

P/N: 79306-0101

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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	320 × 240 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 103 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)	 2.41 mrad/pixel, 42° 1.31 mrad/pixel, 24° 0.75 mrad/pixel, 14°
Lens identification	Automatic
f number	 1.1, 42° 1.3, 24° 1.5, 14°
Image frequency	30 Hz
Focus	Continuous LDM One-shot LDM One-shot contrast Manual

^{1.} Not supported when using macro.



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Imaging and optical data	
Field of view match	Yes
Digital zoom	1–4× 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
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	AutomaticAutomatic maximumAutomatic minimumManual
Image presentation modes	
Infrared image	Yes
Visual image	Yes
MSX	Yes
Picture in picture	Resizable and movable
Gallery	Yes
Measurement	
Object temperature range	 -20 to +120°C (-4 to +248°F) 0-650°C (32-1202°F) Optional: 300-1200°C (572-2192°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 15–35°C (59–95°F) and object temperature above 0°C (32°F)
Measurement analysis	
Spotmeter	3 in live mode
Area	3 in live mode
Automatic hot/cold detection	Automatic maximum/minimum markers within area
Color alarm (Isotherm)	AboveBelowIntervalCondensationInsulation



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Measurement analysis	
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	
Moisture alarm	Yes
Insulation alarm	Yes
Measurement alarm	Audible/visual alarms above/below
Set-up	
Color palettes	IronGrayRainbowArcticLavaRainbow 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 from predefined list or soft keyboard on touchscreen
Visual image annotation	Yes
Image sketch	Yes: on infrared only
Sketch	From touchscreen
METERLINK	Yes, several readings



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Image annotations	
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
Data communication interfaces	
Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort
Bluetooth	Communication with headset and external
	sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
Wi-Fi Audio	
	Peer to peer (ad hoc) or infrastructure (network) Microphone and speaker for voice annotation of
Audio	Peer to peer (ad hoc) or infrastructure (network) Microphone and speaker for voice annotation of images
Audio USB	Peer to peer (ad hoc) or infrastructure (network) Microphone and speaker for voice annotation of images USB Type-C: data transfer/video/power
Audio USB USB standard	Peer to peer (ad hoc) or infrastructure (network) Microphone and speaker for voice annotation of images USB Type-C: data transfer/video/power USB 2.0 High Speed
Audio USB USB standard Video out	Peer to peer (ad hoc) or infrastructure (network) Microphone and speaker for voice annotation of images USB Type-C: data transfer/video/power USB 2.0 High Speed DisplayPort
Audio USB USB standard Video out Video connector type	Peer to peer (ad hoc) or infrastructure (network) Microphone and speaker for voice annotation of images USB Type-C: data transfer/video/power USB 2.0 High Speed DisplayPort
Audio USB USB standard Video out Video connector type Power system	Peer to peer (ad hoc) or infrastructure (network) Microphone and speaker for voice annotation of images USB Type-C: data transfer/video/power USB 2.0 High Speed DisplayPort DisplayPort over USB Type-C
Audio USB USB standard Video out Video connector type Power system Battery type	Peer to peer (ad hoc) or infrastructure (network) Microphone and speaker for voice annotation of images USB Type-C: data transfer/video/power USB 2.0 High Speed DisplayPort DisplayPort over USB Type-C
Audio USB USB standard Video out Video connector type Power system Battery type Battery voltage	Peer to peer (ad hoc) or infrastructure (network) Microphone and speaker for voice annotation of images USB Type-C: data transfer/video/power USB 2.0 High Speed DisplayPort DisplayPort over USB Type-C Rechargeable Li-ion battery 3.6 V



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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 \times W \times H)	59 × 66 × 94 mm (2.3 × 2.6 × 3.7 in.)
Tripod mounting	UNC 1/4"-20
Housing material	PCABS with TPE, magnesium
Housing material Color	PCABS with TPE, magnesium Black
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FLIR T530 24° + 14° & 42°

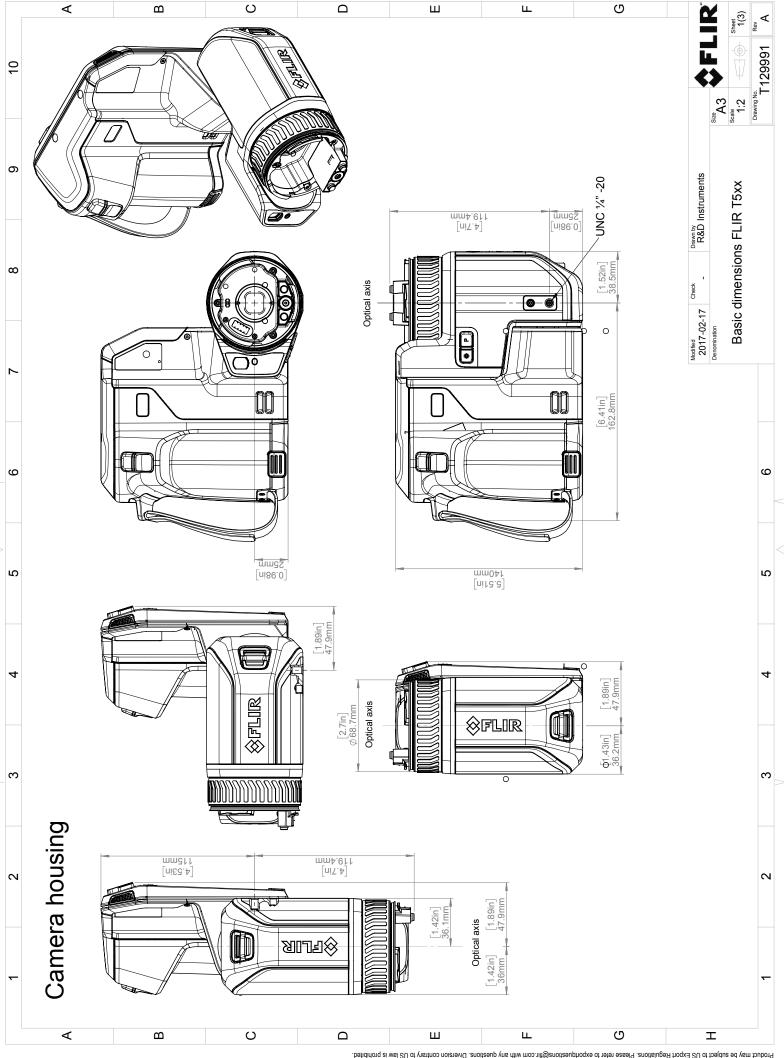
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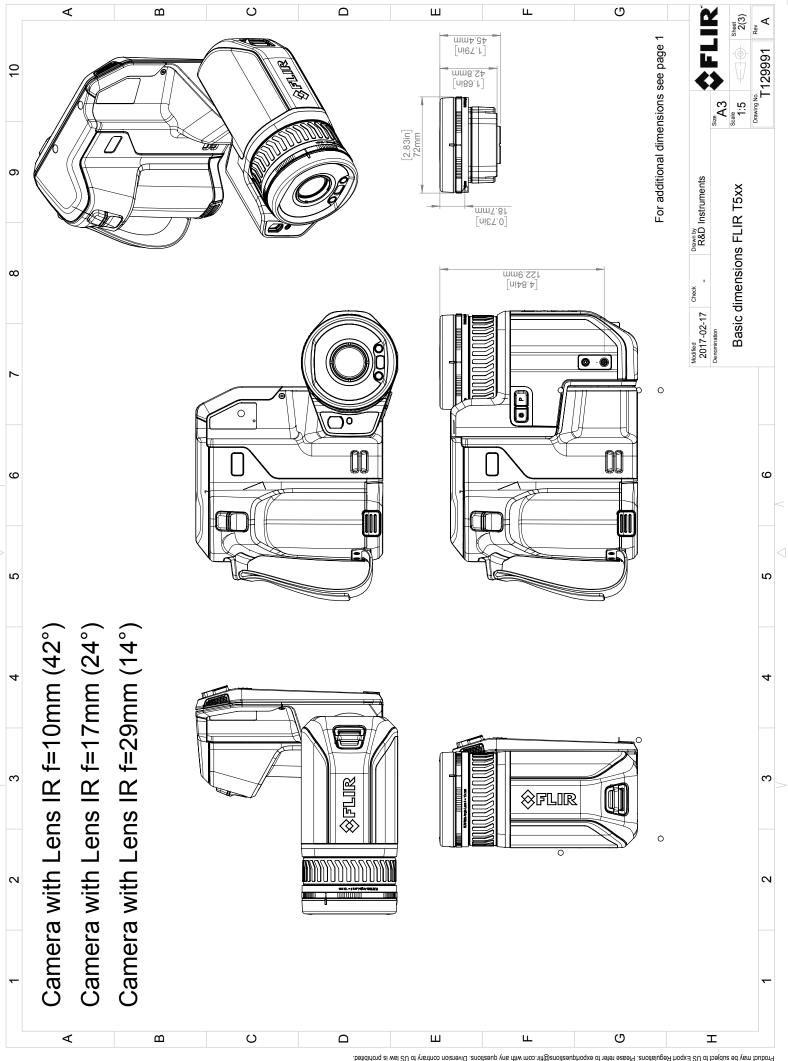
Shipping information	
Packaging, type	Cardboard box
Packaging, contents	Accessory box I: Power supply for battery charger Power supply, 15 W/3 A Printed documentation SD card (8 GB) USB 2.0 A to USB Type-C cable, 1.0 m USB Type-C to HDMI adapter, standard specification UH311 USB Type-C to USB Type-C 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 Extra lens, 14° Extra lens, 42° Hard transport case Infrared camera with lens Lens cap, front Lens cap, front and rear (only for extra lenses)
Packaging, weight	
Packaging, size	$500 \times 190 \times 370 \text{ mm} (19.7 \times 7.5 \times 14.6 \text{ in.})$
EAN-13	Sweden: 7332558012963Estonia: 4743254003248
UPC-12	845188014650
Country of origin	Sweden and/or Estonia

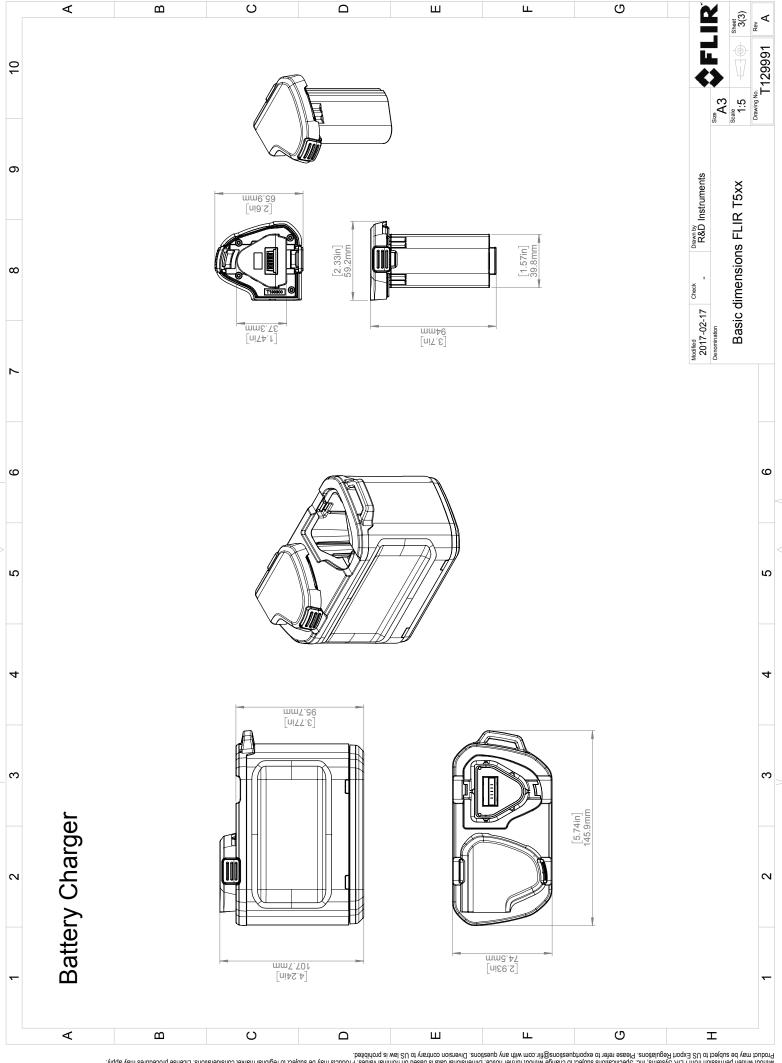
Supplies and accessories:

- T198495; Pouch
- 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°
- T199616; High temperature option, +300 to +1200°C
- 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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AQ320246

June 29, 2017 Täby, Sweden

CE Declaration of Conformity – EU Declaration of Conformity

Name and address of the manufacturer: Product: FLIR T5XX -series FLIR Systems AB

SE-187 15 Täby, Sweden PO Box 7376

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

Directives:

Limitation of exposure to electromagnetic fields (SAR) Waste electrical and electric equipment Radio Equipment Directive (RED) Electromagnetic Compability Low Voltage Directive 1999/519/EC 2014/53/EU 2014/30/EU 2014/35/EU 2012/19/EU Directive Directive Directive Directive Directive

Standards:

EMC for radio, broadband data transmission Electromagnetic Compability Generic ERM – EMC for radio equipment ERM – EMC Wideband data EMC – Generic standards Safety of laser products EN 301489-17:2012 v2.2.1 EN 301489-1:2016 v2.1.0 ETSI EN 301 489-1 + -17 EN 61000-6-3/A1:2011 EN 61000-6-2:2005 EN 60825-1 EMC Radio: Immunity: Emission:

ETSI EN 301 893 v.2.1.1

ETSI EN 300 328 v2.1.1

Radio: Laser:

requirements of the R&TTE Directive

5GHz WLAN

Harmonized EN covering essential

Handheld and body mounted wireless Handheld and body mounted wireless Information technology equipment IEC 60950-1:2005+A1:2009+ EN 50566:2013/AC:2014 EN 62209-02:2010

A11:2009+AC:2011+A12:2011

A2:2013 EN 60950-1:2006+

Safety:

SAR:

Quality Assurance **FLIR Systems AB**

the tracken

Quality Manager

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SAR:

EN 50566:2013/AC:2014

EN 62209-02:2010

ETSI EN 301 893 v.2.1.1

Handheld and body mounted wireless Handheld and body mounted wireless

5GHz WLAN

Information technology equipment

Quality Assurance FLIR Systems AB

the treason

Quality Manager Lea Dabiri

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EMC for radio, broadband data transmission Electromagnetic Compability Generic requirements of the R&TTE Directive Harmonized EN covering essential ERM – EMC for radio equipment ERM – EMC Wideband data EMC – Generic standards Safety of laser products EN 301489-17:2012 v2.2.1 EN 301489-1:2016 v2.1.0 ETSI EN 301 489-1 + -17 EN 61000-6-3/A1:2011 ETSI EN 300 328 v2.1.1 EN 61000-6-2:2005 EN 60825-1 Standards: EMC Radio: Immunity: Emission: Radio: Laser:

A11:2009+AC:2011+A12:2011

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

Safety:

SAR:

EN 50566:2013/AC:2014

EN 62209-02:2010

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