

P/N: 82506-0201

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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	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 71 μm as option to 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)	 1.66 mrad/pixel, 42° 0.90 mrad/pixel, 24° 0.52 mrad/pixel, 14°
Available extra lenses	6° (service calibration required)
Lens identification	Automatic
f number	 1.1, 42° 1.3, 24° 1.5, 14°

^{1.} Not supported when using macro.

1 (11) www.flir.com



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Imaging and optical data				
Image frequency		30 Hz		
Focus		Continuous LDM One-shot LDM One-shot contrast Manual		
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 (display)		640 × 480 pixels	s (VGA)	
Surface brightness (cd/m²)		400		
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		Yes		
Image adjustment		Automatic Automatic m Automatic m Manual		
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 temperature range		Accuracy — for ambient temperature +15 to +35°C (+59 to +95°F)	
-20 to +120°C (-4 to +248°F)		–4 to +212°F)	±2°C (±3.6°F)	
	+100 to +120°C F)	(+212 to +248°	±2%	



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Measurement				
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 +1202°F)	C (+212 to	±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 hot/cold detection		Automatic maximum/minimum markers within area	
Measurement presets		No measure Center spot Hot spot Cold spot User preset User preset	1	
Difference temperature		Yes		
Reference temperature		Yes		
Emissivity correction		Yes, variable from materials list	om 0.01 to 1.0 or selected from	
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) Measurement function alarm		Above Below Interval Condensation (moisture/humidity/dewpoint) Insulation Audible/visual alarms (above/below) on any		
Measurement function alarm			rement function	
Set-up				
Color palettes		Iron Gray Rainbow Arctic Lava Rainbow HO	>	
Setup commands		Local adaptatio time formats	n of units, language, date, and	

Service functions	
Camera software update	Using USB cable or SD card

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Languages



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	-
Storage of images	
Storage media	Removable memory: SD card
Time lapse (Periodic image storage)	10 seconds to 24 hours (infrared)
Remote control operation	Using USB cable or 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
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.) ±1% of measured distance



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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	1
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
	3.6 V
Battery voltage	
Battery voltage Battery operating time	> 4 hours at 25°C (68°F) with typical use
Battery operating time	> 4 hours at 25°C (68°F) with typical use In camera (AC adapter or 12 V from a vehicle) or
Battery operating time Charging system	> 4 hours at 25°C (68°F) with typical use In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Battery operating time Charging system Charging time (using two-bay charger)	> 4 hours at 25°C (68°F) with typical use In camera (AC adapter or 12 V from a vehicle) or two-bay charger 3.5 h to 90% capacity, on-screen indicator 0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°
Battery operating time Charging system Charging time (using two-bay charger) Charging temperature	> 4 hours at 25°C (68°F) with typical use In camera (AC adapter or 12 V from a vehicle) or two-bay charger 3.5 h to 90% capacity, on-screen indicator 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) AC adapter 90–260 V AC (50/60 Hz) or 12 V from
Battery operating time Charging system Charging time (using two-bay charger) Charging temperature External power operation	> 4 hours at 25°C (68°F) with typical use In camera (AC adapter or 12 V from a vehicle) or two-bay charger 3.5 h to 90% capacity, on-screen indicator 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) AC adapter 90–260 V AC (50/60 Hz) or 12 V from a vehicle (cable with standard plug, optional)
Battery operating time Charging system Charging time (using two-bay charger) Charging temperature External power operation Power management	> 4 hours at 25°C (68°F) with typical use In camera (AC adapter or 12 V from a vehicle) or two-bay charger 3.5 h to 90% capacity, on-screen indicator 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) AC adapter 90–260 V AC (50/60 Hz) or 12 V from a vehicle (cable with standard plug, optional)
Battery operating time Charging system Charging time (using two-bay charger) Charging temperature External power operation Power management Environmental data	> 4 hours at 25°C (68°F) with typical use In camera (AC adapter or 12 V from a vehicle) or two-bay charger 3.5 h to 90% capacity, on-screen indicator 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) AC adapter 90–260 V AC (50/60 Hz) or 12 V from a vehicle (cable with standard plug, optional) Automatic shut-down and sleep mode
Battery operating time Charging system Charging time (using two-bay charger) Charging temperature External power operation Power management Environmental data Operating temperature range	> 4 hours at 25°C (68°F) with typical use In camera (AC adapter or 12 V from a vehicle) or two-bay charger 3.5 h to 90% capacity, on-screen indicator 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) AC adapter 90–260 V AC (50/60 Hz) or 12 V from a vehicle (cable with standard plug, optional) Automatic shut-down and sleep mode



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Environmental data		
Radio spectrum	ETSI EN 300 228FCC Part 15.249RSS-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 × W × 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 × 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/	
Shipping information		
Packaging, type	Cardboard box	
Packaging, type Packaging, contents	Cardboard box 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° FILIR Tools+ license card Hard transport case Infrared camera with lens Lens cap, front Lens cap, front and rear (only for extra lenses)	
	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	



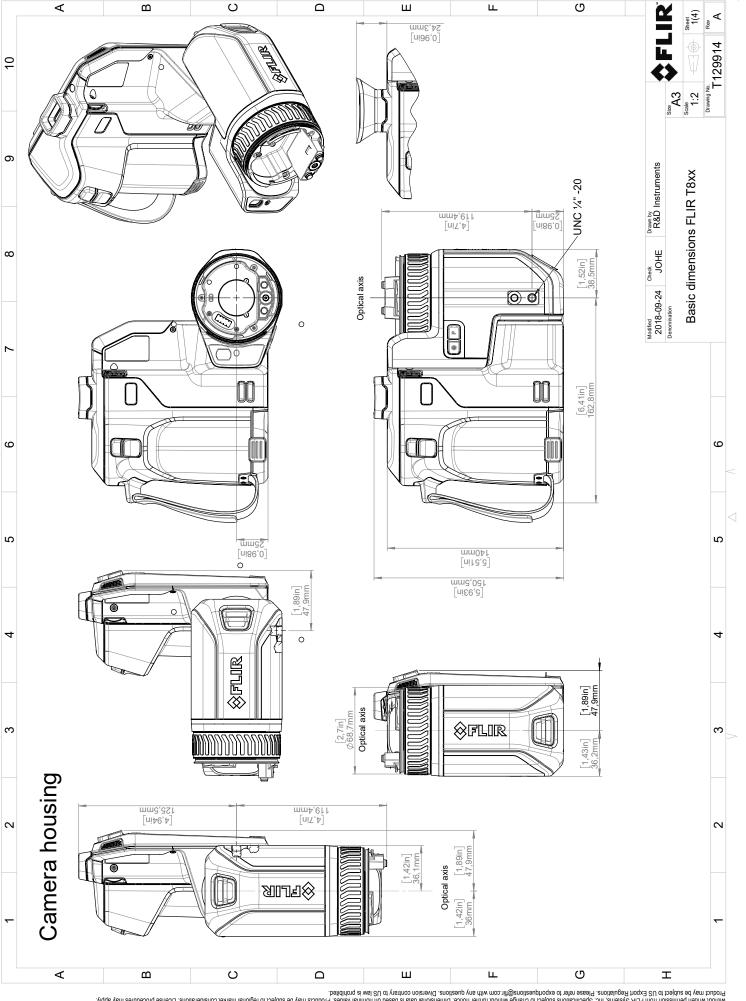
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Shipping information	
EAN-13	7332558023563
UPC-12	845188018900
Country of origin	Sweden

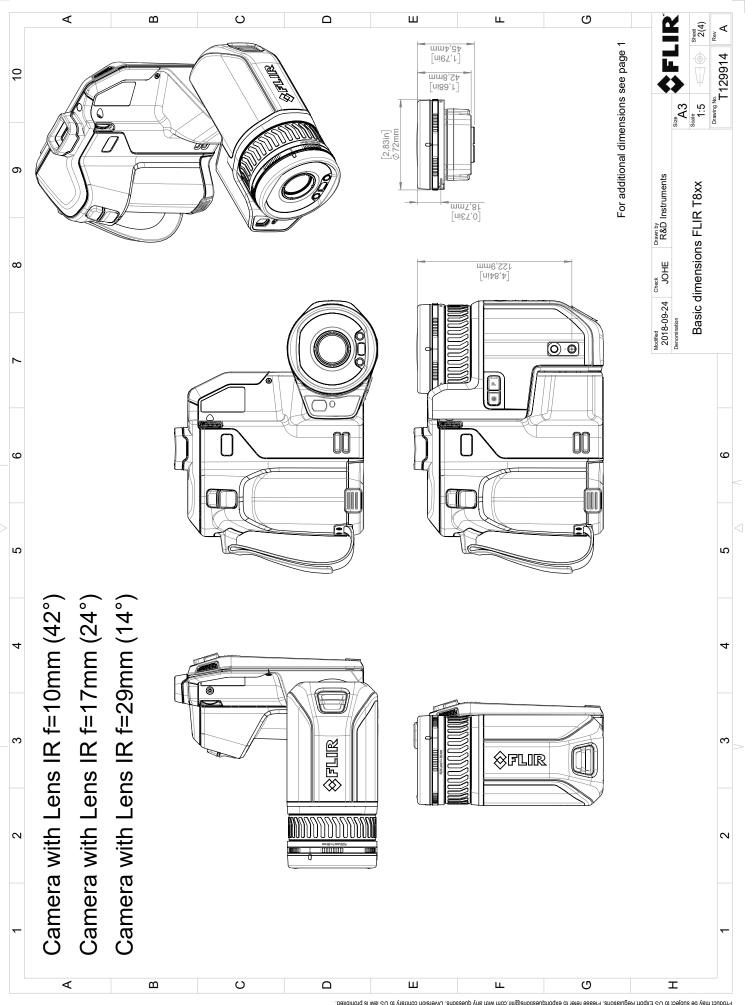
Supplies & accessories:

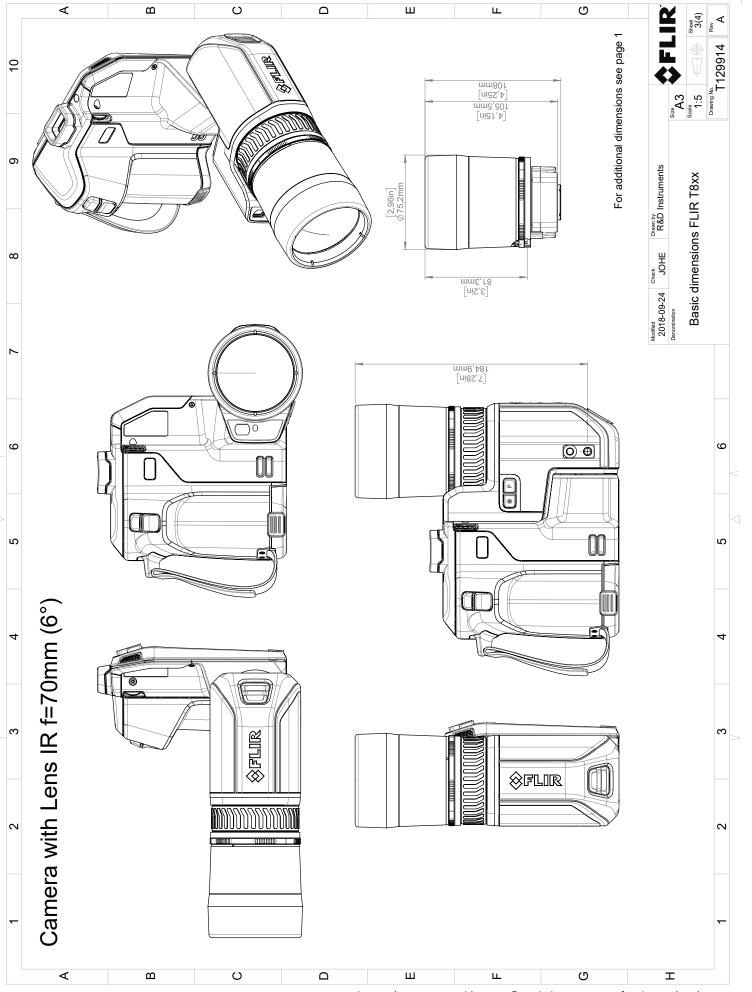
- T199300ACC; Battery
- T199610; Battery charger
- T199347ACC; Hard transport case
- T300030; Option, No radio
- T130531ACC; Large eyecup
- T300188; Hand strap and neck strap
- T199609; Option, Macro mode 71/103 μm for 24°
- T850105; FLIR Inspection Route Camera Option
- T130337ACC; Calibration target
- 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
- 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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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:

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:

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
Lacor	EN 6002E 1	Cafateraflasson

Laser:

SAR:

Safety:

RoHS:

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)

EN 50566:2013/AC:2014

EN 62209-02:2010

EN 50581:2012

Handheld and body mounted wireless Handheld and body mounted wireless

IEC 60950-1:2005+A1:2009+

A2:2013 EN 60950-1:2006+

Information technology equipment

A11:2009+AC:2011+A12:2011

Technical documentation

FLIR Systems AB Quality Assurance

Lea Dabiri

Quality Manager