

P/N: 78515-1301

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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)	Yes
NETD	 <30 mK, 42° @ +30°C (+86°F) <40 mK, 24° @ +30°C (+86°F)
Field of view	• 42° × 32° • 24° × 18°
Minimum focus distance	• 0.15 m (0.49 ft.), 42° • 0.15 m (0.49 ft.), 24°
Minimum focus distance with MSX	• 0.65 m (2.13 ft.), 42° • 0.5 m (1.64 ft.), 24°
Focal length	• 10 mm (0.39 in.), 42° • 17 mm (0.67 in.), 24°
Spatial resolution (IFOV)	 1.66 mrad/pixel, 42° 0.90 mrad/pixel, 24°
Available extra lenses	14° (AutoCal)
Lens identification	Automatic
f number	• 1.1, 42° • 1.3, 24°
Image frequency	30 Hz

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Imaging and optical data	
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
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	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	 -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%



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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	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
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 (8 GB)
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 built-in microphone and speaker (and via Bluetooth) on still images and video
Text	Text from predefined list or soft keyboard on touchscreen



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Image annotations Yes on infrared images only Visual image sketch Yes on infrared images only Sketch From telesconnection (Bluetooth) to: FLIR meters with METERLINK METERLINK Wire leaves connection (Bluetooth) to: FLIR meters with METERLINK Compass Yes Laser distance meter information Yes Area measurement information Yes Area measurement information Yes OPS Yes: Location data automatically added to every still image and the first frame in video from built-in GPS Video recording in camera RAdiometric infrared-video recording Radiometric infrared-video recording H.264 to memory card Visual video recording H.264 to memory card Video streaming Over UVC Compressed: IR, MSX, visual, Picture in Picture) • H.264 (AVC) over RTSP (Wi-Fi) Wisual video streaming Yes Digital camera • H.264 (AVC) over RTSP (Wi-Fi) Picked • MPEGA over RTSP (Wi-Fi) Visual video streaming Yes Digital camera Fixed Fixed Fixed Fixed Fixed		
Image sketch Sketch From touchscreen METERLINK Wireless connection (Bluetooth) to: FLIR meters with METERLINK Compass 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 Video recording in camera Radiometric infrared-video recording RTRR (.csq) Non-radiometric infrared-video recording H.264 to memory card Video treaming Video streaming Compressed) Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture) Visual video streaming Visual video streaming Position is automatically added to every still image and the first frame in video from built-in GPS Video treaming Non-radiometric infrared-video recording H.264 to memory card Video treaming Video streaming Over UVC Compressed) Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture) Visual video streaming Ves Digital camera Resolution 5 MP with LED light Fixed Fixed Fixed Fixed Fixed Fixed Video lamp Built-in LED light Laser pointer Laser distance meter 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) Microphone and speaker for voice annotation of images USB USB 12, High Speed Video out	Image annotations	
Sketch From touchscreen METERLINK Wireless connection (Bluetooth) to: FLIR meters with METERLINK Compass Yes Laser distance meter information Yes GPS Yes: location data automatically added to every still image and the 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 Video streaming Video streaming Video streaming Video streaming Over UVC Compressed: IR, MSX, visual, Picture in Picture) Visual video streaming (compressed: IR, MSX, visual, Picture in Picture) Visual video streaming Ves Digital camera Fesolution 5 MP with LED light Focus Fixed Field of view 53° x 41° Video lamp Built-in LED light Laser pointer Laser alignment 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 USB USB Type-C: data transfer/video/power USB 1.0 High Speed Video out DisplayPort	Visual image annotation	Yes
METERLINK Wireless connection (Bluetooth) to: FLIR meters with METERLINK Compass Laser distance meter information Yes Area measurement information Yes GPS Ves: location data automatically added to every still image and the first frame in video from built-in GPS Video recording in camera Radiometric infrared-video recording Non-radiometric infrared-video recording H.264 to memory card Visual video recording Radiometric infrared-video streaming (compressed) Voer UVC Voer UVC Voer UVC View over RTSP (Wi-Fi) MPEG over UVC and RTSP (Wi-Fi) MPEG over UVC and RTSP (Wi-Fi) MPEG over UVC and RTSP (Wi-Fi) Wisual video streaming Ves Digital camera Resolution 5 MP with LED light Focus Fixed Fixed S3* × 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 Data communication interfaces Interfaces USB 2.0, Bluetooth, Wi-Fi, DisplayPort METERLINK/Bluetooth Audio Wise Just Pyper C: data transfer/video/power USB 2.0 High Speed Video out DisplayPort	Image sketch	Yes: on infrared images only
FLIR meters with METERLINK Compass Yes Laser distance meter information Yes Area measurement information Yes GPS Yes Ves Ves	Sketch	From touchscreen
Laser distance meter information Ves Area measurement information Yes Yes: location data automatically added to every still image and the first frame in video from built-in GPS Video recording in camera Radiometric infrared-video recording Non-radiometric infrared-video recording Video streaming Video streaming Video streaming Radiometric infrared-video streaming (compressed: IR, MSX, visual, Picture in Picture) Visual video return in Picture) Visual video streaming Over UVC (compressed) Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture) Visual video streaming Visual video s	METERLINK	Wireless connection (Bluetooth) to:
Area measurement information Area measurement information Yes Ves: location data automatically added to every still image and the 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 Video streaming Radiometric infrared-video streaming (compressed: IR, MSX, visual, Picture in Picture) Video streaming Pigital camera Resolution S MP with LED light Fixed Fixed Fixed Built-in LED light Laser alignment Laser alignment Position is automatically displayed on the infrared limage Data communication interfaces Interfaces USB 2.0, Bluetooth, Wi-Fi, DisplayPort Audio WisB standard USB 2.0 High Speed Video lysip Speed Video lysip Speed Video out DisplayPort		FLIR meters with METERLINK
Area measurement information GPS Yes: location data automatically added to every still image and the first frame in video from built-in GPS Video recording in camera Radiometric infrared-video recording 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: IR, MSX, visual, Picture in Picture) Vigeo streaming Radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture) Visual video streaming Ves Digital camera Resolution 5 MP with LED light Focus 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 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 METERLINIK/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 Video out DisplayPort	Compass	Yes
Yes: location data automatically added to every still image and the 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: IR, MSX, visual, Picture in Picture) Visual video streaming (compressed: IR, MSX, visual, Picture in Picture) Visual video streaming (compressed: MPEGA over RTSP (Wi-Fi) MPEGA over RTSP (Wi-Fi) MPEGA over RTSP (Wi-Fi) MPEGA over LVC and RTSP (Wi-Fi) MPEGA over LTC and RTSP (W	Laser distance meter information	Yes
Still image and the first frame in video from builf-in GPS		
Radiometric infrared-video recording 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 ver RTSP (Wi-Fi)	GPS	still image and the first frame in video from built-in
Non-radiometric infrared-video recording Visual video recording H.264 to memory card Video streaming 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 S MP with LED light Focus Fixed Field of view 53° x 41° Video lamp Built-in LED light Laser pointer Laser alignment Position is automatically displayed on the infrared image Laser distance meter Laser USB 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 Microphone and speaker for voice annotation of images USB USB Type-C: data transfer/video/power USB standard Video out DisplayPort	Video recording in camera	
Video streaming Radiometric infrared-video streaming (compressed: IR, MSX, visual, Picture in Picture) Visual video streaming Pigital camera Resolution Focus Fixed Field of view Video lamp Laser pointer Laser distance meter Laser Laser Data communication interfaces Interfaces Interfaces USB 2.0, Bluetooth, Wi-Fi, DisplayPort METERLINK/Bluetooth Microphone and speaker for voice annotation of images USB standard Video out Video ver UVC H. 2.64 (AVC) over RTSP (Wi-Fi) H. 2.64 (AVC)	Radiometric infrared-video recording	RTRR (.csq)
Video streaming	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) Pigital camera Resolution S MP with LED light Fixed Fixed Fixed S3° x 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 USB 2.0 High Speed Video out DisplayPort	Visual video recording	H.264 to memory card
(compressed) Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture) Pigital camera Resolution Focus Fixed Field of view S3° x 41° Video lamp Built-in LED light Laser pointer Laser distance meter Laser distance meter Laser Laser Data communication interfaces Interfaces USB 2.0, Bluetooth, Wi-Fi, DisplayPort METERLINK/Bluetooth Audio Microphone and speaker for voice annotation of images USB 109 High Speed Video lout Video view NH.264 (AVC) over RTSP (Wi-Fi) NHPEG4 over UVC and RTSP (Wi-F	Video streaming	
IR, MSX, visual, Picture in Picture) ** H.264 (AVC) Over RTSF (Wi-Fi) ** MPEG4 over RTSP (Wi-Fi) ** MJPEG over UVC and R		Over UVC
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 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		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 USB Type-C: data transfer/video/power USB standard USB 2.0 High Speed Video out DisplayPort	Visual video streaming	Yes
Focus Fixed Field of view 53° x 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 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 standard USB 2.0 High Speed Video out DisplayPort	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 Type-C: data transfer/video/power USB standard USB 2.0 High Speed Video out	Resolution	5 MP with LED light
Video lamp Built-in LED light Laser pointer 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	Focus	Fixed
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 Type-C: data transfer/video/power USB standard USB 2.0 High Speed Video out DisplayPort	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 standard USB 2.0 High Speed Video out	Video lamp	Built-in LED light
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 standard USB 2.0 High Speed Video out DisplayPort	Laser pointer	
Laser Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance 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 standard USB 2.0 High Speed Video out DisplayPort	Laser alignment	
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	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 USB Type-C: data transfer/video/power USB standard USB 2.0 High Speed Video out DisplayPort	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 Type-C: data transfer/video/power USB standard USB 2.0 High Speed Video out DisplayPort	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	Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort
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	METERLiNK/Bluetooth	
USB Type-C: data transfer/video/power USB standard USB 2.0 High Speed Video out DisplayPort	Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
USB standard USB 2.0 High Speed Video out DisplayPort	Audio	· ·
Video out DisplayPort	USB	USB Type-C: data transfer/video/power
	USB standard	USB 2.0 High Speed
Video connector type DisplayPort over USB Type-C	Video out	DisplayPort
	Video connector type	DisplayPort over USB Type-C



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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	> 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	25–40°C (77–104°F)/two cycles • 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)
EMC Radio spectrum	 ETSI EN 301 489-1 (radio) ETSI EN 301 489-17 EN 61000-6-2 (immunity) EN 61000-6-3 (emission)
	 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) ETSI EN 300 328 ETSI EN 301 893 FCC 47 CFR part 15 C
Radio spectrum	 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) ETSI EN 300 328 ETSI EN 301 893 FCC 47 CFR part 15 C FCC 47 CFR part 15 E
Radio spectrum Encapsulation	 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) ETSI EN 300 328 ETSI EN 301 893 FCC 47 CFR part 15 C FCC 47 CFR part 15 E IP 54 (IEC 60529)
Radio spectrum Encapsulation Shock	 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) ETSI EN 300 328 ETSI EN 301 893 FCC 47 CFR part 15 C FCC 47 CFR part 15 E IP 54 (IEC 60529) 25g (IEC 60068-2-27)
Radio spectrum Encapsulation Shock Vibration	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) ETSI EN 300 328 ETSI EN 301 893 FCC 47 CFR part 15 C FCC 47 CFR part 15 E IP 54 (IEC 60529) 25g (IEC 60068-2-27) 2g (IEC 60068-2-6)
Radio spectrum Encapsulation Shock Vibration Drop	 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) ETSI EN 300 328 ETSI EN 301 893 FCC 47 CFR part 15 C FCC 47 CFR part 15 E IP 54 (IEC 60529) 25g (IEC 60068-2-27) 2g (IEC 60068-2-6) Designed for 2 m (6.6 ft.)
Radio spectrum Encapsulation Shock Vibration Drop	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) ETSI EN 300 328 ETSI EN 301 893 FCC 47 CFR part 15 C FCC 47 CFR part 15 E IP 54 (IEC 60529) 25g (IEC 60068-2-27) 2g (IEC 60068-2-6) Designed for 2 m (6.6 ft.) Camera:
Radio spectrum Encapsulation Shock Vibration Drop	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) ETSI EN 300 328 ETSI EN 301 893 FCC 47 CFR part 15 C FCC 47 CFR part 15 E IP 54 (IEC 60529) 25g (IEC 60068-2-27) 2g (IEC 60068-2-6) Designed for 2 m (6.6 ft.) Camera: IEC/EN 60950-1, IEC/EN 62368-1

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Physical data	
Weight (including battery)	1 kg (2.2 lb.)
	<u> </u>
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/
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, camera Lens cap strap Wrist strap Battery (2 ea) Battery (2 ea) Battery charger Extra lens, 42° FLIR Thermal Studio Starter Hard transport case Infrared camera with lens Lens cap, front Lens cap, front and rear (only for extra lenses)
Packaging, weight	6.2 kg (13.7 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254004702
UPC-12	845188022709
Country of origin	Estonia

Supplies & accessories:

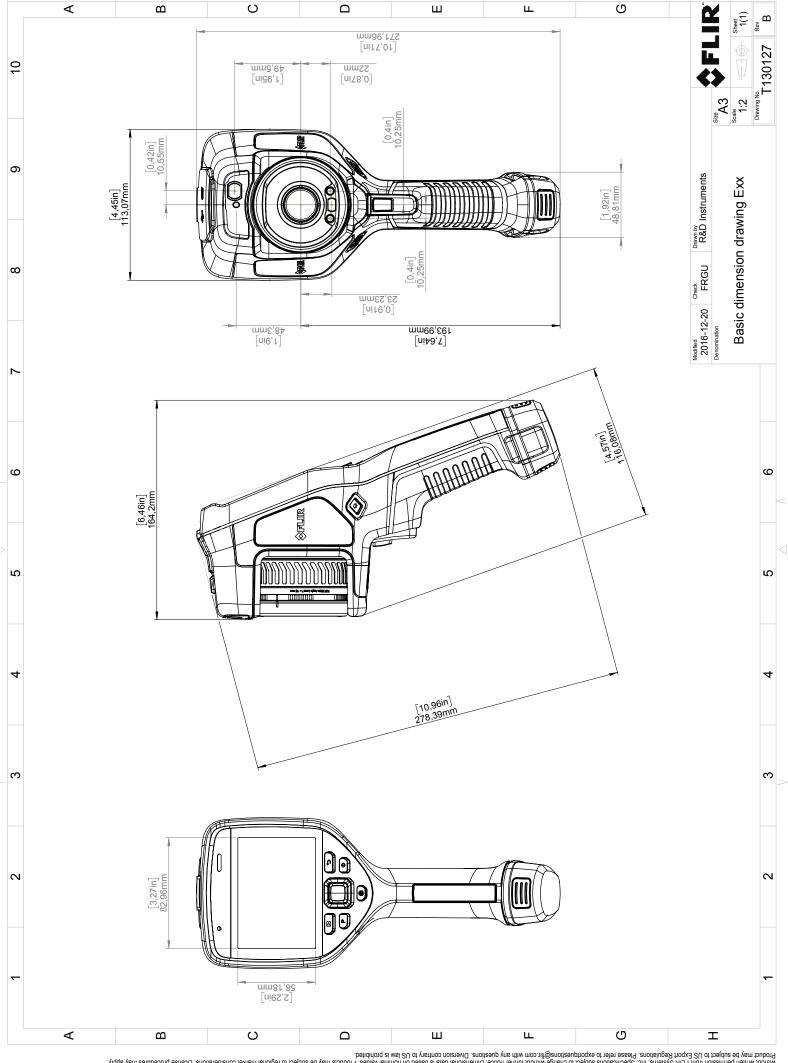
- T300238; Macro lens 2.0x with case
- T131171ACC; Remote operation button
- T300030; Option, No radioT911997; Tripod

\$FLIR°

FLIR E86 24° + 42°

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- T911998; HDMI 2-port video splitter
- T300369; Mounting kit (FLIR T5xx, T8xx, Exx)
- T850111; Option, Dual streaming
- T130337ACC; Calibration target
- T199330ACC; Battery
- T199346ACC; Hard transport case for FLIR Exx series
- T199425ACC; Battery charger
- T199557ACC; Accessory Box II
- 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
- 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
- T197771ACC; Bluetooth Headset
- T300244; FLIR Route Creator Plugin for FLIR Thermal Studio Pro, 1 Year Subscription
- T300342; FLIR Screen-EST, Perpetual license
- 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)
- 4232535; FLIR Research Studio, Professional Edition 1 Year Subscription (online activation)
- 4232556; FLIR Research Studio, Professional Edition Perpetual License (online activation)
- 4232590; FLIR Research Studio, Professional Edition Perpetual License (USB dongle)
- · 4232557; FLIR Research Studio, Professional Edition USB dongle only
- 4220499; FLIR Research Studio, Standard Edition 1 Year Subscription (online activation)
- 4220500; FLIR Research Studio, Standard Edition Perpetual License (online activation)
- 4220646; FLIR Research Studio, Standard Edition Perpetual License (USB dongle)
- 24971-010; FLIR Research Studio, Standard Edition USB dongle only
- 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)
- 4232591; FLIR ResearchIR to Research Studio, Professional Edition 1 Year License Upgrade
- 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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July 07, 2021 Täby, Sweden AQ320222

CE Declaration of Conformity - EU Declaration of Conformity

Product: FLIR E53 /E54 /E75 /E76 /E85 /E86 /E95 /E96 -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 /E54 /E75 /E76 /E85 /E86 / E95 /E96-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 1999/519/EC Limitation of exposure to electromagnetic fields (SAR)

Directive 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 v2.2.2 Harmonized EN covering essential

requirements of the R&TTE Directive

ETSI EN 301 893 v1.8.1 Harmonized EN covering essential regs

SAR: EN 62209-2 Human exposure Wireless

Safety (Battery charger): Information technology equipment

IEC 62368-1: 2014 (2.Edition) and Cor. 1: 2015

EN 62368-1: 2014/AC: 2015/A11: 2017/AC:2017

RoHS: EN 50581:2012 Technical documentation

FLIR Systems AB

Quality Assurance

Lea Dabiri

Quality Manager