

P/N: 82507-0201

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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) • <50 mK, 14° @ +30°C (+86°F)
Field of view	• 42° × 32° • 14° × 10°
Minimum focus distance	• 0.15 m (0.49 ft.), 42° • 1.0 m (3.28 ft.), 14°
Minimum focus distance with MSX	0.65 m (2.13 ft.), 42° 1.0 m (3.28 ft.), 14°
Focal length	• 10 mm (0.39 in.), 42° • 29 mm (1.41 in.), 14°
Spatial resolution (IFOV)	 1.66 mrad/pixel, 42° 0.52 mrad/pixel, 14°
Available extra lenses	24° (AutoCal) 6° (service calibration required)
Lens identification	Automatic
fnumber	• 1.1, 42° • 1.5, 14°
Image frequency	30 Hz
Focus	Continuous LDM One-shot LDM One-shot contrast Manual
Field of view match	Yes
Digital zoom	1–6× continuous

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^{1.} Not supported when using macro.



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Detector data	11
Focal plane array/spectral range	Uncooled microbolometer/7.5–14 μm
Detector pitch	17 μm
Image presentation	
Resolution (display)	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	Yes
Image adjustment	Automatic Automatic maximum Automatic minimum Manual
	Mariaa
Image presentation modes	4
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) 300 to 1500°C (572 to 2732°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%
	• Range 300 to 1500°C (572 to 2732°F): ±2%
Inspection mode	
FLIR Inspection route	Enabled in the camera
Measurement analysis	
Spotmeter	3 in live mode
Area	3 in live mode
Automatic hot/cold detection	Automatic maximum/minimum markers within area
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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
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.
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



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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
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)
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

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Radio	Physicath : EDD/I F: 0400 0400 MI I-
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 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)
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

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FLIR T840 42° + 14°

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Physical data	
Weight (including battery)	1.4 kg (3.1 lb.)
Size (L × W × H)	 Lens vertical: 164.3 × 201.3 × 84.1 mm (6.5 × 7.9 × 3.3 in.) Lens horisontal: 164.3 × 201.3 × 167.3 mm (6.5 × 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
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° Hard transport case Infrared camera with lens Lens cap, front Lens cap, front Lens card: FLIR Thermal Studio Pro (3 month subscription) FURD Type-C cable Research STANDARD TYPE-C Cable USB
Packaging, weight	6.3 kg (13.9 lb.)
Packaging, size	$500 \times 190 \times 370 \text{ mm} (19.7 \times 7.5 \times 14.6 \text{ in.})$
EAN-13	7332558025628
UPC-12	845188019020
Country of origin	Sweden

Supplies & accessories:

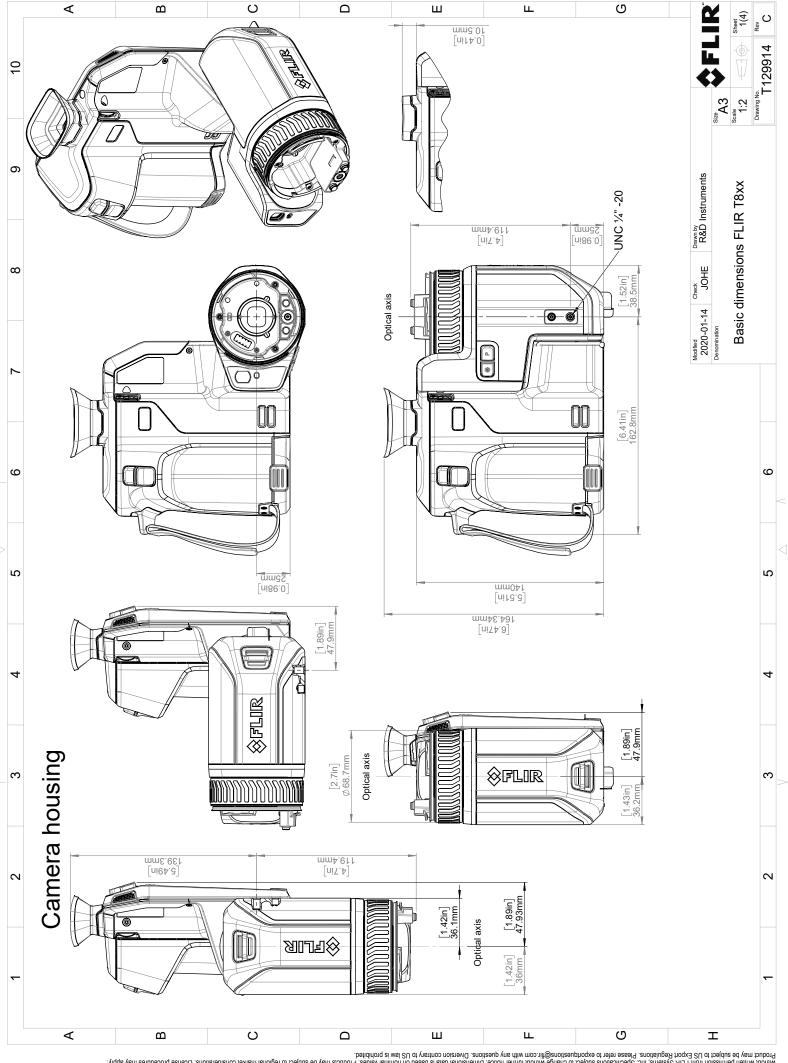
- T300238; Macro lens 2.0x with case
- T300095; IR lens, f=70 mm (6 $^{\circ}$) with case
- T131171ACC; Remote operation button
- T199300ACC; Battery
- T199347ACC; Hard transport case for FLIR T8xx, T5xx, and GF7x series
- T199610; Battery charger
- T300030; Option, No radio

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FLIR T840 42° + 14°

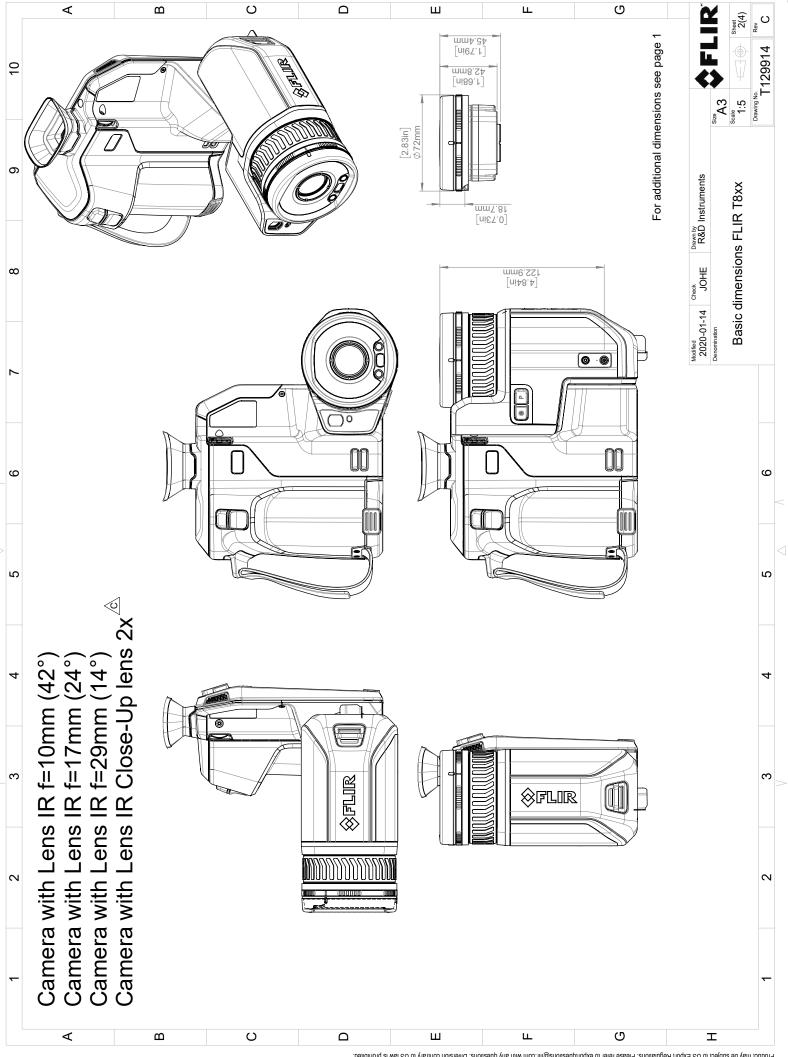
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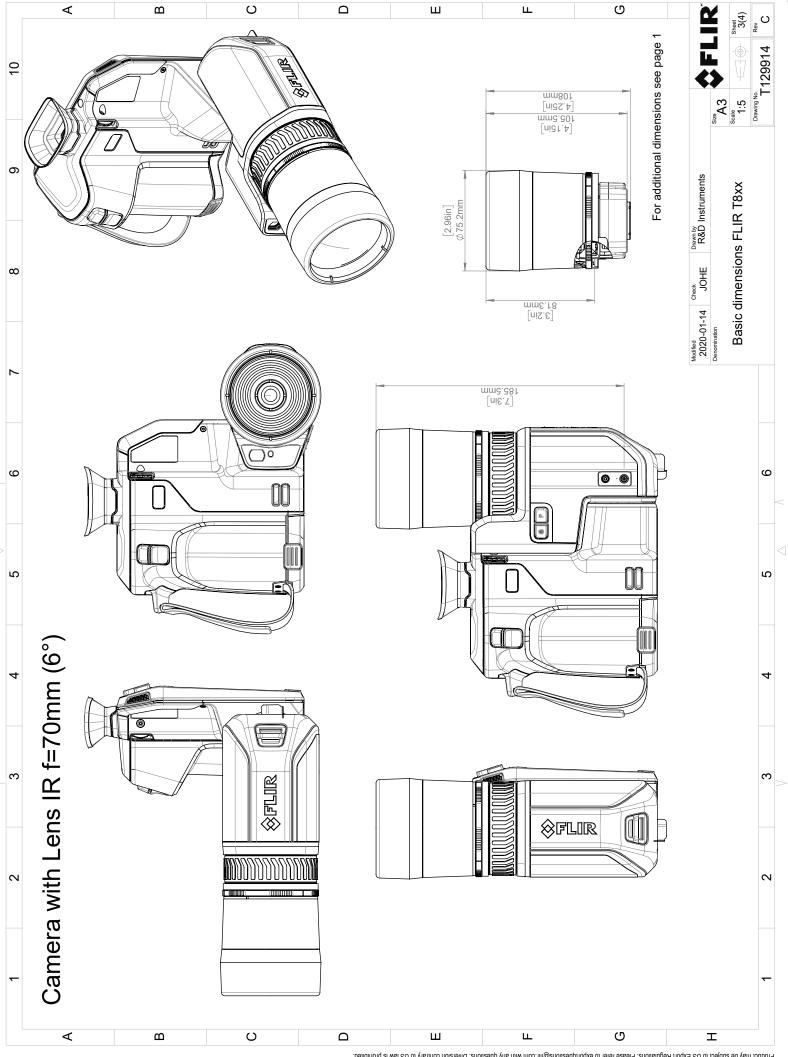
- T911997; Tripod
- T911998; HDMI 2-port video splitter
- T300369; Mounting kit (FLIR T5xx, T8xx, Exx)
- T130531ACC; Large eyecup
- T300188; Hand strap and neck strap
- T850105; FLIR Inspection Route Camera Option
- T850111; Option, Dual streaming
- T130337ACC; Calibration target
- T911630ACC; Power 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
- T300437ACC; Lens case
- T199589; IR lens, f=17 mm (24°) with case
- T199588; IR lens, f=29 mm (14°) with case
- T199590; IR lens, f=10 mm (42°) with case
- 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)
- INST-EW-0155; Extended Warranty 1 Year for A3xxf, T540, T600/bx, T610, T840,
- 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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Täby, Sweden July 07, 2021 AQ320246

CE Declaration of Conformity - EU Declaration of Conformity

Product:

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 2011/65/EU RoHS and 2015/830/EU (Phtalates)
Directive 2014/53/EU Radio Equipment Directive (RED)

Standards

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

EMC Radio ETSI EN 301 489-17 v3.2.0 EMC for radio, broadband data

transmission

RoHS: EN 50581:2012 Technical documentation

Radio: ETSI EN 300 328 v2.2.2 Harmonized EN covering essential

requirements of the R&TTE Directive

ETSI EN 301 893 v.2.1.1 5GHz WLAN

Safety: IEC 62368-1:2014 Ed 2 and Cor. 1:2015, EN Audio/video, information and

62368-1:2014/AC:2015/A11:2017 communication technology equipment,

Part 1: Safety

FLIR Systems ABQuality Assurance

Lea Dabiri

Quality Manager