

P/N: 79302-0201

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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	<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	• 42° • 14°
Lens identification	Automatic
f number	 1.1, 42° 1.3, 24° 1.5, 14°

^{1.} Not supported when using macro.

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Imaging and optical data				
Image frequency		30 Hz		
Focus		Continuous I One-shot LD One-shot co Manual	M	
Field of view match		Yes		
Digital zoom		1–6× continuous	S	
Detector data				
Focal plane array/spectral range		Uncooled microbolometer/7.5–14 μm		
Detector pitch		17 μm		
Image presentation				
Resolution		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		No		
Image adjustment		Automatic Automatic maximum Automatic minimum Manual		
Image presentation modes				
Infrared image		Yes		
Visual image		Yes		
MSX		Yes		
Picture in picture		Resizable and movable		
Gallery	ery		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 +24 F)		±2%	



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Measurement			
0 to +650°C (+32 to +1202°F)	0 to +100°C (+3		±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°(+2732°F)	C (+572 to	±2%
Measurement analysis			
Spotmeter		3 in live mode	
Area		3 in live mode	
Automatic hot/cold detection		Automatic maxi	mum/minimum markers within
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	

Use PC software FLIR Tools

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Service functions

Camera software update



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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 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
Visual video recording	H.264 to memory card
Video streaming	
Radiometric infrared-video streaming (compressed)	Over UVC or RTSP (Wi-Fi)
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	
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
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)



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Environmental data Radio spectrum Encapsulation II	• ETSI EN 300 228 • FCC Part 15.249
Encapsulation II	RSS-247 Issue 2
•	P 54 (IEC 60529)
Shock 2	25g (IEC 60068-2-27)
Vibration 2	2g (IEC 60068-2-6)
Safety E	EN/UL/CSA/PSE 60950-1
Physical data	
Weight (including battery) 1	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 1	195 g (6.89 oz.)
Battery size $(L \times W \times H)$ 5	$59 \times 66 \times 94 \text{ mm } (2.3 \times 2.6 \times 3.7 \text{ in.})$
Tripod mounting U	JNC 1/4"-20
Housing material F	PCABS with TPE, magnesium
Color	Black
Warranty and service	
Warranty	nttp://www.flir.com/warranty/
Shipping information	
Packaging, type C	Cardboard box
Packaging, contents •	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, 1.0 m USB Type-C to HDMI adapter, standard specification UH311 USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m Accessory box II: Lanyard strap, battery charger Lens cap strap Lens cleaning cloth Neck strap Battery (2 ea) Battery charger Hard transport case Infrared camera with lens
•	 Lens cap, front and rear (only for extra lenses)
	5.8 kg (12.8 lb.)

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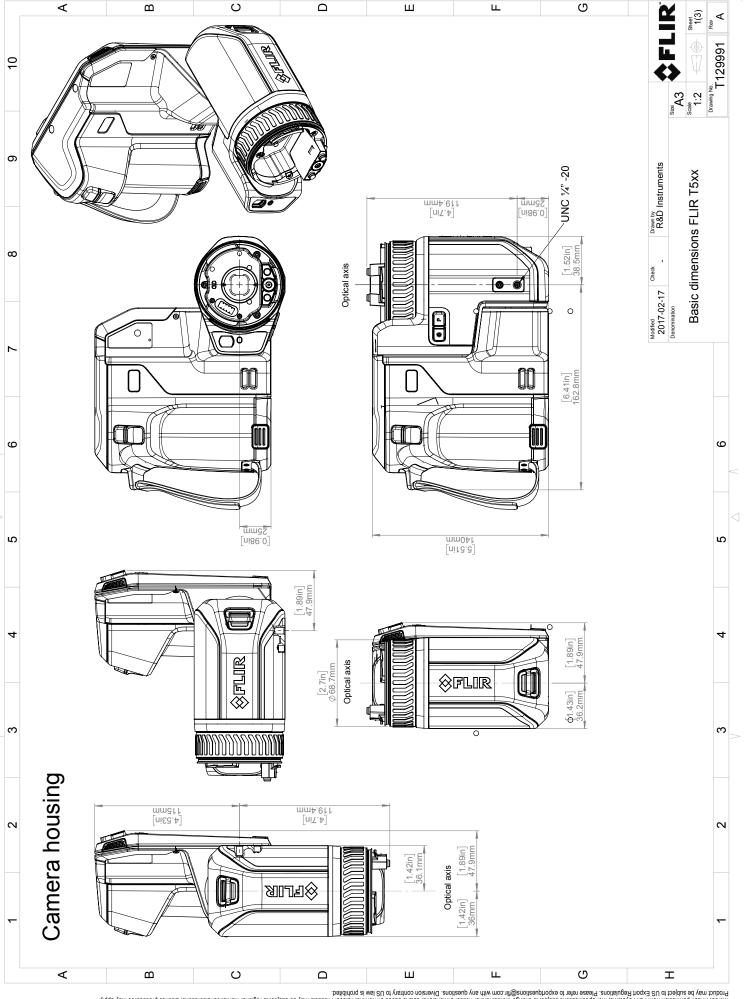
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Shipping information	
EAN-13	Sweden: 7332558012970 Estonia: 4743254003262
UPC-12	845188014667
Country of origin	Sweden and/or Estonia

Supplies and accessories:

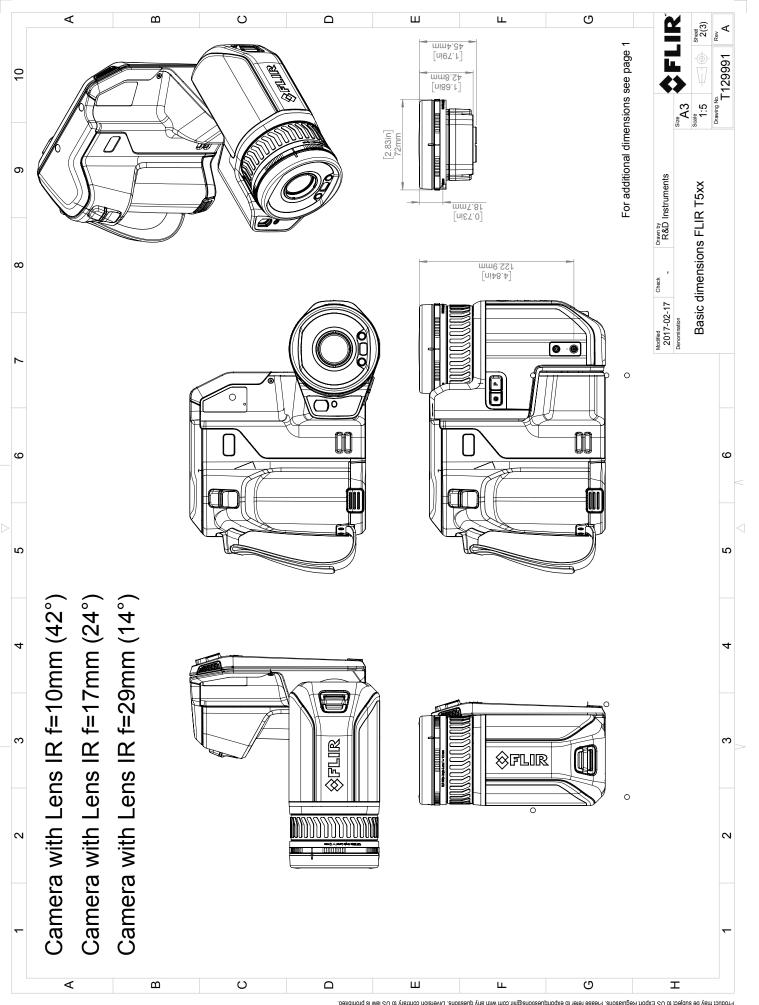
- T198495; Pouch
- T197771ACC; Bluetooth Headset
- T911706ACC; Car adapter 12 V
- T199588; Lens 14° + case
- T199590; Lens 42° + case
- T199589; Lens 24° + case
- T911705ACC; USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m
- T911632ACC; USB Type-C to HDMI adapter, standard specification UH311
- T911631ACC; USB 2.0 A to USB Type-C cable, 0.9 m
- T911630ACC; Power supply for camera, 15 W/3 A
- T911633ACC; Power supply for battery charger
- T199610; Battery charger
- T199300ACC; Battery
- T199601; Hand strap and neck strap
- T199347ACC; Hard transport case
- T199609; Macro mode 71/103 μm for 24°
- 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)

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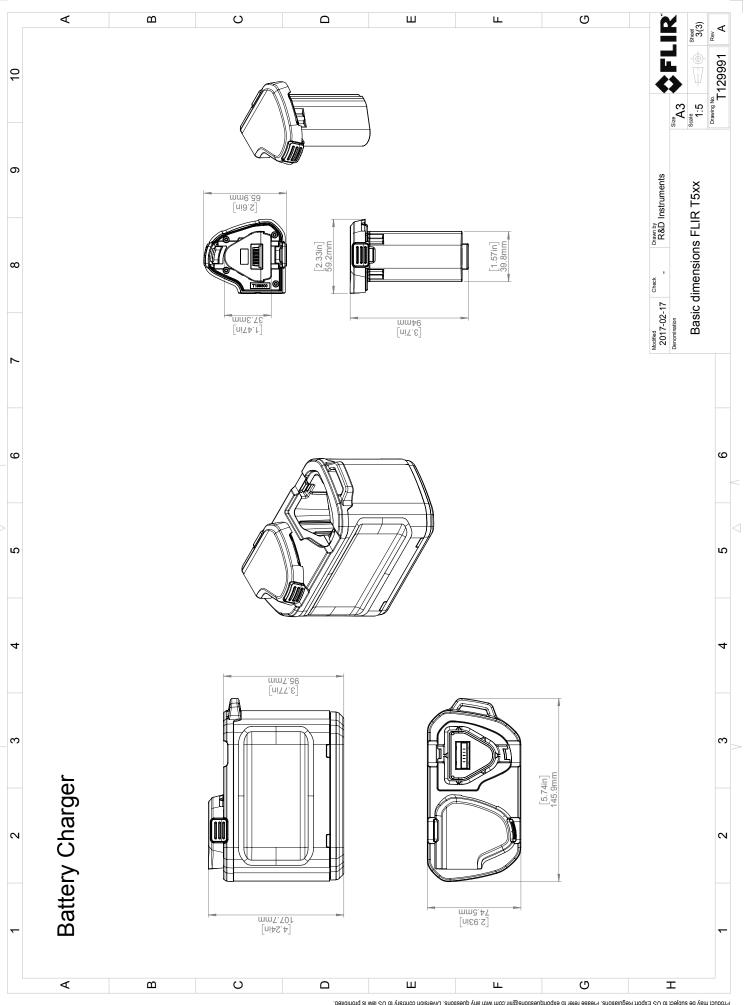
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November 13, 2017 Täby, Sweden

AQ320246

CE Declaration of Conformity - EU Declaration of Conformity

Product: FLIR T5XX -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 -series (Product Model Name FLIR-T8210).

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

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Directive	2014/30/EU	Electromagnetic Compability
Directive	2014/35/EU	Low Voltage Directive
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:

SAR:

Safety:

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
ETSLEN 301 893 v.2.1.1	5GHz WLAN

EN 303 413 v1.1.0	Radio Spectrum Efficiency (gps)
EN 50566:2013/AC:2014	Handheld and body mounted wireless
EN 62209-02:2010	Handheld and body mounted wireless
100 1000 1 1000 11111	

LIV 02203 02.2010	Hariancia and body mounted wireless
IEC 60950-1:2005+A1:2009+	Information technology equipment
A2:2013 EN 60950-1:2006+	

A11:2009+AC:2011+A12:2011

RoHS: EN 50581:2012 Technical documentation

FLIR Systems ABQuality Assurance

Lea Dabiri Quality Manager