

FLIR T530 42°

P/N: 79303-0101

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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	<u> </u>		
Infrared resolution	320 × 240 pixels		
UltraMax (super-resolution) ¹	Yes <30 mK @ 30°C (86°F)		
NETD			
Field of view	42° × 32°		
Minimum focus distance	0.15 m (0.49 ft)		
Minimum focus distance with MSX	0.65 m (2.13 ft)		
Focal length	10 mm (0.39 in)		
Spatial resolution (IFOV)	2.41 mrad/pixel		
Available extra lenses	 24° (AutoCal) 14° (AutoCal) 6° (service calibration required) 		
Lens identification	Automatic		
f number	1.1		
Image frequency	30 Hz		
Focus	 Continuous LDM One-shot LDM One-shot contrast Manual 		
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		

1. Not supported when using macro.

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Image presentation		
Resolution	640 × 480 pixels (VGA)	
Surface brightness (cd/m ²)	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	Yes	
Measurement		
Camera temperature range	 -20 to 120°C (-4 to 248°F) 0 to 650°C (32 to 1202°F) Optional 300 to 1200°C (572 to 2192°F) 	
Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F)	 Range -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% Range 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% Optional Range 300 to 1200°C (572 to 2192°F): ±2% 	
Screening mode		
Sampling average mode	Recommended temperature range: 30 to 45°C (86 to 113°F) in stable room temperature Accuracy (drift): ±0.3°C (±0.5°F) ²	
Increation mode		
Inspection mode	Eachlad in the compare	
FLIR Inspection route	Enabled in the camera	

2. No external blackbody needed.

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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 No measurements Center spot Hot spot Cold spot User preset 1 User preset 2		
Measurement presets			
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		
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	 Arctic White hot Black hot Iron Lava Rainbow 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			
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		





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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	
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)	
	Microphone and speaker for voice annotation of	
Audio	images	





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Data communication interfaces	
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 (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 B, class B (emission)
Radio spectrum	 ETSI EN 300 328 ETSI EN 301 893 FCC 47 CFR part 15 C FCC 47 CFR part 15 E
Encapsulation	IP 54 (IEC 60529)
Shock	25g (IEC 60068-2-27)





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Environmental data		
Vibration	2g (IEC 60068-2-6)	
Safety	Camera:	
-	• IEC/EN 60950-1, IEC/EN 62368-1	
	Power supply:	
	IEC/EN 62368-1CSA/UL/KC/SAA/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 $(L \times W \times H)$	$59 \times 66 \times 94$ 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, 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 charger Hard transport case Infrared camera with lens Lens cap, front and rear (only for extra lenses) License card: FLIR Thermal Studio Pro (3 month subscription) + FLIR Route Creator Plugin for Thermal Studio Pro (3 month subscription) 	
Packaging, weight	 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 charger Hard transport case Infrared camera with lens Lens cap, front Lens cap: front and rear (only for extra lenses) License card: FLIR Thermal Studio Pro (3 month subscription) + FLIR Route Creator Plugin for Thermal Studio Pro (3 month 	
Packaging, weight Packaging, size	 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 charger Hard transport case Infrared camera with lens Lens cap, front Lens cap, front and rear (only for extra lenses) License card: FLIR Thermal Studio Pro (3 month subscription) + FLIR Route Creator Plugin for Thermal Studio Pro (3 month subscription) 	





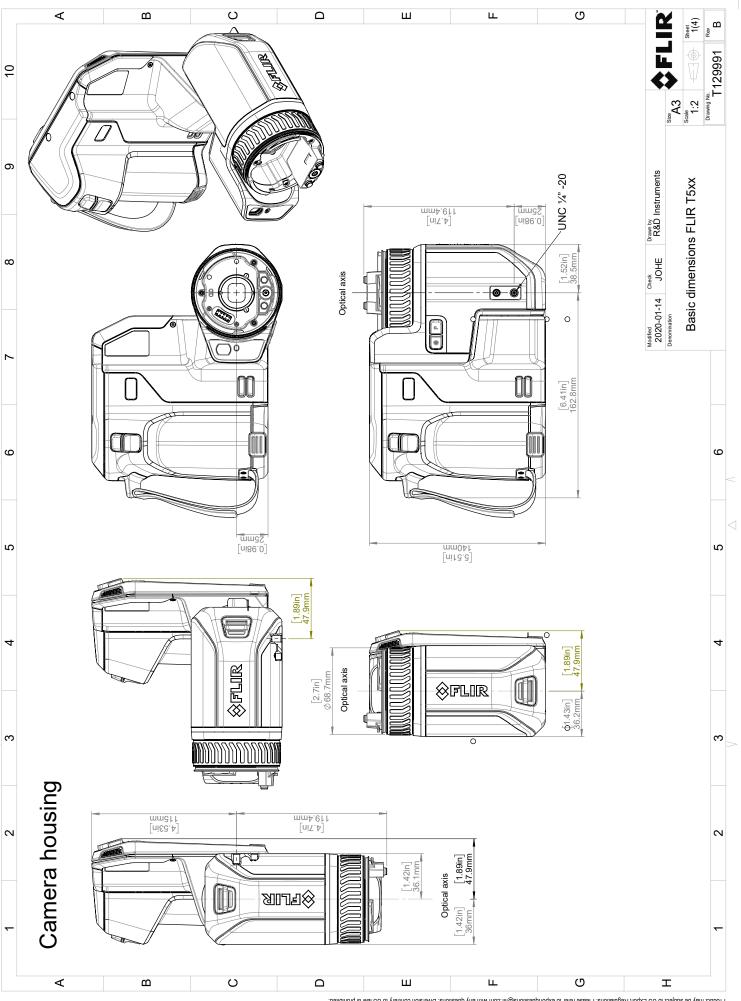
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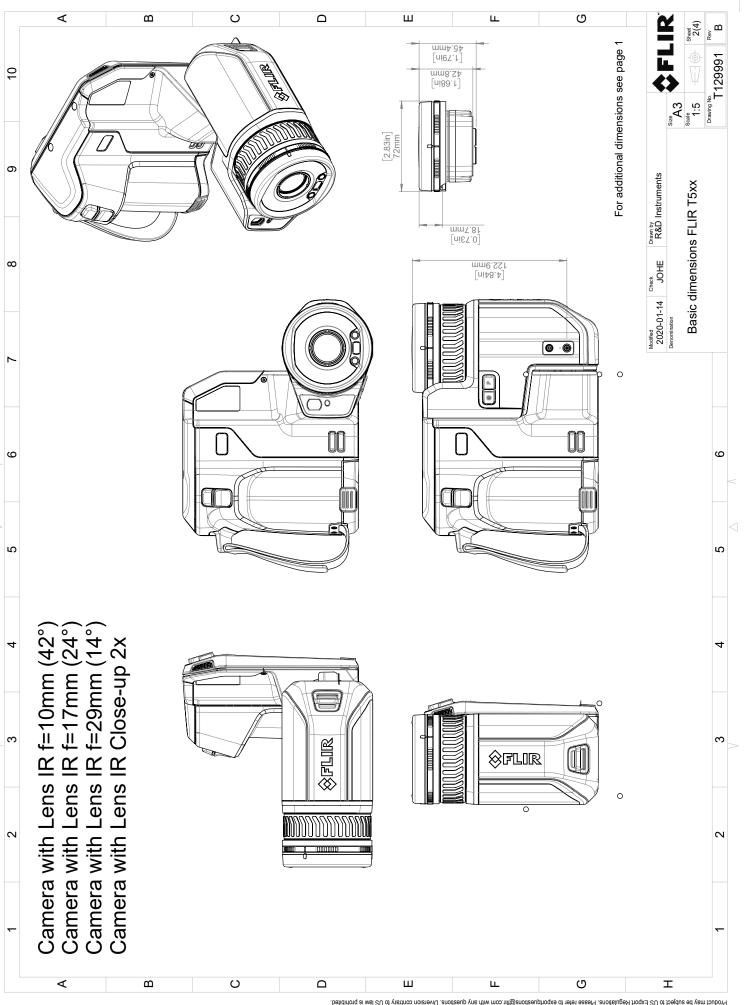
Shipping information	
UPC-12	845188014629
Country of origin	Sweden

Supplies and accessories:

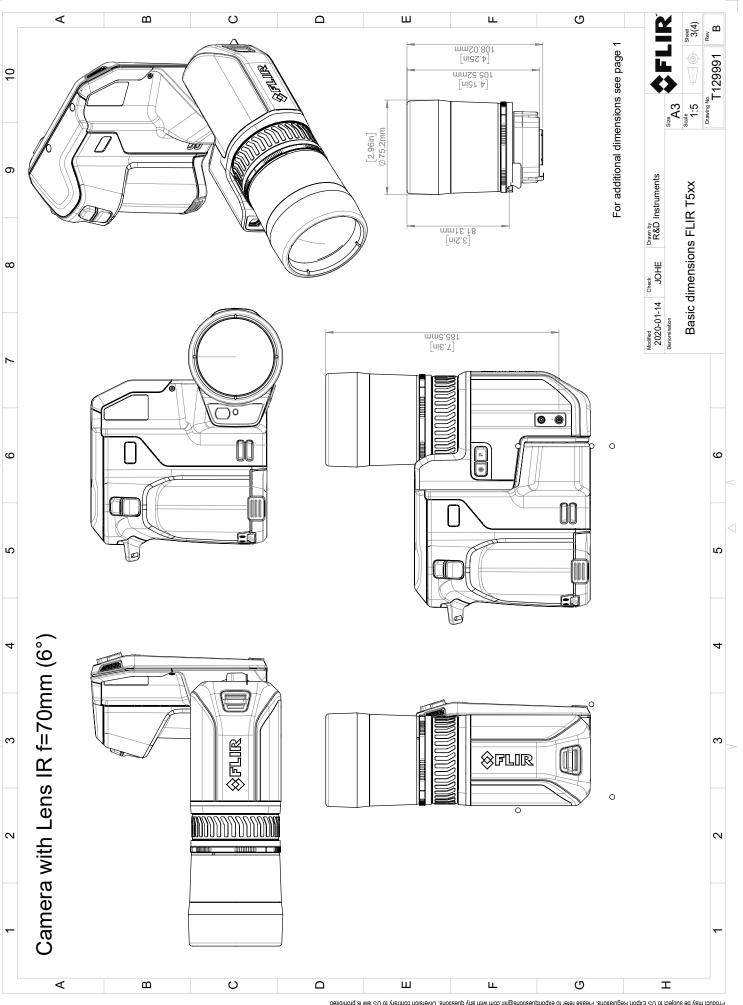
- T300238; Macro lens 2.0x with case
- T131171ACC; Remote operation button
- T199300ACC; Battery
- T199347ACC; Hard transport case for FLIR T8xx, T5xx, and GF7x series
- T199601; Hand strap and neck strap
- T199610; Battery charger
- T199616; Option, High temperature, +300 to +1200°C
- T300030; Option, No radio
- T911997; Tripod
- T911998; HDMI 2-port video splitter
- T300369; Mounting kit (FLIR T5xx, T8xx, Exx)
- T300344; EST Camera kit (FLIR Exx/T5xx/T8xx)
- T850105; FLIR Inspection Route Camera Option
- T850112; Option, Auto-screening
- T850111; Option, Dual streaming
- T130337ACC; Calibration target
- T199588; IR lens, f=29 mm (14°) with case
- T199589; IR lens, f=17 mm (24°) with case
- T199590; IR lens, f=10 mm (42°) with case
- T300095; IR lens, f=70 mm (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
- T300342; FLIR Screen-EST, Perpetual license
- T300243; FLIR Thermal Studio Pro, 1 Year Subscription
- T300083; FLIR Thermal Studio Pro, Perpetual license
- T300341; FLIR Thermal Studio Standard, 1 Year Subscription
- T300258; FLIR Thermal Studio Standard, 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)
- 4220499; FLIR Research Studio 1 Year Subscription (online activation)
- 4220500; FLIR Research Studio Perpetual License (online activation)
- 4220646; FLIR Research Studio Perpetual License (USB dongle)
- INST-EW-0145; Extended Warranty 1 Year for T530
- INST-EWGM-0155; Premium Service Package for A3xx, T4xx mkII, T530
- INST-GM-0140; General Maintenance Package for T530



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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:

Directives.			
Directive Directive	2012/19/EU 2014/53/EU	Waste electrical and electric equipment Radio Equipment Directive (RED)	
Directive	1999/519/EC		
Directive		Limitation of exposure to electromagnetic fields (SAR	
Directive	2011/65/EU	конз а	und 2015/830/EU
Standards:			
EMC Radio:	ETSI EN 301 489-1 + -17	7	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	4	Handheld and body mounted wireless
	EN 62209-02:2010		Handheld and body mounted wireless
Safety:	IEC 60950-1:2005+A1:20	009+	Information technology equipment
	A2:2013 EN 60950-1:20	06+	
	A11:2009+AC:2011+A12		
RoHS:	EN 50581:2012		Technical documentation
	2.1.00002.2012		

FLIR Systems AB Quality Assurance

the dollar

Lea Dabiri Quality Manager

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