

P/N: 78501-0101

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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)	In FLIR Tools	
NETD	<50 mK @ +30°C (+86°F)	
Field of view	14° × 10°	
Minimum focus distance	1.0 m (3.28 ft.)	
Minimum focus distance with MSX	1.0 m (3.28 ft.)	
Focal length	29 mm (1.41 in.)	
Spatial resolution (IFOV)	0.75 mrad/pixel	
Available extra lenses	42° (AutoCal) 24° (AutoCal)	
Lens identification	Automatic	
f number	1.5	
Image frequency	30 Hz	
Focus	Continuous LDMOne-shot LDMOne-shot contrastManual	
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°	



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Image presentation	
Color depth (bits)	24
Aspect ratio	4:3
Auto-rotation	Yes
Touchscreen	Optically bonded PCAP
Display technology	IPS
Cover glass material	Dragontrail®
Programmable buttons	1
Viewfinder	No
Image adjustment	Automatic Automatic maximum Automatic minimum Manual

Image presentation modes	
Infrared image	Yes
Visual image	Yes
Thermal fusion	No
MSX	Yes
Picture in Picture	Resizable and movable
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 (+32 to +212°F)	±2°C (±3.6°F)
	+100 to + 650°C (+212 to +1202°F)	±2%
Optional +300 to +1000°C (+572 to +1832°F)	+300 to +1000°C (+572 to +1832°F)	±2%

Measurement analysis	
Spotmeter	3 in live mode
Area	1 in live mode
Automatic hot/cold detection	Auto-maximum/minimum markers within area
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



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Measurement analysis	
External optics/windows correction	Yes
Screening	0.5°C (0.9°F) accuracy @ 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	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 (8 GB)
Time lapse (periodic image storage)	No
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 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 images only
Sketch	From touchscreen
METERLINK	Wireless connection (Bluetooth) to:
	FLIR meters with METERLINK
Compass	Yes
Laser distance meter information	Yes
Area measurement information GPS	Yes: location data automatically added to every still image and the first frame in video from built-in GPS



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Video recording in camera Radiometric infrared-video recording RTRR (.csq)		_
Non-radiometric infrared-video recording Visual video recording H.264 to memory card Video streaming Radiometric infrared-video streaming (compressed) Non-radiometric video streaming (compressed) IR, MSX, visual, Picture in Picture) Visual video streaming Visual video streaming Visual video streaming Ves Digital camera Sesolution S MP with LED light Fixed Video lamp Built-in LED light Laser alignment Position is automatically displayed on the infrared image Laser distance meter Activated by a dedicated button Laser Data communication interfaces Interfaces Interfaces Interfaces Interfaces Interfaces Interfaces Interfaces INFFI Per to peer (ad hoc) or infrastructure (network) Audio Microphone and speaker for voice annotation of images USB 12.0 High Speed USB 2.0 High Speed Video out Video out Video connector type DisplayPort Video Connector type Bulletooth + EDR/LE: 2402–2480 MHz WLAN 2.4 GHz: 2412–2462 MHz WLAN 5.4 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) 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. Fire output (EIRP) Battery type Battery type Bechargeable Li-ion battery	Video recording in camera	
Video streaming Radiometric infraredvideo streaming (compressed: IF, MSX, visual, Picture in Picture) Video streaming (compressed: IF, MSX, visual, Picture in Picture) Visual video streaming (compressed: IF, MSX, visual, Picture in Picture) Visual video streaming Ves Digital camera Resolution 5 MP with LED light Focus Fixed Fixed Fixed Fixed Fixed Video lamp Built-in LED light Laser pointer Laser distance meter Laser distance meter Laser distance meter Laser (Class 2, 0.05–40 m (1.6–131 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 ype-C: data transfer/video/power Video out DisplayPort Video connector type DisplayPort DisplayPort DisplayPort Video connector type DisplayPort over USB Type-C Radio Operating frequency Bluetooth + EDR/LE: 2402–2480 MHz WLAN 2 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	Radiometric infrared-video recording	RTRR (.csq)
Non-radiometric infrared-video streaming (compressed: IR, MSX, visual, Picture in Picture) Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture) Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture) Non-radiometric video streaming Yes Non-radiometric video streaming Yes	Non-radiometric infrared-video recording	H.264 to memory card
Radiometric infrared-video streaming (compressed: IR, MSX, visual, Picture in Picture) Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture) Visual video streaming Yes Digital camera Resolution 5 MP with LED light Focus Fixed Fixed Fixed Field of view 53° × 41° Video lamp Built-in LED light Laser alignment Position is automatically displayed on the infrared image Laser distance meter Activated by a dedicated button Laser Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance Therefaces INETERLINK/Bluetooth Wi-Fi Peer to peer (ad hoc) or infrastructure (network) Audio Microphone and speaker for voice annotation of images USB 2.0 High Speed Video out DisplayPort Video connector type Buetooth + EDR/LE: 2402–2480 MHz WLAN 2.4 GHz: 2412–2462 MHz WLAN 5 GHz: 5150–5350 MHz is for indoor use only see national regulations. RF output (EIRP) Bulteroth + EDR/LE: <10 dBm WLAN: <17 dBm Antenna Integrated PIFA antenna (gain: maximum 1.4 dBi) Power system Battery type Rechargeable Li-ion battery	Visual video recording	H.264 to memory card
Compressed	Video streaming	
IR, MSX, visual, Picture in Picture) - MPEGA over RTSP (Wi-Fi) - MJPEG over UVC and RTSP (Wi-Fi) - MJPEGA over UVC and RTSP		Over UVC
S MP with LED light	J \ 1	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 Laser alignment Position is automatically displayed on the infrared image Laser distance meter Activated by a dedicated button Laser Class 2, 0.05–40 m (1.6–131 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 19pe-C: data transfer/video/power USB 2.0 High Speed Video out USB 2.0 High Speed Video connector type DisplayPort Video connector type DisplayPort over USB Type-C Radio Operating frequency Bluetooth + EDR/LE: 2402–2480 MHz WLAN 2 G Hz: 212–2462 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	Visual video streaming	Yes
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 a dedicated button Laser Class 2, 0.05–40 m (1.6–131 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 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	Digital camera	
Field of view Video lamp Built-in LED light Laser pointer Laser alignment Position is automatically displayed on the infrared image Laser distance meter Activated by a dedicated button Laser Class 2, 0.05–40 m (1.6–131 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 2.0 High Speed Video out USB 2.0 High Speed Video connector type DisplayPort over USB Type-C Radio 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 is for indoor use only, see national regulations. RF output (EIRP) Bluetooth + EDR/LE: < 10 dBm WLAN: < 17 dBm Integrated PIFA antenna (gain: maximum 1.4 dBi) Power system Battery type Rechargeable Li-ion battery	Resolution	5 MP with LED light
Laser pointer Position is automatically displayed on the infrared image Laser distance meter Activated by a dedicated button Laser distance meter Activated by a dedicated button Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance USB 2.0, Bluetooth, Wi-Fi, DisplayPort METERLINK/Bluetooth Communication with headset and external sensors Wi-Fi Peer to peer (ad hac) or infrastructure (network) Audio Microphone and speaker for voice annotation of images USB 2.0 High Speed Video out DisplayPort USB 7ype-C DisplayPort USB 7ype-C DisplayPort USB 7ype-C DisplayPort Video connector type DisplayPort over USB 7ype-C DisplayPort D	Focus	Fixed
Laser pointer Laser alignment Position is automatically displayed on the infrared image Laser distance meter Activated by a dedicated button Class 2, 0.05–40 m (1.6–131 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 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	Field of view	53° × 41°
Laser alignment Position is automatically displayed on the infrared image Laser distance meter Activated by a dedicated button Class 2, 0.05–40 m (1.6–131 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 Type-C: data transfer/video/power USB 2.0 High Speed Video out USB 2.0 High Speed Video connector type 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	Video lamp	Built-in LED light
Laser distance meter Activated by a dedicated button Laser Class 2, 0.05–40 m (1.6–131 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 Type-C: data transfer/video/power USB 2.0 High Speed Video out USB 2.0 High Speed 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	Laser pointer	
Laser Class 2, 0.05–40 m (1.6–131 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 2.0 High Speed Video out USB 2.0 High Speed Video connector type 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	Laser alignment	1
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 Radio 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	Laser distance meter	Activated by a dedicated button
Interfaces USB 2.0, Bluetooth, Wi-Fi, DisplayPort 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 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	Laser	,
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 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	Data communication interfaces	
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	Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort
Audio Microphone and speaker for voice annotation of images 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	METERLiNK/Bluetooth	
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	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 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	Audio	
Video out DisplayPort 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	USB	USB Type-C: data transfer/video/power
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	USB standard	USB 2.0 High Speed
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	Video out	DisplayPort
Derating 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	Video connector type	DisplayPort over USB Type-C
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	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 Antenna Integrated PIFA antenna (gain: maximum 1.4 dBi) Power system Battery type Rechargeable Li-ion battery	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 Antenna Integrated PIFA antenna (gain: maximum 1.4 dBi) Power system Battery type Rechargeable Li-ion battery		WLAN 2.4 GHz: 2412-2462 MHz
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		· · · · · · · · · · · · · · · · · · ·
WLAN: < 17 dBm Antenna Integrated PIFA antenna (gain: maximum 1.4 dBi) Power system Battery type Rechargeable Li-ion battery		
Antenna Integrated PIFA antenna (gain: maximum 1.4 dBi) Power system Battery type Rechargeable Li-ion battery	RF output (EIRP)	Bluetooth + EDR/LE: < 10 dBm
Power system Battery type Rechargeable Li-ion battery		WLAN: < 17 dBm
Battery type Rechargeable Li-ion battery	Antenna	Integrated PIFA antenna (gain: maximum 1.4 dBi)
	Power system	
Battery voltage 3.6 V	Battery type	Rechargeable Li-ion battery
	Battery voltage	3.6 V



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Power system	
Battery operating time	> 2.5 hours at 25°C (68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Charging time (using two-bay charger)	2.5 hours to 90% capacity with charging status indicated by LEDs
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)/two 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 328FCC Part 15.249RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25g (IEC 60068-2-27)
Vibration	2g (IEC 60068-2-6)
Drop	Designed for 2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1
Physical data	
Weight (including battery)	1 kg (2.2 lb.)
Size (L × W × H)	278.4 × 116.1 × 113.1 mm (11.0 × 4.6 × 4.4 in.)
Battery weight	140 g (4.9 oz.)
Battery size (L × W × H)	150 × 46 × 55 mm (5.9 × 1.8 × 2.2 in.)
Tripod mounting	UNC 1/4"-20
Housing material	PCABS with TPE, magnesium
Color	Black
Warranty and service	
Warranty	http://www.flir.com/warranty/



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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:
	Accessory box III:
	 Front protection fastener Hand strap bracket, left Hand strap bracket, right Screws Torx T10 wrench Carabiner hook Front protection Hand strap
	Lanyard strap, cameraLens cap strapWrist 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)
Packaging, weight	5.8 kg (12.8 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254003811
UPC-12	845188016760
Country of origin	Estonia

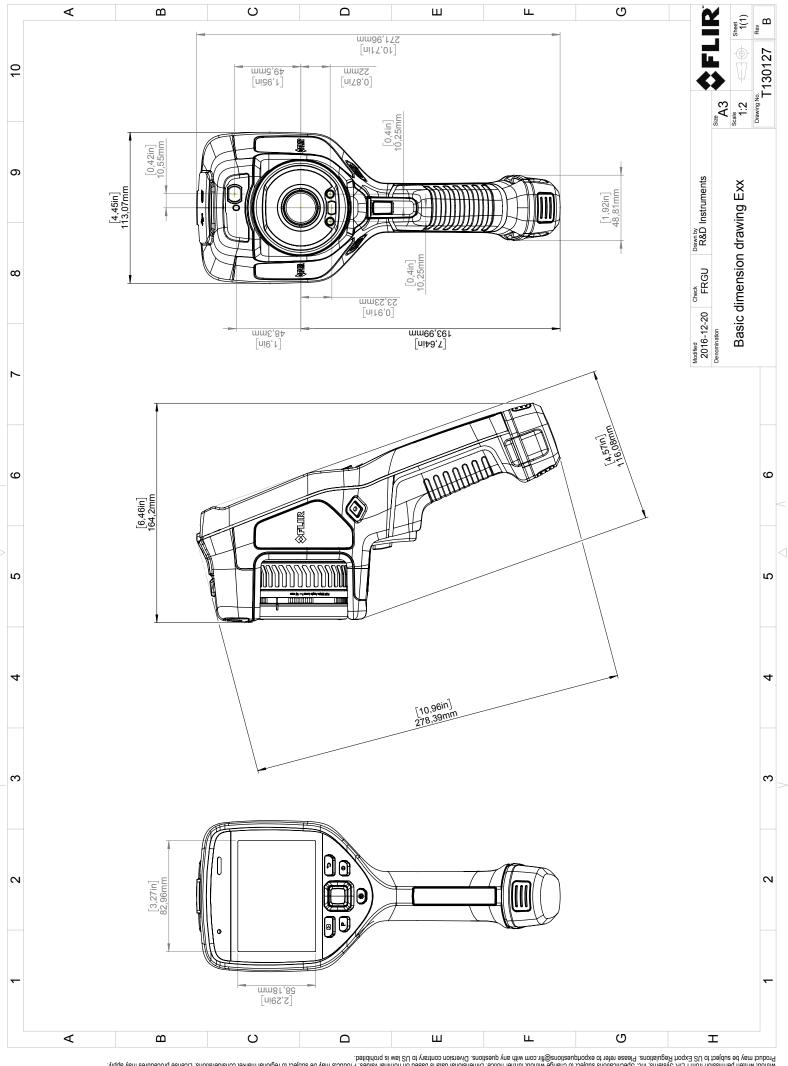
Supplies & accessories:

- T130337ACC; Calibration target
- T199330ACC; Battery
- T199346ACC; Hard transport case
- T199425ACC; Battery charger
- T199557ACC; Accessory Box II
- T199559; High temperature option, +300 to +1000°C
- T199588; Lens 14° + case
- T199589; Lens 24° + case
- T199590; Lens 42° + 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
- T911689ACC; Pouch for FLIR E-series
- 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
- T300030; Option, No radio
- T197771ACC; Bluetooth Headset
- T198583; FLIR Tools+ (download card incl. license key)



P/N: 78501-0101

- 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-0140; Extended Warranty 1 Year for E53, E75, E85, E95
- INST-EWGM-0135; Premium Service Package for A35, A65, E53, E75, E85, E95
- INST-GM-0125; General Maintenance Package for A35, A65, Exx, Kxx



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Product may be subject to US Export Regulations. Please refer to exportdurestiona@filtr.com with any questions. Diversion contrary to US law is prohibited.



February 20, 2018

Täby, Sweden

AQ320222

CE Declaration of Conformity – EU Declaration of Conformity

Product: FLIR E53 /E75 / E85 / E95 -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 E53 / E75 / E85 / E95 -series (Product Model Name FLIR-E7850). 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

2014/53/EU

Radio Equipment Directive (RED)

Directive Directive

1999/519/EC

Limitation of exposure to electromagnetic fields (SAR)

2011/65/EU RoHS and 2015/830/EU

Standards:

Emission:

EN 61000-6-3/A1:2011

Electromagnetic Compability

Generic standards – Emission

Immunity:

EN 61000-6-2:2005

Electromagnetic Compability

Draft EN 301489-1:2016 v2.1.0 Generic standards – Immunity

EN 301489-17:2012 v2.2.1

Laser:

EN 60825-1

Safety of laser products

Radio:

ETSI EN 300 328

Harmonized EN covering essential

requirements of the R&TTE Directive

Information technology equipment

SAR:

EN 62209-2

Human exposure Wireless

Safety (Battery charger):

IEC 60950-1:2005+A1 EN 60950-

1:2006+A11:2009+A1:2010+A2:2013+AC:2011+A12:2011

RoHS:

EN 50581:2012

Technical documentation

FLIR Systems AB Quality Assurance

Lea Dabiri

Quality Manager