

P/N: 89206-0101

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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	640 × 480 pixels	
UltraMax (super-resolution) ¹	Yes	
NETD	 <30 mK, 42° @ +30°C (+86°F) <40 mK, 24° @ +30°C (+86°F) <50 mK, 14° @ +30°C (+86°F) 	
Field of view	 42° × 32° 24° × 18° 14° × 10° 	
Minimum focus distance	 0.15 m (0.49 ft.), 42° 0.15 m (0.49 ft.), 24° 1.0 m (3.28 ft.), 14° Macro mode 50 μm as option, 24° 	
Minimum focus distance with MSX	 0.65 m (2.13 ft.), 42° 0.5 m (1.64 ft.), 24° 1.0 m (3.28 ft.), 14° 	
Focal length	 10 mm (0.39 in.), 42° 17 mm (0.67 in.), 24° 29 mm (1.41 in.), 14° 	
Spatial resolution (IFOV)	 1.2 mrad/pixel, 42° 0.7 mrad/pixel, 24° 0.4 mrad/pixel, 14° 	
Available extra lenses	6° (service calibration required)	
Lens identification	Automatic	
f number	 1.1, 42° 1.3, 24° 1.5, 14° 	
Image frequency	30 Hz	

^{1.} Not supported when using macro.



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Imaging and optical data				
Focus		Continuous LDM One-shot LDM One-shot contrast Manual		
Field of view match	Field of view match			
Digital zoom		1-8× continuous	5	
Detector data				
Focal plane array/spectral range		Uncooled microbolometer/7.5–14 μm		
Detector pitch	Detector pitch		12 μm	
Image presentation				
Resolution (display)		640 × 480 pixels	s (VGA)	
Surface brightness (cd/m ²)		400		
Screen size		4 in.		
Viewing angle		80°		
Color depth (bits)		24		
Aspect ratio	Aspect ratio		4:3	
Auto-rotation		Yes		
Touchscreen		Optically bonded PCAP		
Display technology		IPS		
Cover glass material		Dragontrail®		
Programmable buttons		2		
Viewfinder	Viewfinder		Yes	
Image adjustment		AutomaticAutomatic maximumAutomatic minimumManual		
Image presentation modes	Image presentation modes			
Infrared image		Yes		
Visual image	Visual image		Yes	
MSX		Yes		
Picture in picture		Resizable and movable		
Gallery		Yes		
Measurement				
Camera temperature range	Object temperat	ure 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 (+3	2 to +212°F)	±2°C (±3.6°F)	
+100 to + 650°C +1202°F)		C (+212 to	±2%	
+300 to +2000°C (+572 to +3632°F)	+300 to +2000°C (+572 to +3632°F)		±2%	



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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	
External optics/windows correction	Yes	
Screening	0.5°C (0.9°F) accuracy at 37°C (98.6°F) with reference	
Alarm		
Color alarm (isotherm)	 Above Below Interval Condensation (moisture/humidity/dewpoint) Insulation 	
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function	
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	Using USB cable or SD card	
Storage of images		
	Removable memory: SD card	
Storage media	Removable memory: SD card	
Storage media Time lapse (Periodic image storage)	Removable memory: SD card 10 seconds to 24 hours (infrared)	
Time lapse (Periodic image storage)	10 seconds to 24 hours (infrared)	
Time lapse (Periodic image storage) Remote control operation	10 seconds to 24 hours (infrared) Using USB cable or Wi-Fi Standard JPEG, measurement data included.	
Time lapse (Periodic image storage) Remote control operation Image file format	10 seconds to 24 hours (infrared) Using USB cable or Wi-Fi Standard JPEG, measurement data included.	
Time lapse (Periodic image storage) Remote control operation Image file format Image annotations	10 seconds to 24 hours (infrared) Using USB cable or Wi-Fi Standard JPEG, measurement data included. Infrared-only mode. 60 seconds with built-in microphone and speaker	



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Image annotations		
Image sketch	Yes: on infrared only	
Sketch	From touchscreen	
METERLINK	Wireless connection (Bluetooth) to:	
	FLIR meters with METERLiNK	
Laser distance meter information	Yes	
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	
Visual video recording	H.264 to memory card	
Video streaming		
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.) \pm 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	
	USB 2.0 High Speed	
Video out	DisplayPort	



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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 (77°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
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)	1.4 kg (3.1 lb.)
Size (L \times W \times H)	 Lens vertical: 150.5 × 201.3 × 84.1 mm (5.9 × 7.9 × 3.3 in.) Lens horisontal: 150.5 × 201.3 × 167.3 mm (5.9 × 7.9 × 6.6 in.)
Battery weight	195 g (6.89 oz.)
Battery size (L \times W \times H)	59 × 66 × 94 mm (2.3 × 2.6 × 3.7 in.)
Tripod mounting	UNC ¼″-20



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Physical data		
Housing material	PCABS with TPE, magnesium	
Color	Black	
Warranty and service		
Warranty	http://www.flir.com/warranty/	
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 Small eyecup Battery (2 ea) Battery charger Extra lens, 14° Extra lens, 42° FLIR Tools+ license card Hard transport case Infrared camera with lens Lens cap, front and rear (only for extra lenses) 	
Packaging, weight	6.5 kg (14.3 lb.)	
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)	
EAN-13	7332558024973	
UPC-12	845188020729	
Country of origin	Sweden	

Supplies & accessories:

- T199300ACC; Battery
- T199610; Battery charger
- T199347ACC; Hard transport case
- T300030; Option, No radio
- T130531ACC; Large eyecup
- T300188; Hand strap and neck strap
- + T199609; Option, Macro mode 71/103 μm for 24°
- T850105; FLIR Inspection Route Camera Option
- 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

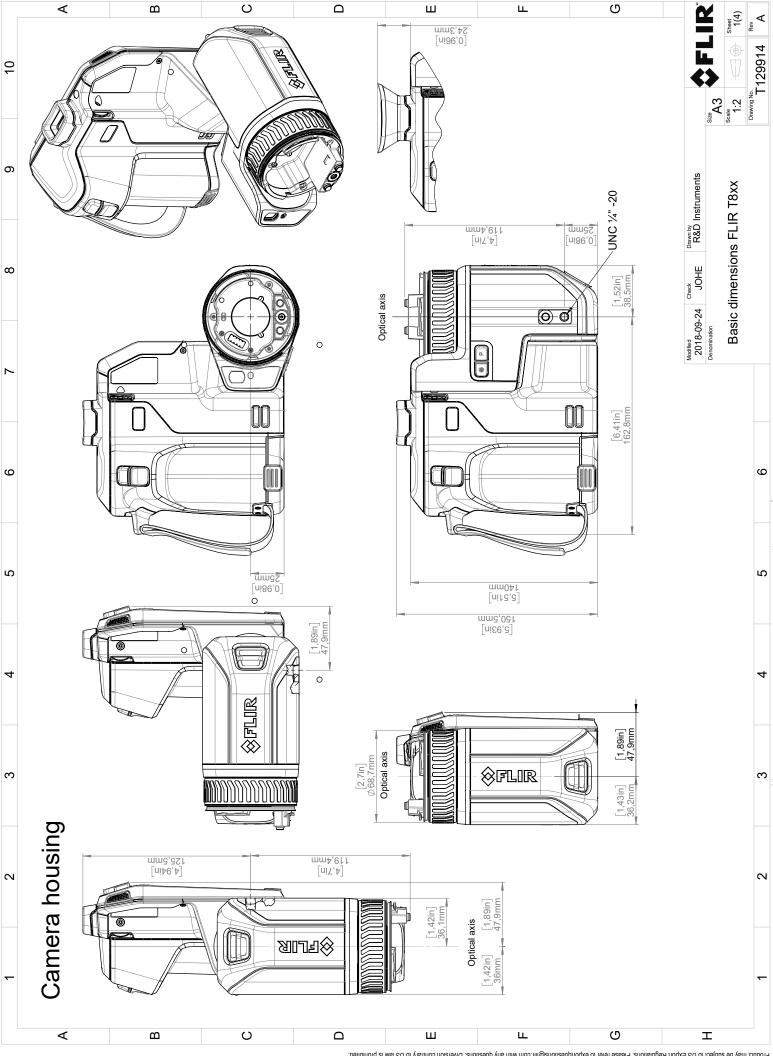


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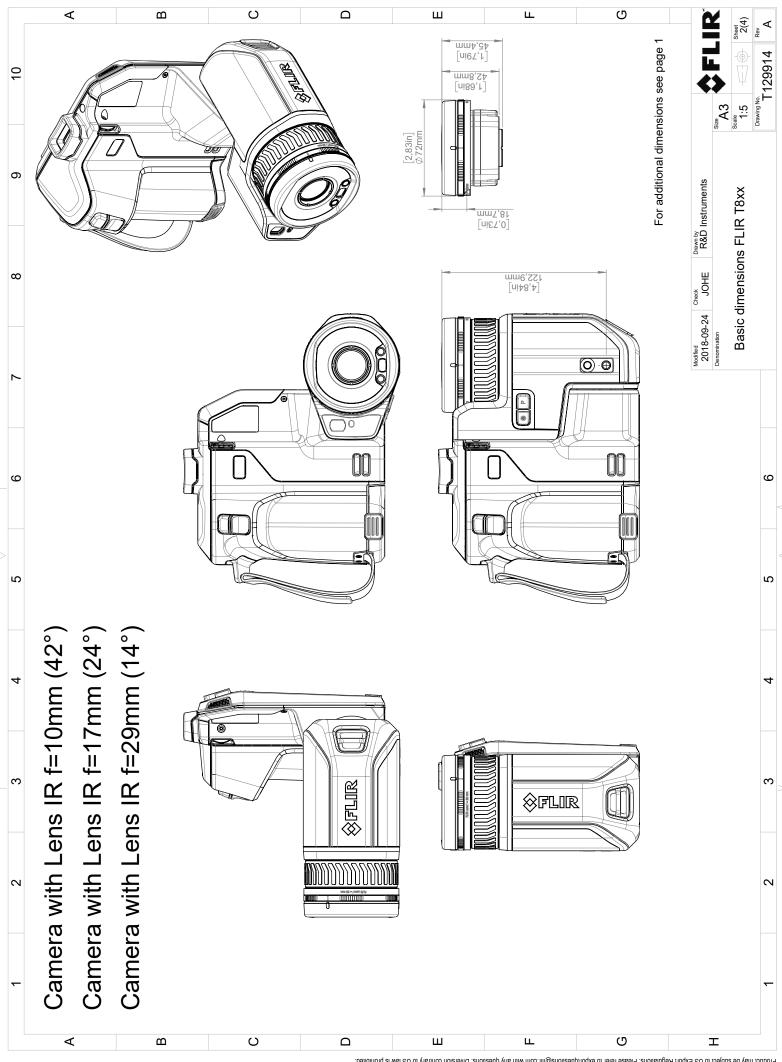
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- T911846ACC; USB 2.0 A to USB Type-C with Power supply
- T198495; Pouch
- T197771ACC; Bluetooth Headset
- T300244; FLIR Route Creator Plugin for FLIR Thermal Studio Pro, 1 Year Subscription
- T300243; FLIR Thermal Studio Pro, 1 Year Subscription
- T300083; FLIR Thermal Studio Pro, Perpetual license
- T198583; FLIR Tools+ (download card incl. license key)
- 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)
- INST-EW-0155; Extended Warranty 1 Year for A3xxf, T540, T600/bx, T610, T840, T860
- INST-EWGM-0165; Premium Service Package for T540, T600/bx, T610, T840, T860
- INST-GM-0150; General Maintenance Package for T540, T6xx, T840, T860

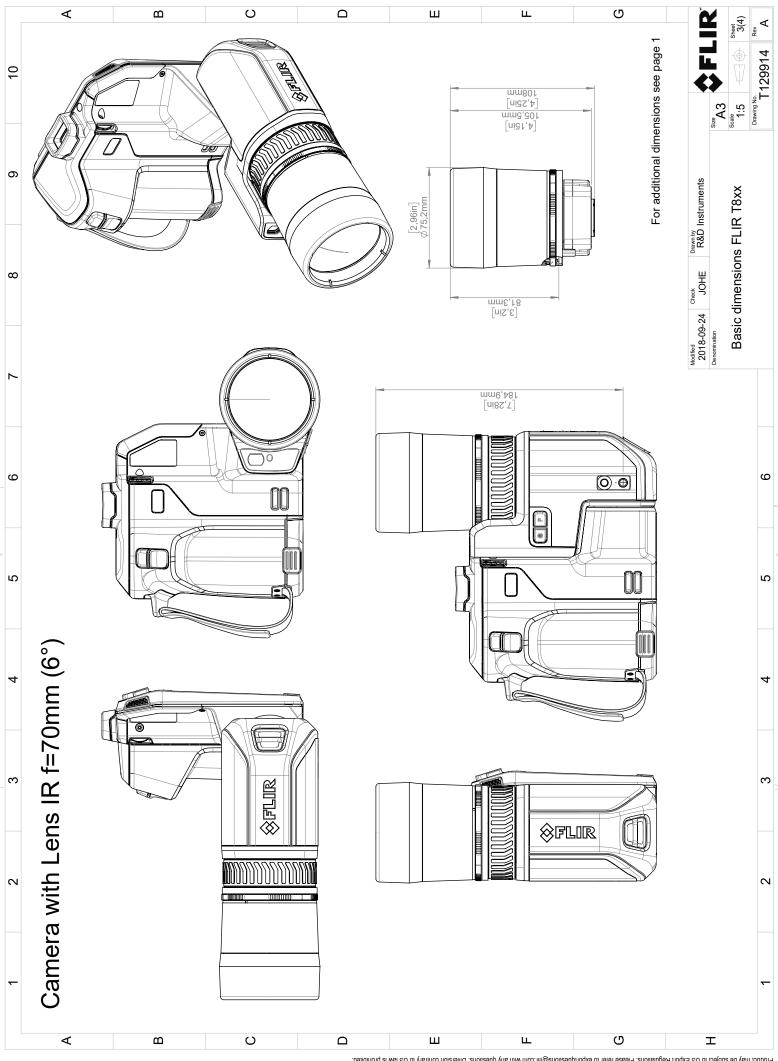
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The World's Sixth Sense"

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:

Directives:

Directive20Directive19	14/53/EU F 99/519/EC L	Waste electrical and electric equipment Radio Equipment Directive (RED) imitation of exposure to electromagnetic fields (SAR) RoHS and 2015/830/EU
Emission: EN Immunity: EN EN	SI EN 301 489-1 + -17 61000-6-3/A1:2011 61000-6-2:2005 301489-1:2016 v2.1.0 301489-17:2012 v2.2.	
Radio: ETS ETS EN	60825-1 SI EN 300 328 v2.1.1 SI EN 301 893 v.2.1.1 303 413 v1.1.0	Safety of laser products Harmonized EN covering essential requirements of the R&TTE Directive 5GHz WLAN Radio Spectrum Efficiency (gps)
EN	50566:2013/AC:2014 62209-02:2010	Handheld and body mounted wireless Handheld and body mounted wireless
A2:	C60950-1:2005+A1:200 :2013 EN 60950-1:2006 1:2009+AC:2011+A12:2	5+
RoHS: EN	50581:2012	Technical documentation

FLIR Systems AB Quality Assurance

ta doon

Lea Dabiri Quality Manager