

# **FLIR T840 42°**

# P/N: 82503-0201

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Website

http://www.flir.com

Customer support

http://support.flir.com

#### Disclaimer

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Imaging and optical data		
Infrared resolution	464 × 348 pixels	
UltraMax (super-resolution) <sup>1</sup>	Yes	
NETD	<30 mK @ +30°C (+86°F)	
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)	1.66 mrad/pixel	
Available extra lenses	<ul> <li>24° (AutoCal)</li> <li>14° (AutoCal)</li> <li>6° (service calibration required)</li> </ul>	
Lens identification	Automatic	
f number	1.1	
Image frequency	30 Hz	
Focus	<ul> <li>Continuous LDM</li> <li>One-shot LDM</li> <li>One-shot contrast</li> <li>Manual</li> </ul>	
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 (VGA)	
Surface brightness (cd/m <sup>2</sup> )	400	
Screen size	4 in.	

1. Not supported when using macro.





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Image presentation				
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		<ul> <li>Automatic</li> <li>Automatic maximum</li> <li>Automatic minimum</li> <li>Manual</li> </ul>		
Image presentation modes				
Infrared image		Yes		
Visual image		Yes		
MSX		Yes		
Picture in picture		Resizable and r	novable	
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)	-20 to +100°C (	–4 to +212°F)	±2°C (±3.6°F)	
	+100 to +120°C (+212 to +248° F)		±2%	
0 to +650°C (+32 to +1202°F)	0 to +100°C (+3	2 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 maximum/minimum markers within area		
Measurement presets		<ul> <li>No measurements</li> <li>Center spot</li> <li>Hot spot</li> <li>Cold spot</li> <li>User preset 1</li> <li>User preset 2</li> </ul>		
Difference temperature		Yes		
Reference temperature		Yes		
Emissivity correction		Yes, variable from 0.01 to 1.0 or selected from materials list		
Measurement corrections		Yes		





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#82503-0201; r. 60452;

Measurement analysis		
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)	<ul> <li>Above</li> <li>Below</li> <li>Interval</li> <li>Condensation (moisture/humidity/dewpoint)</li> <li>Insulation</li> </ul>	
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function	
Set-up		
Color palettes	<ul> <li>Iron</li> <li>Gray</li> <li>Rainbow</li> <li>Arctic</li> <li>Lava</li> <li>Rainbow HC</li> </ul>	
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:	
Laser distance meter information	FLIR meters with METERLINK Yes	
Laser distance meter information 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	





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Radiometric infrared-video streaming (compressed)       Over UVC         Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture) <ul> <li>H.264 (AVC) over RTSP (Wi-Fi)</li> <li>MJPEG over UVC and RTSP (Wi-Fi)</li> <li>MJPEG over UVC and RTSP (Wi-Fi)</li> </ul> Visual video streaming       Yes         Digital camera <ul> <li>Resolution</li> <li>S MP with LED light</li> <li>Focus</li> <li>Fixed</li> </ul> Field of view       53° x 41°         Video lamp       Built-in LED light         Laser pointer           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 12.0 High Speed         Video out          USB 2.0 High Speed         Video out          USB Pape-C: data transfer/Video/power         USB standard	Video streaming	
IR, MSX, visual, Picture in Picture)       In L26 (Wr-Fi)         WiBEG4 over RTSP (Wr-Fi)       MUPEG over UVC and RTSP (Wr-Fi)         Visual video streaming       Yes         Digital camera       Integrated and the streaming         Resolution       5 MP with LED light         Focus       Fixed         Field of view       53* x11°         Video lamp       Built-in LED light         Laser alignment       Position is automatically displayed on the infrared image         Laser distance meter       Activated by dedicated button         Laser       Class 2, 0.6-40 m (0.16-131 ft.) ±1% of measured distance         Data communication 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 Type-C: data transfer/video/power         Video connector type       DisplayPort         Video connector type       DisplayPort         Operating frequency       Bluetooth + EDR/LE: 2402–2400 MHz         WLAN 2 4 GHz: 25150–5350 MHz (DFS: only slave mode)       Note that frequency band 5150–5350 MH	•	Over UVC
Digital camera         Image: Construct of the section of the sectin of the section of the section of the section of the sec		MPEG4 over RTSP (Wi-Fi)
Resolution       5 MP with LED light         Focus       Fixed         Field of view       53° × 41°         Video lamp       Built-in LED light         Laser pointer       Itaser alignment         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       Itasersore         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 over USB Type-C         Radio       Ital Participant Participant Participant Participant Participant Participant Participant Participant Participant Parter Participant Partitipant Participant Participant Participant Part	Visual video streaming	Yes
Fixed       Fixed         Field of view       53° x 41°         Video lamp       Built-in LED light         Laser pointer       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       Image         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 out       DisplayPort over USB Type-C         Radio       Image         Operating frequency       Bluetooth + EDR/LE: 2402–2480 MHz         WLAN 2.4 GHz: 2412–2462 MHz       WLAN 2.4 GHz: 2412–2462 MHz         WLAN 2.4 GHz: 2412–2462 MHz       WLAN 2.4 GHz: c10 dBm         Mutant       Integrated PIFA antenna (gain: maximum 1.4 dBi)         Power system       Bluetooth + EDR/LE: <10 dBm	Digital camera	
Field of view       53° × 41°         Video lamp       Built-in LED light         Laser pointer       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         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         Padio       Interfaces CH2: 2402–2480 MHz         Operating frequency       Bluetooth + EDR/LE: 2402–2480 MHz         VLAN 2 4 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	Resolution	5 MP with LED light
Video lamp         Built-in LED light           Laser pointer         Position is automatically displayed on the infrared image           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         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         Bluetooth + EDR/LE: 2402–2480 MHz           WLAN 2.4 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           Antenna         Integrated PIFA antenna (gain: maximum 1.4 dBi)           Power system         E           Battery type         Rechargeable Li-ion battery	Focus	Fixed
Laser pointer         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           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           Padio         Poerating frequency           Bluetooth + EDR/LE: 2402–2480 MHz         WLAN 2.4 GHz: 2412–2462 MHz           WLAN 2.4 GHz: 2112–2462 MHz         WLAN 2.4 GHz: 2110–5350 MHz is for indoor use only, see national regulations.           RF output (EIRP)         Bluetooth + EDR/LE: 2402–2480 MHz           NLAN 2.4 GHz: 2117 dBm         Antenna           Antenna         Integrated PIFA antenna (gain: maximum 1.4 dBi)           Power system         Eattery type           Battery type         Rechargeable Li-ion	Field of view	53° × 41°
Laser alignmentPosition is automatically displayed on the infrared imageLaser distance meterActivated by dedicated buttonLaserClass 2, 0.05-40 m (0.16-131 ft.) ±1% of measured distanceData communication interfacesUSB 2.0, Bluetooth, Wi-Fi, DisplayPortInterfacesUSB 2.0, Bluetooth, Wi-Fi, DisplayPortMETERLINK/BluetoothCommunication with headset and external sensorsWi-FiPeer to peer (ad hoc) or infrastructure (network)AudioMicrophone and speaker for voice annotation of imagesUSBUSB Type-C: data transfer/video/powerUSBUSB standardVideo outDisplayPortVideo connector typeDisplayPort over USB Type-CPadioImageOperating frequencyBluetooth + EDR/LE: 2402-2480 MHz WLAN 2 & 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	Video lamp	Built-in LED light
imageLaser distance meterActivated by dedicated buttonLaserClass 2, 0.05–40 m (0.16–131 ft.) ±1% of measured distanceData communication interfacesUSB 2.0, Bluetooth, Wi-Fi, DisplayPortMETERLINK/BluetoothCommunication with headset and external sensorsWi-FiPeer to peer (ad hoc) or infrastructure (network)AudioMicrophone and speaker for voice annotation of imagesUSBUSB Type-C: data transfer/video/powerUSB standardUSB 2.0 High SpeedVideo outDisplayPortVideo connector typeDisplayPortOperating frequencyBluetooth + EDR/LE: 2402–2480 MHz WLAN 2.4 GHz: 2412–2462 MHz WLAN 5 GHz: 5150–5350 MHz (DFS: only slave mode)RF output (EIRP)Bluetooth + EDR/LE: <a href="https://dem.indooruse.only.see national regulations.">https://dem.indooruse.only.see national regulations.</a> RF output (EIRP)Bluetooth + EDR/LE: <a href="https://dem.indooruse.only.see national regulations.">https://dem.indooruse.only.see national regulations.</a> RF output (EIRP)Bluetooth + EDR/LE: <a href="https://dem.indooruse.only.see national regulations.">https://dem.indooruse.only.see national regulations.</a> RF output (EIRP)Bluetooth + EDR/LE: <a href="https://dem.indooruse.only.see national regulations">https://dem.indooruse.only.see national regulations.</a> Power systemIntegrated PIFA antenna (gain: maximum 1.4 dBi)Power system3.6 VBattery operating time> 4 hours at 25°C (68°F) with typical useCharging systemIn camera (AC adapter or 12 V from a vehicle) or two-bay charger	Laser pointer	
LaserClass 2, 0.05–40 m (0.16–131 ft.) ±1% of measured distanceData communication interfacesUSB 2.0, Bluetooth, Wi-Fi, DisplayPortInterfacesUSB 2.0, Bluetooth, Wi-Fi, DisplayPortMETERLINK/BluetoothCommunication with headset and external sensorsWi-FiPeer to peer (ad hoc) or infrastructure (network)AudioMicrophone and speaker for voice annotation of imagesUSBUSB Type-C: data transfer/video/powerUSB standardUSB 2.0 High SpeedVideo connector typeDisplayPortOperating frequencyBluetooth + EDR/LE: 2402–2480 MHzWLAN 2.4 GHz: 2412–2462 MHzWLAN 2.4 GHz: 2112–2462 MHzWLAN 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 dBmAntennaIntegrated PIFA antenna (gain: maximum 1.4 dBi)Power systemSch 2.36 VBattery typeRechargeable Li-ion batteryBattery operating time> 4 hours at 25°C (68°F) with typical useCharging systemIn camera (AC adapter or 12 V from a vehicle) or two-bay charger	Laser alignment	
Data communication interfacesInterfacesUSB 2.0, Bluetooth, Wi-Fi, DisplayPortMETERLINK/BluetoothCommunication with headset and external sensorsWi-FiPeer to peer (ad hoc) or infrastructure (network)AudioMicrophone and speaker for voice annotation of imagesUSBUSB Type-C: data transfer/video/powerUSB standardUSB 2.0 High SpeedVideo outDisplayPortVideo connector typeDisplayPort over USB Type-CRadioDerating frequencyOperating frequencyBluetooth + EDR/LE: 2402–2480 MHz WLAN 2.4 GHz: 2412–2462 MHz WLAN 2.4 GHz: 5150–5350 MHz (DFS: only slave mode)RF output (EIRP)Bluetooth + EDR/LE: <10 dBm WLAN: <17 dBm	Laser distance meter	Activated by dedicated button
InterfacesUSB 2.0, Bluetooth, Wi-Fi, DisplayPortMETERLINK/BluetoothCommunication with headset and external sensorsWi-FiPeer to peer (ad hoc) or infrastructure (network)AudioMicrophone and speaker for voice annotation of imagesUSBUSB Type-C: data transfer/video/powerUSB standardUSB 2.0 High SpeedVideo outDisplayPortVideo connector typeDisplayPort over USB Type-CRadioOperating frequencyBluetooth + EDR/LE: 2402–2480 MHz WLAN 2.4 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	Laser	
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       METERLINK / Bluetooth + EDR/LE: 2402–2480 MHz         Operating frequency       Bluetooth + EDR/LE: 2402–2480 MHz         WLAN 2.4 GHz: 5150–5350 MHz (DFS: only slave mode)       Note that frequency band 5150–5350 MHz (DFS: only slave mode)         Note that frequency band 5150–5350 MHz (DFS: only slave mode)       Note that frequency band 5150–5350 MHz (DFS: only slave mode)         RF output (EIRP)       Bluetooth + EDR/LE: < 10 dBm	Data communication interfaces	
sensorsWi-FiPeer to peer (ad hoc) or infrastructure (network)AudioMicrophone and speaker for voice annotation of imagesUSBUSB Type-C: data transfer/video/powerUSB standardUSB 2.0 High SpeedVideo outDisplayPortVideo connector typeDisplayPort over USB Type-CRadioImagesOperating frequencyBluetooth + EDR/LE: 2402-2480 MHzWLAN 2.4 GHz: 2412-2462 MHzWLAN 2.4 GHz: 2412-2462 MHzWLAN 5 GHz: 5150-5350 MHz (DFS: only slave mode)Note that frequency band 5150-5350 MHz (DFS: only slave mode)RF output (EIRP)Bluetooth + EDR/LE: <10 dBm WLAN: < 17 dBm	Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort
AudioMicrophone and speaker for voice annotation of imagesUSBUSB Type-C: data transfer/video/powerUSB standardUSB 2.0 High SpeedVideo outDisplayPortVideo connector typeDisplayPort over USB Type-CRadioOperating frequencyBluetooth + EDR/LE: 2402-2480 MHzWLAN 2.4 GHz: 2412-2462 MHzWLAN 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	METERLiNK/Bluetooth	
imagesUSBUSB Type-C: data transfer/video/powerUSB standardUSB 2.0 High SpeedVideo outDisplayPortVideo connector typeDisplayPort over USB Type-CRadioOperating frequencyBluetooth + EDR/LE: 2402-2480 MHzWLAN 2.4 GHz: 2412-2462 MHzWLAN 2.4 GHz: 2412-2462 MHzWLAN 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	Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
USB standard       USB 2.0 High Speed         Video out       DisplayPort         Video connector type       DisplayPort over USB Type-C         Radio       Image: Connector type         Operating frequency       Bluetooth + EDR/LE: 2402–2480 MHz         WLAN 2.4 GHz: 2412–2462 MHz       WLAN 2.4 GHz: 5150–5350 MHz (DFS: only slave mode)         Note that frequency band 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	Audio	
Video outDisplayPortVideo connector typeDisplayPort over USB Type-CRadioBluetooth + EDR/LE: 2402-2480 MHzOperating frequencyBluetooth + EDR/LE: 2412-2462 MHzWLAN 2.4 GHz: 2412-2462 MHzWLAN 5 GHz: 5150-5350 MHz (DFS: only slave mode)Note that frequency band 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	USB	USB Type-C: data transfer/video/power
Video connector typeDisplayPort over USB Type-CRadioBluetooth + EDR/LE: 2402–2480 MHzOperating frequencyBluetooth + EDR/LE: 2412–2462 MHzWLAN 2.4 GHz: 2412–2462 MHzWLAN 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 dBmAntennaIntegrated PIFA antenna (gain: maximum 1.4 dBi)Power systemRechargeable Li-ion batteryBattery type8.0 VBattery operating time> 4 hours at 25°C (68°F) with typical useCharging systemIn camera (AC adapter or 12 V from a vehicle) or two-bay charger	USB standard	USB 2.0 High Speed
RadioOperating frequencyBluetooth + EDR/LE: 2402–2480 MHzWLAN 2.4 GHz: 2412–2462 MHzWLAN 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	Video out	DisplayPort
Operating frequencyBluetooth + EDR/LE: 2402–2480 MHzWLAN 2.4 GHz: 2412–2462 MHzWLAN 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	Video connector type	DisplayPort over USB Type-C
WLAN 2.4 GHz: 2412–2462 MHzWLAN 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	Radio	
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	Operating frequency	Bluetooth + EDR/LE: 2402–2480 MHz
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		WLAN 2.4 GHz: 2412–2462 MHz
indoor use only, see national regulations.RF output (EIRP)Bluetooth + EDR/LE: < 10 dBm WLAN: < 17 dBm		
WLAN: < 17 dBm		. ,
Antenna       Integrated PIFA antenna (gain: maximum 1.4 dBi)         Power system       Rechargeable Li-ion battery         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	RF output (EIRP)	Bluetooth + EDR/LE: < 10 dBm
Power system       Rechargeable Li-ion battery         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		
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	Antenna	Integrated PIFA antenna (gain: maximum 1.4 dBi)
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	Power system	
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	Battery type	Rechargeable Li-ion battery
Charging system In camera (AC adapter or 12 V from a vehicle) or two-bay charger	Battery voltage	3.6 V
two-bay charger	Battery operating time	> 4 hours at 25°C (68°F) with typical use
Charging time (using two-bay charger) 3.5 h to 90% capacity, on-screen indicator	Charging system	
	Charging time (using two-bay charger)	3.5 h to 90% capacity, on-screen indicator



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Power system	
Charging temperature	$0^\circ C$ 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	<ul> <li>ETSI EN 301 489-1 (radio)</li> <li>ETSI EN 301 489-17</li> <li>EN 61000-6-2 (immunity)</li> <li>EN 61000-6-3 (emission)</li> <li>FCC 47 CFR Part 15 Class B (emission)</li> </ul>
Radio spectrum	<ul> <li>ETSI EN 300 228</li> <li>FCC Part 15.249</li> <li>RSS-247 Issue 2</li> </ul>
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)	<ul> <li>Lens vertical: 164.3 × 201.3 × 84.1 mm (6.5 × 7.9 × 3.3 in.)</li> <li>Lens horisontal: 164.3 × 201.3 × 167.3 mm (6.5 × 7.9 × 6.6 in.)</li> </ul>
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/

## FLIR T840 42°



P/N: 82503-0201

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Shipping information	
Packaging, type	Cardboard box
Packaging, contents	<ul> <li>Accessory box I:</li> <li>Power supply for battery charger</li> <li>Power supply, 15 W/3 A</li> <li>Printed documentation</li> <li>SD card (8 GB)</li> <li>USB 2.0 A to USB Type-C cable</li> <li>USB Type-C to HDMI and PD adapter</li> <li>USB Type-C to USB Type-C cable (USB 2.0 standard)</li> </ul>
	<ul> <li>Accessory box II:         <ul> <li>Lens cap strap</li> <li>Lens cleaning cloth</li> <li>Neck strap</li> <li>Small eyecup</li> </ul> </li> </ul>
	<ul> <li>Battery (2 ea)</li> <li>Battery charger</li> <li>FLIR Thermal Studio Pro license card (1 year subscription)</li> <li>Hard transport case</li> <li>Infrared camera with lens</li> <li>Lens cap, front</li> <li>Lens cap, front and rear (only for extra lenses)</li> </ul>
Packaging, weight	5.9 kg (13.0 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	7332558025130
UPC-12	845188019013
Country of origin	Sweden

#### Supplies & accessories:

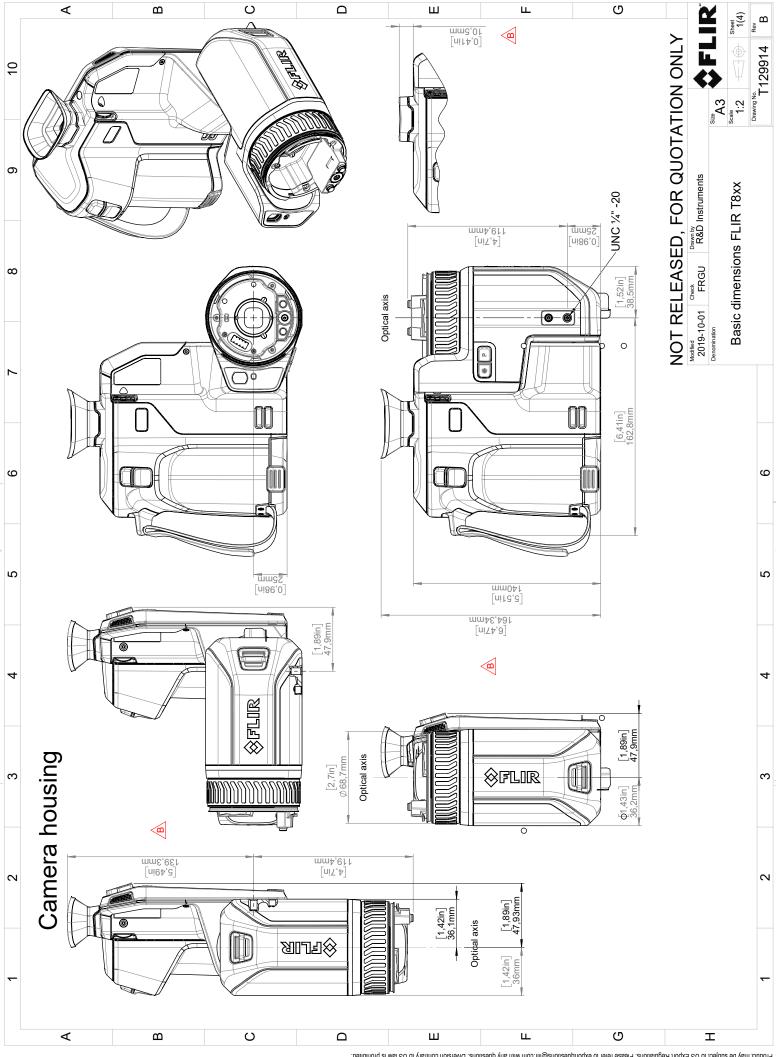
- T199300ACC; Battery
- T199610; Battery charger
- T199347ACC; Hard transport case for FLIR T8xx, T5xx, and GF7x series
- T300030; Option, No radio
- T130531ACC; Large eyecup
- T300188; Hand strap and neck strap
- T850105; FLIR Inspection Route Camera Option
- T130337ACC; Calibration target
- T199588; 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
- T300243; FLIR Thermal Studio Pro, 1 Year Subscription
- T300083; FLIR Thermal Studio Pro, Perpetual license
- T300258; FLIR Thermal Studio, Perpetual license
- T198583; FLIR Tools+ (download card incl. license key)



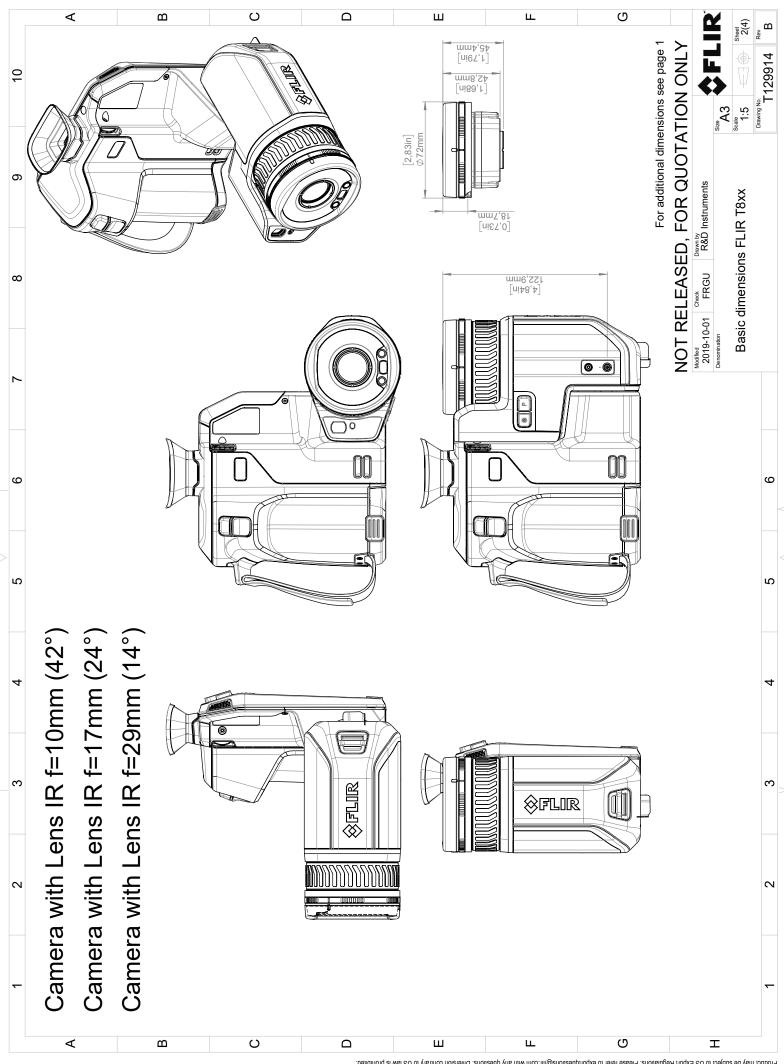


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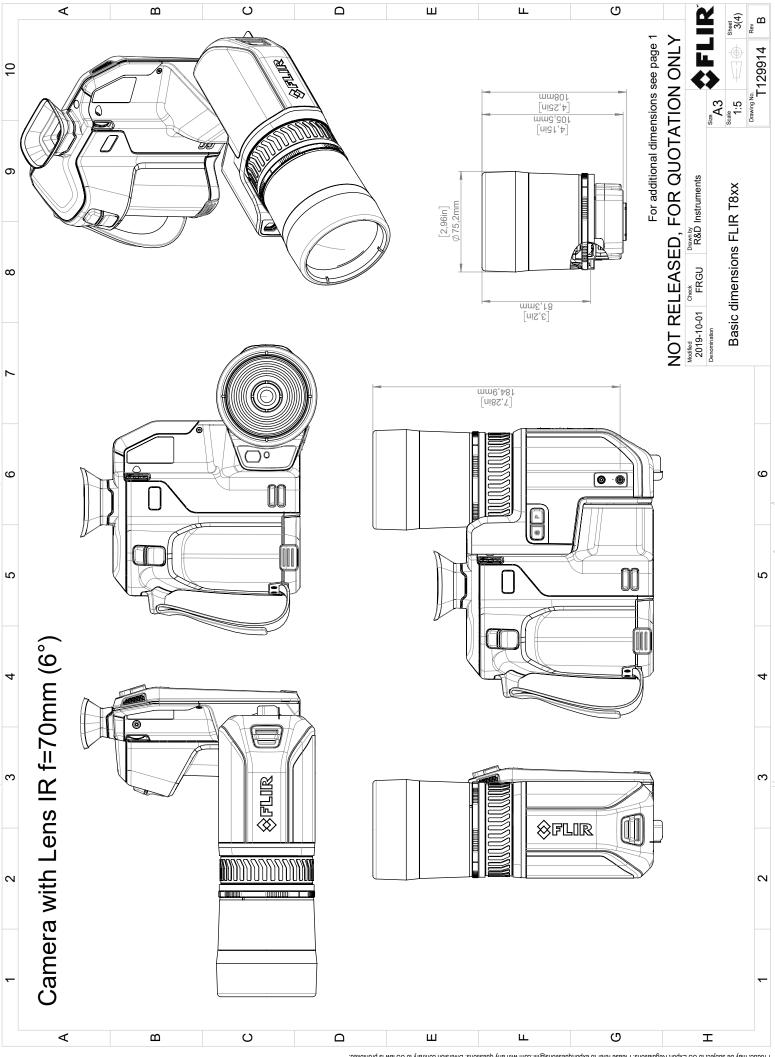
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- INST-EW-0155; Extended Warranty 1 Year for A3xxf, T540, T600/bx, T610, T840, T860
- INST-EWGM-0165; Premium Service Package for T540, T600/bx, T610, T840, T860
- INST-GM-0150; General Maintenance Package for T540, T6xx, T840, T860



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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:**

Directive20Directive19	14/53/EU F 99/519/EC L	Waste electrical and electric equipment Radio Equipment Directive (RED) imitation of exposure to electromagnetic fields (SAR) RoHS and 2015/830/EU
Emission: EN Immunity: EN EN	SI EN 301 489-1 + -17   61000-6-3/A1:2011   61000-6-2:2005   301489-1:2016 v2.1.0   301489-17:2012 v2.2.	
Radio: ETS ETS EN	60825-1 SI EN 300 328 v2.1.1 SI EN 301 893 v.2.1.1 303 413 v1.1.0	Safety of laser products Harmonized EN covering essential requirements of the R&TTE Directive 5GHz WLAN Radio Spectrum Efficiency (gps)
EN	50566:2013/AC:2014 62209-02:2010	Handheld and body mounted wireless Handheld and body mounted wireless
A2:	C60950-1:2005+A1:200 :2013 EN 60950-1:2006 1:2009+AC:2011+A12:2	5+
RoHS: EN	50581:2012	Technical documentation

FLIR Systems AB Quality Assurance

ta doon

Lea Dabiri Quality Manager