

P/N: 78513-1101

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Website

http://www.flir.com

Customer support http://support.flir.com

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Imaging and optical data	
Infrared resolution	320 × 240 pixels
UltraMax (super-resolution)	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)	2.41 mrad/pixel
Available extra lenses	24° (AutoCal) 14° (AutoCal)
Lens identification	Automatic
f number	1.1
Image frequency	30 Hz
Focus	Continuous LDMOne-shot LDMOne-shot contrastManual
Field of view match	Yes
Digital zoom	1–4× continuous

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Detector data		
Detector pitch 17 μm Image presentation 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 maximum Automatic minimum Automatic minimum Automatic minimum Manual Image presentation modes Infrared image Yes Visual image Yes Measurement Camera temperature range 20 to 120°C (-4 to 248°F) Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F) Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F) Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F) Object temperature range and accuracy (for ambient temp. 15 to 35°C (210 to 248°F) Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F) Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F) Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F) Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F) Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F) Object temperature range and accuracy (for ambient temp. 15 to 35°C (210 to 248°F) Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F) Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F) Object temperature range and accuracy (for ambient temp. 15 to 35°C (210 to 248°F) Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F) Object temperature range and accuracy (for ambient temp. 15 to 35	Detector data	
Mage presentation	Focal plane array/spectral range	Uncooled microbolometer/7.5–14 μm
Resolution	Detector pitch	17 μm
Surface brightness (cd/m²) 400	Image presentation	
Screen size Viewing angle 80° Color depth (bits) 24 Aspect ratio 4:3 Auto-rotation Yes Touchscreen Optically bonded PCAP Display technology IPS Cover glass material Programmable buttons Image adjustment **Automatic maximum** **Automatic maximum** **Automatic minimum** **Manual **Manual Image presentation modes Infrared image Yes Visual image Yes Visual image Yes Picture in Picture Gaillery Measurement Camera temperature range **Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F) **Optional Sou to 100°C (32 to 1202°F): ±2°C (±3.6°F) **Optional Range 30 to 100°C (21 to 1202°F): ±2°C (±3.6°F) **Optional Range 30 to 100°C (672 to 1832° F): ±2°S **Picture in Picture **Page 20 to 120°C (-4 to 248°F): 20 to 100°C (21 to 1202°F): ±2°C (±3.6°F) **Optional Range 30 to 100°C (32 to 1202°F): ±2°C (±3.6°F) **Optional Range 30 to 100°C (572 to 1832° F): ±2°S **Picture in Picture **Page 30 to 650°C (21 to 1202°F): ±2°C (±3.6°F) **Optional Range 300 to 1000°C (572 to 1832° F): ±2°S **Picture in Picture and accuracy (for ambient temp. 15 to 35°C (59 to 95°F) **Optional Range 300 to 1000°C (572 to 1832° F): ±2°S **Picture in Picture and accuracy (for ambient temp. 15 to 35°C (59 to 95°F) **Optional Range 300 to 1000°C (572 to 1832° F): ±2°S **Picture in Picture and accuracy (for ambient temp. 15 to 35°C (59 to 95°F) **Optional Range 300 to 1000°C (572 to 1832° F): ±2°S **Picture in Picture and accuracy (for ambient temp. 15 to 35°C (59 to 95°F) **Optional Range 300 to 1000°C (572 to 1832° F): ±2°S **Picture in Picture and accuracy (for ambient temp. 15 to 35°C (59 to 95°F) **Picture in Picture and accuracy (for ambient temp. 15 to 35°C (59 to 95°F) **Picture in Picture and accuracy (for ambient temp. 15 to 35°C (59 to 95°F) **Picture in Picture and accuracy (for ambient temp. 15 to 35°C (59 to 95°F) **Picture in Picture and accuracy (for ambient temp. 15 to 120°C (-4 to 248°F): 20°C (±4.56°F) **Optional Range 40 to 120°C (-4 to 120°F): 22°C (±3.6°F) **	Resolution	640 × 480 pixels (VGA)
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 Ilmage adjustment No Image adjustment • Automatic maximum • Automatic minimum • Manual Image presentation modes • Automatic minimum • Manual Infrared image Yes Visual image Yes Visual image Yes Picture in Picture Resizable and movable Gallery Yes Measurement • -20 to 120°C (-4 to 248°F) • 0 to 55°C (32 to 1202°F) • 0 to 55°C (32 to 1202°F) • 0 to 55°C (32 to 1202°F) • 0 to 55°C (32 to 1832°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) • 0 to 100°C (32 to 122°F): ±2°C (±3.6°F) • 100 to 120°C (212 to 248°F) • 20 to 100 to 20°C (212 to 248°F) • 0 to 100 to 650°C (212 to 1202°F): ±2°C (±3.6°F) • 100 to 120°C (212 to 248°F) • 20 to 100 to 650°C (212 to 1202°F): ±2°C (±3.6°F) • 100 to 650°C (212 to 1202°F): ±2°C (±3.6°F) • 100 to 650°C (212 to 1202°F): ±2°C (±3.6°F) • 100 to 650°C (212 to 1202°F): ±2°C (±3.6°F) • 100 to 650°C (212 to 1202°F): ±2°C (±3.6°F) • 100 to 650°C (212 to 1202°F): ±2°C (±3.	Surface brightness (cd/m²)	400
Aspect ratio	Screen size	4 in.
Aspect ratio Auto-rotation Yes Touchscreen Optically bonded PCAP Display technology IPS Cover glass material Programmable buttons 1 Viewfinder No Image adjustment Automatic Automatic Automatic maximum Automatic minimum Manual Image presentation modes Infrared image Yes Visual image Yes Visual image Yes Picture in Picture Resizable and movable Gallery Yes Measurement Camera temperature range Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F) Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F) Object temperature range Inspection mode FLIR Inspection route Enabled in the camera Measurement Measurement Inspection mode FLIR Inspection route Enabled in the camera Area 3 in live mode Area 3 in live mode	Viewing angle	80°
Auto-rotation Yes Touchscreen Optically bonded PCAP Display technology IPS Cover glass material Programmable buttons 1 Viewfinder No Image adjustment Automatic Automatic Automatic maximum Automatic minimum Manual Image presentation modes Infrared image Yes Visual 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) Optional 300 to 1000°C (572 to 1832°F) Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F) Object temperature range Range 0 to 650°C (32 to 1202°F) Optional 300 to 1000°C (-4 to 248°F): - 20 to 100°C (-4 to 248°F): ±2°C (±3.6°F) 100 to 120°C (212 to 1202°F): ±2°C (±3.6°F) 100 to 650°C (32 to 1202°F): ±2°C (±3.6°F) 100 to 120°C (212 to 1202°F): ±2°C (±3.6°F) 100 to 650°C (32 to 1202°F): ±2°C (±3.6°F) 10	Color depth (bits)	24
Touchscreen Optically bonded PCAP Display technology IPS Cover glass material Dragontrail® Programmable buttons 1 Viewfinder No Image adjustment • Automatic • Automatic • Automatic maximum • Automatic minimum • Automatic	Aspect ratio	4:3
Display technology Cover glass material Programmable buttons 1 Viewfinder No Image adjustment Automatic Automatic maximum Automatic minimum Manual Image presentation modes Infrared image Ves Visual image Yes Thermal fusion MSX Yes Picture in Picture Gallery Measurement Camera temperature range - 20 to 120°C (-4 to 248°F) 0 to 650°C (32 to 1202°F) 0 piton to 100°C (572 to 1832°F) - 20 to 100°C (-4 to 212°F); ±2°C (±3.6°F) 0 to 100°C (32 to 212°F); ±2°C 100 to 650°C (32 to 212°F); ±2°C 100 to 100°C 110 to 100°C 110 to 100°C 110 to 100°C 111 to 248°F); ±2°C 110 to 100°C 111 to 200°F); ±2°C 111 to 200°F); ±2°C 111 to 200°F); ±2°C 111 to 200°F); ±2°C 112 to 200°F); ±2°C 113 to 200°F); ±2°C 113 to 200°F); ±2°C 113 to 200°F); ±2°C 114 to 248°F); ±2°C 115 to 200°F); ±2°C 115 to 200°F)	Auto-rotation	Yes
Dragontrail® Programmable buttons I Viewfinder Image adjustment Automatic Automatic maximum Automatic minimum Manual Image presentation modes Infrared image Yes Visual image Yes Thermal fusion MSX Yes Picture in Picture Resizable and movable Gallery Yes Measurement Camera temperature range -20 to 120°C (-4 to 248°F) Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F) Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F) Range 0 to 650°C (32 to 1202°F): ±2°C (±3.6°F) 100 to 120°C (-4 to 212°F): ±2°C (±3.6°F) 100 to 550°C (32 to 1202°F): ±2°C Page 100 to 120°C (-4 to 248°F): 25% Page 20 to 100°C (-4 to 248°F): 25% Optional Range 300 to 1000°C (572 to 1832° F): 100 to 550°C (212 to 1202°F): ±2°C Optional Range 300 to 1000°C (572 to 1832° F): ±2°C Inspection mode FLIR Inspection route Enabled in the camera Measurement analysis Spotmeter Area 3 in live mode	Touchscreen	Optically bonded PCAP
Programmable buttons 1 Viewfinder No Image adjustment • Automatic examinum examin	Display technology	IPS
Viewfinder 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) 0 Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F) Range -20 to 100°C (-4 to 248°F): ±2°C (±3.6°F) 100 to 120°C (212 to 248°F): ±2°C (±3.6°F) 100 to 650°C (22 to 1202°F): ±2°C (±3.6°F) 100 to 650°C (212 to 1202°F): ±2°C (±3.6°F) 100 to 650°C (212 to 1202°F): ±2°C 100 to 650°C (212 to 120°C (212 to 1202°F): ±2°C 100 to 650°C (212 to 120°C (212 to 120°C F): ±2°C 100 to 650°C (212 to 120°C F):	Cover glass material	Dragontrail®
Image adjustment Automatic 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) 0 Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F) Range -20 to 100°C (-4 to 248°F): - 20 to 100°C (-4 to 248°F): - 20 to 100°C (-4 to 248°F): - 3 to 650°C (32 to 1202°F) - 100 to 120°C (-3 to 248°F): - 40 to 100°C (-4 to 248°F): - 40 to 100°C (-4 to 248°F): - 5 to 100°C (-4 to 248°F): - 6 to 100°C (32 to 1202°F): - 100 to 120°C (-3 to 1202°F): - 100 to 650°C (32 to 1202°F): - 100 to 650°C (32 to 1202°F): - 100 to 650°C (212 to 1202°F): - 28 to 100°C (-3 to 1202°F): - 100 to 650°C (212 to 1202°F): - 28 to 100°C (-3 to 1202°F): - 100 to 650°C (212 to 1202°F): - 28 to 100°C (-3 to 1202°F): - 29 to 100°C (-3 to 1202°F): - 20 to 100°C (-4 to 248°F): - 20 to 100°C (-4 to 248°F): - 20 to 100°C (-4 to 248°F): - 20 to 100°C (-4 to 1202°F): - 20 to 100°C (-4 to 248°F): - 20 to 100°C	Programmable buttons	1
Automatic maximum Automatic minimum Manual Image presentation modes Infrared image Yes Visual image Yes Thermal fusion MSX Yes Picture in Picture Gallery Measurement Camera temperature range 20 to 120°C (-4 to 248°F) 0 to 650°C (32 to 1202°F) 0 to 650°C (32 to 1202°F) 0 to 650°C (32 to 1202°F) 0 to 100°C (-4 to 248°F):20 to 100°C (-4 to 248°F):	Viewfinder	No
Infrared image	Image adjustment	Automatic maximumAutomatic minimum
Visual image Yes Thermal fusion No MSX Yes Picture in Picture Resizable and movable Gallery Yes Measurement -20 to 120°C (-4 to 248°F) • 0 to 650°C (32 to 1202°F) • 0 potional 300 to 1000°C (572 to 1832°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): • 0 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 1202°F): ±2°C (±3.6°F) • 100 to 650°C (212 to 1202°F): ±2°C • 100 to 650°C (212 to 1202°F): ±2°C • Optional Range 300 to 1000°C (572 to 1832° F): ±2% Inspection mode Enabled in the camera Measurement analysis Spotmeter Area 3 in live mode	Image presentation modes	
No MSX Yes	Infrared image	Yes
NSX	Visual image	Yes
Picture in Picture Resizable and movable	Thermal fusion	No
Measurement • -20 to 120°C (-4 to 248°F) • 0 to 650°C (32 to 1202°F) • Optional 300 to 1000°C (572 to 1832°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): -20 to 100°C (32 to 212°F): ±2°C (±3.6°F) • 100 to 650°C (212 to 1202°F): ±2% • Optional Range 300 to 1000°C (572 to 1832°F): ±2% • Optional Range 300 to 1000°C (572 to 1832°F): ±2% • Spotmeter Inspection mode Enabled in the camera Measurement analysis 3 in live mode Area 3 in live mode	MSX	Yes
Measurement • −20 to 120°C (−4 to 248°F) • 0 to 650°C (32 to 1202°F) • Optional 300 to 1000°C (572 to 1832°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°C (±3.6°F) • 100 to 120°C (212 to 1202°F): ±2°C • Range 0 to 650°C (32 to 1202°F): • 0 to 100°C (32 to 212°F): ±2°C • Optional Range 300 to 1000°C (572 to 1832°F): • Optional Range 300 to 1000°C (572 to 1832°F): ±2% • Optional Range 300 to 1000°C (572 to 1832°F): • Enabled in the camera Spotmeter Area 3 in live mode	Picture in Picture	Resizable and movable
Camera temperature range • −20 to 120°C (−4 to 248°F) • 0 to 650°C (32 to 1202°F) • Optional 300 to 1000°C (572 to 1832°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) • 0 to 100°C (32 to 212°F): ±2°C (±3.6°F) • 100 to 650°C (212 to 1202°F): ±2% • Optional Range 300 to 1000°C (572 to 1832°F): ±2% • Optional Range 300 to 1000°C (572 to 1832°F): ±2% Inspection mode Enabled in the camera Measurement analysis Spotmeter 3 in live mode Area 3 in live mode	Gallery	Yes
Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F)	Measurement	
### Ambient temp. 15 to 35°C (59 to 95°F) #### Hange = 20 to 120°C (=4 to 248°F): -20 to 100°C (=4 to 212°F): ±2°C (±3.6°F) 100 to 120°C (212 to 248°F): ±2% #### Range 0 to 650°C (32 to 1202°F): 0 to 100°C (32 to 212°F): ±2°C (±3.6°F) 100 to 650°C (212 to 1202°F): ±2% Optional Range 300 to 1000°C (572 to 1832°F): ±2% ###################################	Camera temperature range	• 0 to 650°C (32 to 1202°F)
FLIR Inspection route Enabled in the camera Measurement analysis Spotmeter 3 in live mode Area 3 in live mode		 -20 to 100°C (-4 to 212°F): ±2°C (±3.6°F) 100 to 120°C (212 to 248°F): ±2% Range 0 to 650°C (32 to 1202°F): 0 to 100°C (32 to 212°F): ±2°C (±3.6°F) 100 to 650°C (212 to 1202°F): ±2% Optional Range 300 to 1000°C (572 to 1832°
Measurement analysis Spotmeter 3 in live mode Area 3 in live mode	Inspection mode	
Spotmeter 3 in live mode Area 3 in live mode	FLIR Inspection route	Enabled in the camera
Area 3 in live mode	Measurement analysis	
	Spotmeter	3 in live mode
Automatic hot/cold detection Auto-maximum/minimum markers within area	Area	3 in live mode
	Automatic hot/cold detection	Auto-maximum/minimum markers within area



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Measurement analysis	
Measurement presets	No measurements Center spot Hot spot Cold spot User preset 1 User preset 2
Difference temperature	Yes
Reference temperature	Yes
Emissivity correction	Yes: variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Yes
External optics/windows correction	Yes
Alarm	
Color alarm (isotherm)	Above Below Interval Condensation (moisture/humidity/dewpoint) Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Set-up	
Color palettes	 Arctic White hot Black hot Iron Lava Rainbow Rainbow HC
Setup commands	Local adaptation of units, language, date and time formats
Languages	21
Service functions	<u></u>
Camera software update	Using USB cable or SD card
Storage of images	T T
Storage media	Removable memory; SD card (8 GB)
Time lapse (periodic image storage)	No
Remote control operation	Using USB cable or Wi-Fi
Image file format	Standard JPEG, measurement data included. Infrared-only mode
Image annotations	T
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



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Image annotations	
Compass	Yes
Laser distance meter information	Yes
Area measurement information	No
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
Visual video recording	H.264 to memory card
Video streaming	
Radiometric infrared–video streaming (compressed)	Over UVC
Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)	H.264 (AVC) over RTSP (Wi-Fi) MPEG4 over RTSP (Wi-Fi) MJPEG over UVC and RTSP (Wi-Fi)
Visual video streaming	Yes
Digital camera	
Resolution	5 MP with LED light
Focus	Fixed
Field of view	53° × 41°
Video lamp	Built-in LED light
Laser pointer	
Laser alignment	Position is automatically displayed on the infrared image
Laser alignment Laser distance meter	
<u> </u>	image
Laser distance meter	image Activated by a dedicated button Class 2, 0.05–40 m (1.6–131 ft.) ±1% of
Laser distance meter Laser	image Activated by a dedicated button Class 2, 0.05–40 m (1.6–131 ft.) ±1% of
Laser distance meter Laser Data communication interfaces	image Activated by a dedicated button Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance
Laser distance meter Laser Data communication interfaces Interfaces	image 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 Communication with headset and external
Laser distance meter Laser Data communication interfaces Interfaces METERLiNK/Bluetooth	image 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 Communication with headset and external sensors
Laser distance meter Laser Data communication interfaces Interfaces METERLiNK/Bluetooth Wi-Fi	image 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 Communication with headset and external sensors Peer to peer (ad hoc) or infrastructure (network) Microphone and speaker for voice annotation of
Laser distance meter Laser Data communication interfaces Interfaces METERLiNK/Bluetooth Wi-Fi Audio	image 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 Communication with headset and external sensors Peer to peer (ad hoc) or infrastructure (network) Microphone and speaker for voice annotation of images
Laser distance meter Laser Data communication interfaces Interfaces METERLiNK/Bluetooth Wi-Fi Audio USB	image 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 Communication with headset and external sensors Peer to peer (ad hoc) or infrastructure (network) Microphone and speaker for voice annotation of images USB Type-C: data transfer/video/power

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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	ETSI EN 301 489-1 (radio) ETSI EN 301 489-17
	 EN 61000-6-2 (immunity) EN 61000-6-3 (emission) FCC 47 CFR part 15 B, class B (emission)
Radio spectrum	 EN 61000-6-3 (emission)
Radio spectrum Encapsulation	 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
	 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
Encapsulation	 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)
Encapsulation Shock	 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)
Encapsulation Shock Vibration	 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)
Encapsulation Shock Vibration Drop	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.)
Encapsulation Shock Vibration Drop	 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:

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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/
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 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 charger 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	5.8 kg (12.8 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254004610
UPC-12	845188022617
Country of origin	Estonia

Supplies & accessories:

- T300238; Macro lens 2.0x with case
- T131171ACC; Remote operation button
- T300030; Option, No radio
- T911997; Tripod
- T911998; HDMI 2-port video splitter

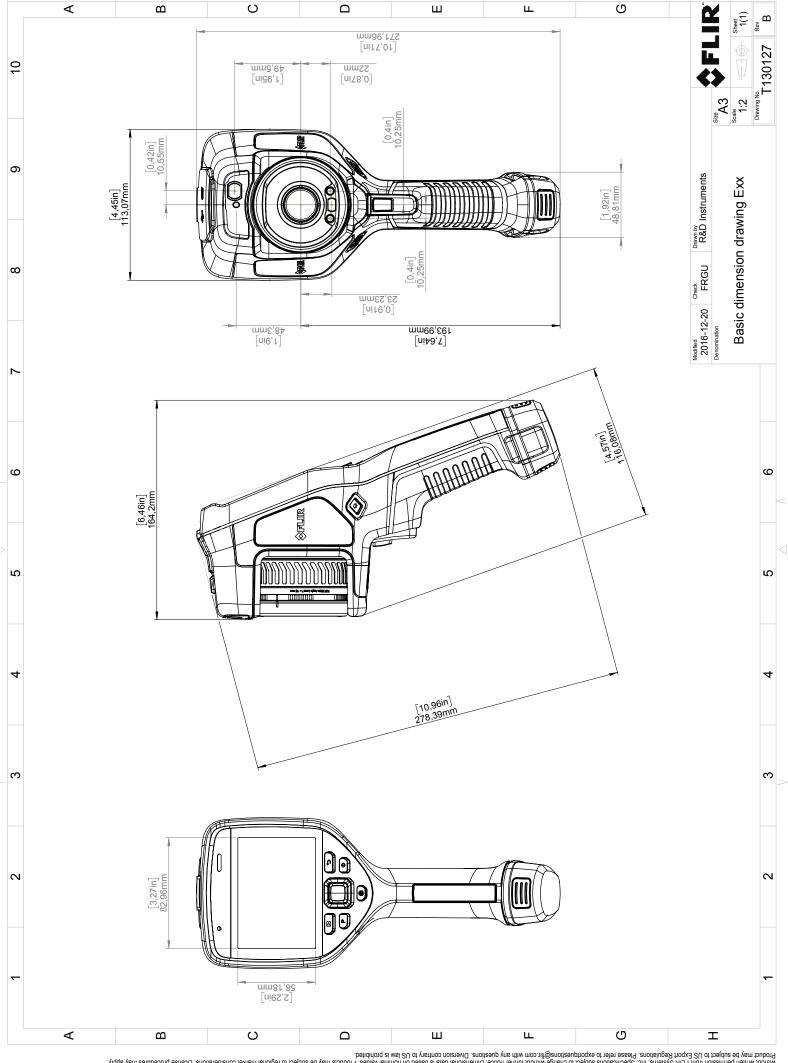
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FLIR E76 42°

P/N: 78513-1101

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- 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
- T199559; High temperature option, +300 to +1000°C
- 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