

P/N: 79302-0201

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Document identity

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Website

http://www.flir.com

Customer support

http://support.flir.com

Disclaimer

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



Imaging and optical data	
Infrared resolution	464 × 348 pixels
UltraMax (super-resolution)1	In FLIR Tools
NETD	<40 mK @ +30°C (+86°F)
Field of view	24° × 18°
Minimum focus distance	 0.15 m (0.49 ft.) Macro mode 71 μm as option
Minimum focus distance with MSX	0.5 m (1.64 ft.)
Focal length	17 mm (0.67 in.)
Spatial resolution (IFOV)	0.90 mrad/pixel
Available extra lenses	 42° (AutoCal) 14° (AutoCal) 6° (service calibration required)
Lens identification	Automatic
f number	1.3
Image frequency	30 Hz
Focus	Continuous LDMOne-shot LDMOne-shot contrastManual
Field of view match	Yes
Digital zoom	1–6× continuous
Detector data	
Focal plane array/spectral range	Uncooled microbolometer/7.5–14 μm
Detector pitch	17 μm
Image presentation	
Resolution	640 × 480 pixels (VGA)
Surface brightness (cd/m²)	400

^{1.} Not supported when using macro.



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Image presentation		
Screen size	4 in.	
Viewing angle	80°	
Color depth (bits)	24	
Aspect ratio	4:3	
Auto-rotation	Yes	
Touchscreen	Optically bonded PCAP	
Display technology	IPS	
Cover glass material	Dragontrail®	
Programmable buttons	2	
Viewfinder	No	
Image adjustment	Automatic Automatic maximum Automatic minimum Manual	
Image presentation modes		

Image presentation modes	
Infrared image	Yes
Visual image	Yes
MSX	Yes
Picture in picture	Resizable and movable
Gallery	Yes

Measurement		
Camera temperature range	Object temperature range	Accuracy — for ambient temperature +15 to +35°C (+59 to +95°F)
-20 to +120°C (-4 to +248°F)	-20 to +100°C (-4 to +212°F)	±2°C (±3.6°F)
	+100 to +120°C (+212 to +248° F)	±2%
0 to +650°C (+32 to +1202°F)	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to + 650°C (+212 to +1202°F)	±2%
+300 to +1500°C (+572 to +2732°F)	+300 to +1500°C (+572 to +2732°F)	±2%

Measurement analysis	
Spotmeter	3 in live mode
Area	3 in live mode
Automatic hot/cold detection	Automatic maximum/minimum markers within area
Measurement presets	 No measurements Center spot Hot spot Cold spot User preset 1 User preset 2
Difference temperature	Yes
Reference temperature	Yes
Emissivity correction	Yes, variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Yes



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External optics/windows correction Screening O.5°C (0.9°F) accuracy at 37°C (98.6°F) with reference Alarm Color alarm (isotherm) Measurement function alarm Measurement function alarm Audiblevisual alarms (above/below) on any selected measurement function Set-up Color palettes - Iron - Gray - Rainbow - Rai		
Alarm Color alarm (isotherm) Above Balow Interval Condensation (moisture/humidity/dewpoint) Insulation Measurement function alarm Measurement function alarm Audible/visual alarms (above/below) on any selected measurement function Set-up Color palettes Iron Rainbow Rainb	Measurement analysis	
Alarm Color alarm (isotherm) Page 100 Page 101 Page 102 Page 102 Page 103 P	External optics/windows correction	Yes
Color alarm (isotherm) - Above - Below - Interval - Condensation (moisture/humidity/dewpoint) - Insulation - Insulation - Audible/visual alarms (above/below) on any selected measurement function - Iron - Gray - Rainbow - Arctic - Lava - Rainbow HC - Setup commands - Local adaptation of units, language, date, and time formats - Languages - 21 Service functions - Camera software update - Use PC software FLIR Tools - Storage of images - Storage media - Removable memory: SD card - Time lapse (Periodic image storage) - FLIR Tools (using USB cable) - FLIR Tools (using USB cable) - FLIR Tools Mobile (over Wi-Fi) - Image file format - Standard JPEG, measurement data included. Infrared-only mode - Image annotations - Voice - G0 seconds with built-in microphone and speaker (and via Bluetooth) on still images and video - Text - Text from predefined list or soft keyboard on touckscreen - Visual image annotation - Ves - Image sketch - From touchscreen - METERLINK - Wireless connection (Bluetooth) to: - FLIR meters with METERLINK - Area measurement information - Ves - Coardin data automatically added to every still image and first frame in video from built-in GPS - Video recording in camera - Radiometric infrared-video recording - RTRR (.csq) - Non-radiometric infrared-video recording - RADON - Additional and - RERR (.csq) - Non-radiometric infrared-video recording - RADON - Additional - Record - RERR (.csq) - HACON - Radiometric infrared-video recording - RADON - Additional - Record	Screening	
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Set-up Color palettes Iron Gray Rainbow Arctic Lava Rainbow HC Setup commands Local adaptation of units, language, date, and time formats Languages 21 Service functions Camera software update Use PC software FLIR Tools Storage of images Storage media Removable memory: SD card Time lapse (Periodic image storage) 10 seconds to 24 hours (infrared) Remote control operation Using FLIR Tools (using USB cable) FLIR Tools Mobile (over Wi-Fi) Image file format Standard JPEG, measurement data included. Infrared-only mode Image annotations Voice 60 seconds with built-in microphone and speaker (and via Bluetooth) on still images and video Text Text Trext from predefined list or soft keyboard on touchscreen Visual image annotation Ves Image sketch From touchscreen WETERLINK Wireless connection (Bluetooth) to: FLIR meters with METERLINK Area measurement information Ves GPS Location data automatically added to every still image and first frame in video from built-in GPS Video recording in camera Radiometric infrared-video recording RTRR (.csq) Non-radiometric infrared-video recording RTRR (.csq)	Color alarm (isotherm)	Below Interval Condensation (moisture/humidity/dewpoint)
Color palettes Iron Gray Rainbow Arctic Lava Rainbow HC	Measurement function alarm	· · · · · · · · · · · · · · · · · · ·
Setup commands Gray Rainbow Arctic Lava Rainbow HC Local adaptation of units, language, date, and time formats Languages 21 Service functions Camera software update Use PC software FLIR Tools Storage of images Storage media Removable memory: SD card Time lapse (Periodic image storage) Remote control operation FLIR Tools (using USB cable) FLIR Tools (using USB cable) FLIR Tools Mobile (over Wi-Fi) Image file format Standard JPEG, measurement data included. Infrared-only mode Image annotations Voice 60 seconds with built-in microphone and speaker (and via Bluetooth) on still images and video Text Text from predefined list or soft keyboard on touchscreen Visual image annotation Yes Image sketch Yes: on infrared only Sketch METERLINK Wireless connection (Bluetooth) to: FLIR meters with METERLINK Area measurement information Yes Location data automatically added to every still image and first frame in video from built-in GPS Video recording in camera Radiometric infrared-video recording RTRR (.csq) Non-radiometric infrared-video recording H.264 to memory card	Set-up	
Languages 21 Service functions Camera software update Use PC software FLIR Tools Storage of images Storage media Removable memory: SD card Time lapse (Periodic image storage) 10 seconds to 24 hours (infrared) Remote control operation *Using FLIR Tools (using USB cable) FLIR Tools Mobile (over Wi-Fi) Image file format Standard JPEG, measurement data included. Infrared-only mode Image annotations Voice 60 seconds with built-in microphone and speaker (and via Bluetooth) on still images and video Text Text from predefined list or soft keyboard on touchscreen Visual image annotation Yes Image sketch Yes: on infrared only Sketch From touchscreen METERLINK Wireless connection (Bluetooth) to: FLIR meters with METERLINK Area measurement information Yes GPS Location data automatically added to every still image and first frame in video from built-in GPS Video recording in camera Radiometric infrared-video recording RTRR (.csq) Non-radiometric infrared-video recording H.264 to memory card	Color palettes	Gray Rainbow Arctic Lava
Service functions Camera software update Use PC software FLIR Tools Storage of images Storage media Removable memory: SD card Time lapse (Periodic image storage) 10 seconds to 24 hours (infrared) Remote control operation - Using FLIR Tools (using USB cable) - FLIR Tools Mobile (over Wi-Fi) Image file format Standard JPEG, measurement data included. Infrared-only mode Image annotations Voice - 60 seconds with built-in microphone and speaker (and via Bluetooth) on still images and video Text - Text from predefined list or soft keyboard on touchscreen Visual image annotation Yes Image sketch - Yes: on infrared only Sketch - From touchscreen METERLINK - Wireless connection (Bluetooth) to: FLIR meters with METERLINK Area measurement information Yes - Location data automatically added to every still image and first frame in video from built-in GPS Video recording in camera Radiometric infrared-video recording - RTRR (.csq) - Non-radiometric infrared-video recording - H.264 to memory card	Setup commands	
Storage of images Storage media Removable memory: SD card Time lapse (Periodic image storage) 10 seconds to 24 hours (infrared) Remote control operation • Using FLIR Tools (using USB cable) • FLIR Tools Mobile (over Wi-Fi) Image file format Standard JPEG, measurement data included. Infrared-only mode Image annotations Voice 60 seconds with built-in microphone and speaker (and via Bluetooth) on still images and video Text Text from predefined list or soft keyboard on touchscreen Visual image annotation Yes Image sketch Yes: on infrared only Sketch From touchscreen METERLINK Wireless connection (Bluetooth) to: FLIR meters with METERLINK Area measurement information Yes GPS Location data automatically added to every still image and first frame in video from built-in GPS Video recording in camera Radiometric infrared-video recording RTRR (.csq) Non-radiometric infrared-video recording H.264 to memory card	Languages	21
Storage of images Storage media Removable memory: SD card Time lapse (Periodic image storage) 10 seconds to 24 hours (infrared) Remote control operation • Using FLIR Tools (using USB cable) • FLIR Tools Mobile (over Wi-Fi) Image file format Standard JPEG, measurement data included. Infrared-only mode Image annotations Voice 60 seconds with built-in microphone and speaker (and via Bluetooth) on still images and video Text Text from predefined list or soft keyboard on touchscreen Visual image annotation Yes Image sketch Yes: on infrared only Sketch From touchscreen METERLINK Wireless connection (Bluetooth) to: FLIR meters with METERLINK Area measurement information Yes GPS Location data automatically added to every still image and first frame in video from built-in GPS Video recording in camera Radiometric infrared-video recording RTRR (.csq) Non-radiometric infrared-video recording H.264 to memory card	Service functions	
Storage media Removable memory: SD card Time lapse (Periodic image storage) 10 seconds to 24 hours (infrared) - Using FLIR Tools (using USB cable) - FLIR Tools Mobile (over Wi-Fi) Image file format Standard JPEG, measurement data included. Infrared-only mode Image annotations Voice 60 seconds with built-in microphone and speaker (and via Bluetooth) on still images and video Text Text from predefined list or soft keyboard on touchscreen Visual image annotation Yes Image sketch Yes: on infrared only Sketch From touchscreen METERLINK Wireless connection (Bluetooth) to: FLIR meters with METERLINK Area measurement information Yes CPS Location data automatically added to every still image and first frame in video from built-in GPS Video recording in camera Radiometric infrared-video recording RTRR (.csq) Non-radiometric infrared-video recording H.264 to memory card	Camera software update	Use PC software FLIR Tools
Time lapse (Periodic image storage) Remote control operation Periodic control co	Storage of images	
Time lapse (Periodic image storage) Remote control operation Periodic control co	Storage media	Removable memory: SD card
Image file format Standard JPEG, measurement data included. Infrared-only mode Image annotations Voice 60 seconds with built-in microphone and speaker (and via Bluetooth) on still images and video Text Text from predefined list or soft keyboard on touchscreen Visual image annotation Yes Image sketch Yes: on infrared only Sketch From touchscreen METERLINK Wireless connection (Bluetooth) to: FLIR meters with METERLINK Area measurement information Yes Cocation data automatically added to every still image and first frame in video from built-in GPS Video recording in camera Radiometric infrared-video recording RTRR (.csq) Non-radiometric infrared-video recording H.264 to memory card	Time lapse (Periodic image storage)	10 seconds to 24 hours (infrared)
Image annotations Voice 60 seconds with built-in microphone and speaker (and via Bluetooth) on still images and video Text Text from predefined list or soft keyboard on touchscreen Visual image annotation Yes Image sketch Yes: on infrared only Sketch From touchscreen METERLINK Wireless connection (Bluetooth) to: FLIR meters with METERLINK Area measurement information Yes GPS Location data automatically added to every still image and first frame in video from built-in GPS Video recording in camera Radiometric infrared-video recording RTRR (.csq) Non-radiometric infrared-video recording H.264 to memory card	Remote control operation	
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Text (and via Bluetooth) on still images and video Text from predefined list or soft keyboard on touchscreen Visual image annotation Yes Image sketch Yes: on infrared only Sketch From touchscreen METERLINK Wireless connection (Bluetooth) to: FLIR meters with METERLINK Area measurement information Yes GPS Location data automatically added to every still image and first frame in video from built-in GPS Video recording in camera Radiometric infrared-video recording RTRR (.csq) Non-radiometric infrared-video recording H.264 to memory card	Image annotations	
touchscreen Visual image annotation Yes Image sketch Yes: on infrared only Sketch From touchscreen METERLINK Wireless connection (Bluetooth) to: FLIR meters with METERLINK Area measurement information Yes GPS Location data automatically added to every still image and first frame in video from built-in GPS Video recording in camera Radiometric infrared-video recording Non-radiometric infrared-video recording H.264 to memory card	Voice	60 seconds with built-in microphone and speaker (and via Bluetooth) on still images and video
Image sketch Sketch From touchscreen Wireless connection (Bluetooth) to: FLIR meters with METERLiNK Area measurement information GPS Location data automatically added to every still image and first frame in video from built-in GPS Video recording in camera Radiometric infrared-video recording Non-radiometric infrared-video recording H.264 to memory card	Text	
Sketch From touchscreen METERLINK Wireless connection (Bluetooth) to: FLIR meters with METERLINK Area measurement information Yes GPS Location data automatically added to every still image and first frame in video from built-in GPS Video recording in camera Radiometric infrared-video recording Non-radiometric infrared-video recording H.264 to memory card	Visual image annotation	Yes
METERLINK Wireless connection (Bluetooth) to: FLIR meters with METERLINK Area measurement information Yes Location data automatically added to every still image and first frame in video from built-in GPS Video recording in camera Radiometric infrared-video recording RTRR (.csq) Non-radiometric infrared-video recording H.264 to memory card	Image sketch	Yes: on infrared only
FLIR meters with METERLiNK Area measurement information Yes Location data automatically added to every still image and first frame in video from built-in GPS Video recording in camera Radiometric infrared-video recording Non-radiometric infrared-video recording H.264 to memory card		From touchscreen
Area measurement information Yes GPS Location data automatically added to every still image and first frame in video from built-in GPS Video recording in camera Radiometric infrared-video recording Non-radiometric infrared-video recording H.264 to memory card	METERLINK	·
GPS Location data automatically added to every still image and first frame in video from built-in GPS Video recording in camera Radiometric infrared-video recording RTRR (.csq) Non-radiometric infrared-video recording H.264 to memory card	Anna anna anna ann àirte	
Video recording in camera Radiometric infrared-video recording Non-radiometric infrared-video recording H.264 to memory card		Location data automatically added to every still
Radiometric infrared-video recording RTRR (.csq) Non-radiometric infrared-video recording H.264 to memory card		image and first frame in video from built-in GPS
Non-radiometric infrared-video recording H.264 to memory card	Video recording in camera	
	Radiometric infrared-video recording	RTRR (.csq)
Visual video recording H.264 to memory card	Non-radiometric infrared-video recording	H.264 to memory card
	Visual video recording	H.264 to memory card



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Video streaming	1
	0
Radiometric infrared-video streaming (compressed)	Over UVC
Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)	 H.264 (AVC) over RTSP (Wi-Fi) MPEG4 over RTSP (Wi-Fi) MJPEG over UVC and RTSP (Wi-Fi)
Visual video streaming	Yes
Digital camera	
Resolution	5 MP with LED light
Focus	Fixed
Field of view	53° × 41°
Video lamp	Built-in LED light
Laser pointer	
Laser alignment	Position is automatically displayed on the infrared image
Laser distance meter	Activated by dedicated button
Laser	Class 2, 0.05–40 m (0.16–131 ft.) ±1% of measured distance
Data communication interfaces	
Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
Audio	Microphone and speaker for voice annotation of images
USB	USB Type-C: data transfer/video/power
USB standard	USB 2.0 High Speed
Video out	DisplayPort
Video connector type	DisplayPort over USB Type-C
Radio	
Operating frequency	Bluetooth + EDR/LE: 2402-2480 MHz
	WLAN 2.4 GHz: 2412-2462 MHz
	WLAN 5 GHz: 5150–5350 MHz (DFS: only slave mode)
	Note that frequency band 5150–5350 MHz is for indoor use only, see national regulations.
RF output (EIRP)	Bluetooth + EDR/LE: < 10 dBm
	WLAN: < 17 dBm
Antenna	Integrated PIFA antenna (gain: maximum 1.4 dBi)
Power system	
Battery type	Rechargeable Li-ion battery
Battery voltage	3.6 V
Battery operating time	> 4 hours at 25°C (68°F) with typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Charging time (using two-bay charger)	3.5 h to 90% capacity, on-screen indicator
	•



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Power system	
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC (50/60 Hz) or 12 V from a vehicle (cable with standard plug, optional)
Power management	Automatic shut-down and sleep mode
Environmental data	
Operating temperature range	-15 to +50°C (5-122°F)
Storage temperature range	-40 to +70°C (-40 to 158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 hours, 95% relative humidity, 25–40°C (77–104°F)/2 cycles
EMC	 ETSI EN 301 489-1 (radio) ETSI EN 301 489-17 EN 61000-6-2 (immunity) EN 61000-6-3 (emission) FCC 47 CFR Part 15 Class B (emission)
Radio spectrum	 ETSI EN 300 228 FCC Part 15.249 RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25g (IEC 60068-2-27)
Vibration	2g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Physical data	
Weight (including battery)	1.3 kg (2.9 lb.)
Size (L × W × H)	 Lens vertical: 140 × 201.3 × 84.1 mm (5.5 × 7.9 × 3.3 in.) Lens horisontal: 140 × 201.3 × 167.3 mm (5.5 × 7.9 × 6.6 in.)
Battery weight	195 g (6.89 oz.)
Battery size (L × W × H)	59 × 66 × 94 mm (2.3 × 2.6 × 3.7 in.)
Tripod mounting	UNC 1/4"-20
Housing material	PCABS with TPE, magnesium
Color	Black
Warranty and service	
Warranty	http://www.flir.com/warranty/



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Shipping information	
Packaging, type	Cardboard box
Packaging, contents	Accessory box I: Power supply for battery charger Power supply, 15 W/3 A Printed documentation SD card (8 GB) USB 2.0 A to USB Type-C cable USB Type-C to HDMI and PD adapter USB Type-C to USB Type-C cable (USB 2.0 standard) Accessory box II: Lens cap strap Lens cleaning cloth Neck strap Battery (2 ea) Battery (2 ea) Battery charger FLIR Tools+ license card Hard transport case Infrared camera with lens Lens cap, front Lens cap, front Lens cap, front and rear (only for extra lenses)
Packaging, weight	5.8 kg (12.8 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	Sweden: 7332558012970 Estonia: 4743254003262
UPC-12	845188014667
Country of origin	Sweden and/or Estonia

Supplies and accessories:

- T130337ACC; Calibration target
- T199588; Lens 14° + case
- T199589; Lens 24° + case
- T199590; Lens 42° + case
- T300095; Lens 6° with case
- T911630ACC; Power supply for camera, 15 W/3 A
- T911631ACC; USB 2.0 A to USB Type-C cable, 0.9 m
- T911633ACC; Power supply for battery charger
- T911705ACC; USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m
- T911706ACC; Car adapter 12 V
- T911845ACC; USB Type-C to HDMI and PD adapter
- T911846ACC; USB 2.0 A to USB Type-C with Power supply
- T199300ACC; Battery
- · T199610; Battery charger
- T199601; Hand strap and neck strap
- T199347ACC; Hard transport case
- T199609; Option, Macro mode 71/103 μm for 24°
- T300030; Option, No radio
- T198495; Pouch
- T197771ACC; Bluetooth Headset
- T198583; FLIR Tools+ (download card incl. license key)
- T300083; FLIR Thermal Studio (incl. license key/QR code)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
 4220499; FLIR Research Studio 1 Year Subscription (online activation)
- 4220500; FLIR Research Studio Perpetual License (online activation)

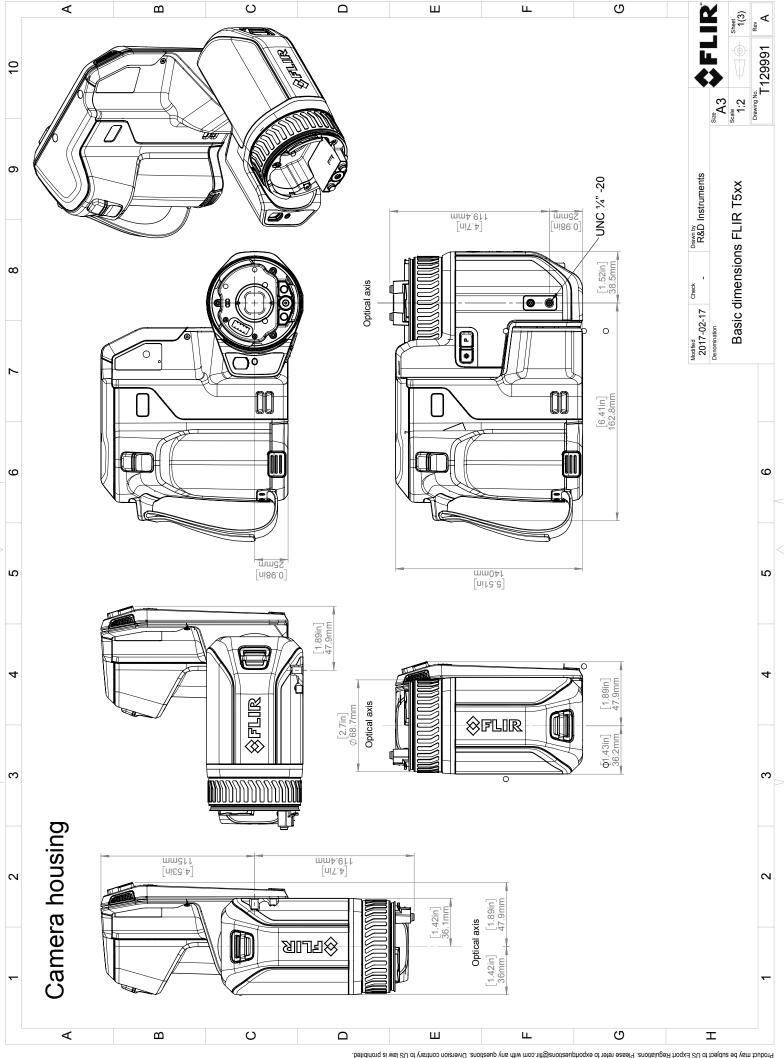
FLIR°

FLIR T540 24°

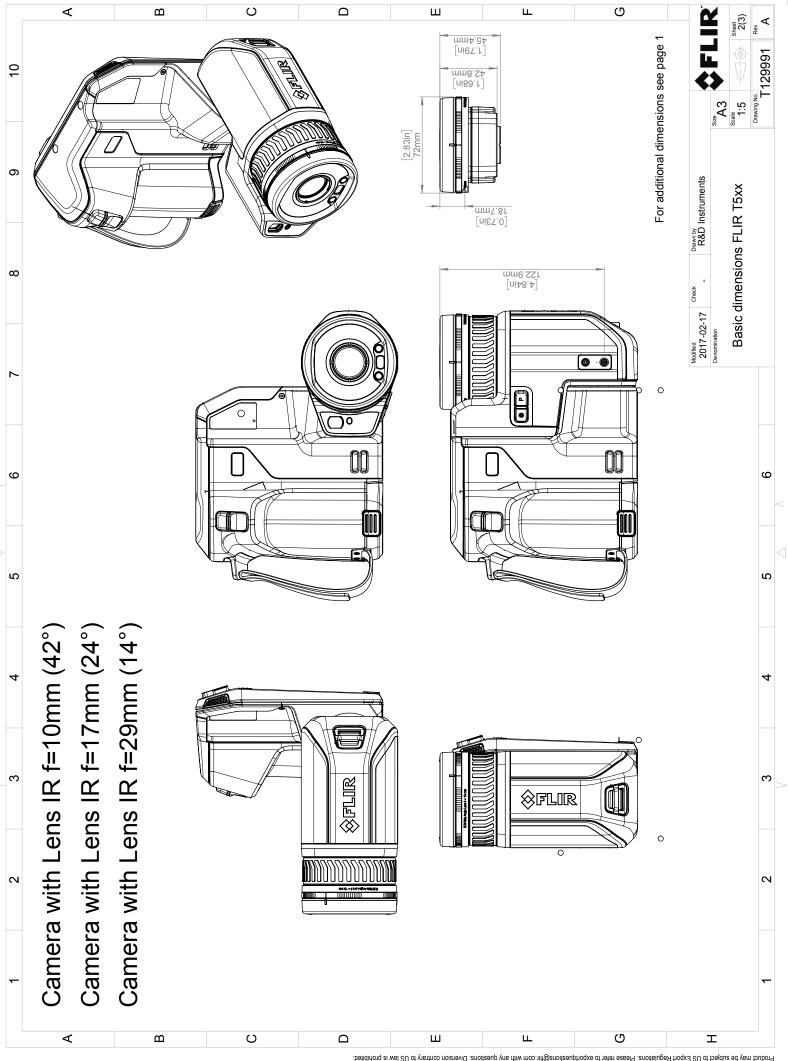
P/N: 79302-0201

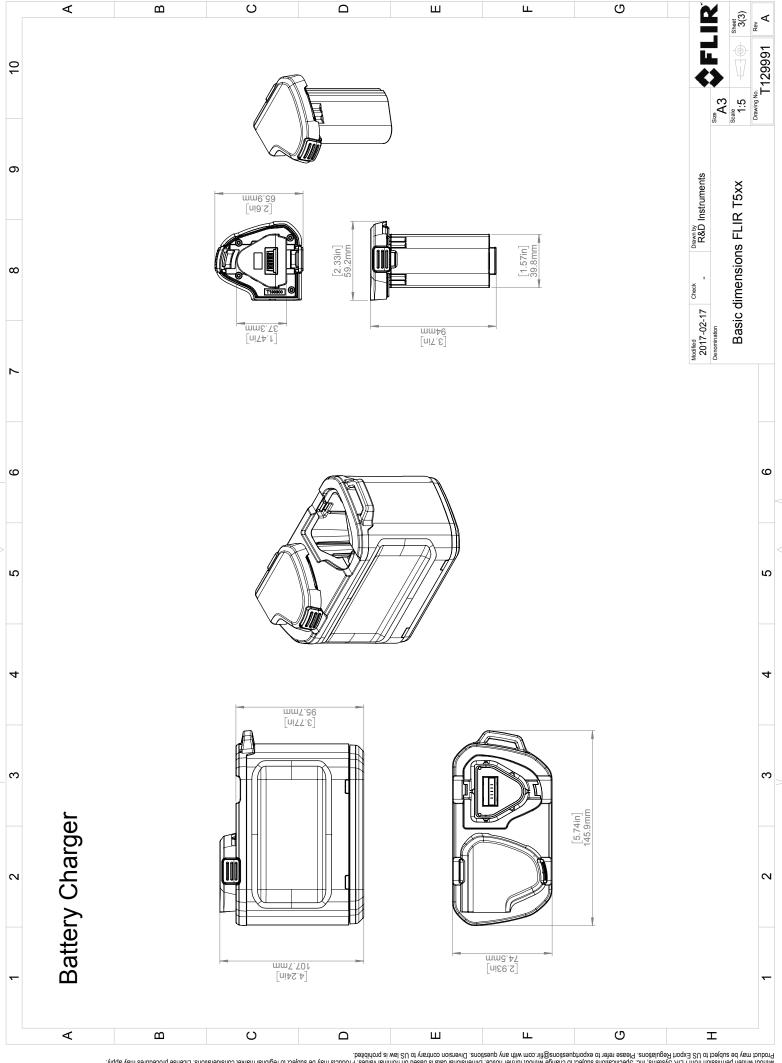
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- 4220646; FLIR Research Studio Perpetual License (USB dongle)
- INST-EW-0155; Extended Warranty 1 Year for A3xxf, T540, T600/bx, T610, T840
 INST-EWGM-0165; Premium Service Package for T540, T600/bx, T610, T840
- INST-GM-0150; General Maintenance Package for T540, T6xx, T840



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February 2, 2019

Täby, Sweden

AQ320246

CE Declaration of Conformity – EU Declaration of Conformity

Product: FLIR T5XX-, T8XX- and GF7X-series Name and address of the manufacturer: FLIR Systems AB PO Box 7376 SE-187 15 Täby, Sweden

This declaration of conformity is issued under the sole responsibility of the manufacturer. The object of the declaration: FLIR T5XX-, T8XX- and GF7X-series (Product Model Name FLIR-T8210). The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

Directive	2012/19/EU	Waste electrical and electric equipment
Directive	2014/53/EU	Radio Equipment Directive (RED)
Directive	1999/519/EC	Limitation of exposure to electromagnetic fields (SAR)
Directive	2011/65/EU	RoHS and 2015/830/EU

Standards:

Stalldalds.		
EMC Radio:	ETSI EN 301 489-1 + -17	EMC for radio, broadband data transmission
Emission:	EN 61000-6-3/A1:2011	EMC – Generic standards
Immunity:	EN 61000-6-2:2005	Electromagnetic Compability Generic
	EN 301489-1:2016 v2.1.0	ERM – EMC for radio equipment
	EN 301489-17:2012 v2.2.1	ERM – EMC Wideband data
Laser:	EN 60825-1	Safety of laser products
Radio:	ETSI EN 300 328 v2.1.1	Harmonized EN covering essential
		requirements of the R&TTE Directive
	ETSI EN 301 893 v.2.1.1	5GHz WLAN
	EN 303 413 v1.1.0	Radio Spectrum Efficiency (gps)
SAR:	EN 50566:2013/AC:2014	Handheld and body mounted wireless

SAR:

EN 50566:2013/AC:2014

EN 62209-02:2010

Safety:

IEC 60950-1:2005+A1:2009+ A2:2013 EN 60950-1:2006+

A11:2009+AC:2011+A12:2011

RoHS:

EN 50581:2012

Technical documentation

Handheld and body mounted wireless

Information technology equipment

FLIR Systems AB Quality Assurance

Lea Dabiri

Quality Manager