

FLIR E75 24°

P/N: 78502-0101

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Document identity

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Website

http://www.flir.com

Customer support

http://support.flir.com

Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to exportquestions@flir.com with any questions.



Imaging and optical data	
Infrared resolution	320 × 240 pixels
UltraMax (super-resolution)	In FLIR Tools
NETD	<40 mK @ +30°C (+86°F)
Field of view	24° × 18°
Minimum focus distance	0.15 m (0.49 ft.)
Minimum focus distance with MSX	0.5 m (1.64 ft.)
Focal length	17 mm (0.67 in.)
Spatial resolution (IFOV)	1.31 mrad/pixel
Available extra lenses	 42° (AutoCal) 14° (AutoCal)
Lens identification	Automatic
f number	1.3
Image frequency	30 Hz
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/m ²)		400	· ·
Screen size		4 in.	
Viewing angle		80°	
Color depth (bits)		24	
Aspect ratio		4:3	
Auto-rotation		Yes	
Touchscreen		Optically bonde	d 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 Present 2	Measurement analysis	
No measurements - Center spot Hot spot - Cold spot User preset 2 - 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 Screening 0.5°C (0.9°F) accuracy @ 37°C (98.6°F) with reference Alarm - Color alarm (isotherm) Color alarm (isotherm) - Above • Below - Interval • Interval - Condensation (moisture/humidity/dewpoint) • Insulation - Gray Set-up - Voice Color palettes - Iron • Gray - Rainbow HC Setup commands Local adaptation of units, language, date and time formats Languages 21 Setup commands Local adaptation of units, language, date and time formats		
• Hot spat • Cold spot • User preset 1 • User preset 2 Difference temperature Yes Emissivity correction Yes 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 • Interval • Condensation (moisture/humidity/dewpoint) • Interval • Color palettes • Iron • Gray • Rainbow • Aduitle/visual alarms (above/below) on any selected measurement function alarm Set-up Color palettes • Iron • Gray • Rainbow HC Setup commands Laguages 21 Setup commands Languages Storage media Removable memory: SD card (8 GB) Time lapse (periodic image storage) No Remote control operation • Luga fLIR Tools (using USB cable) • FLI	Measurement presets	
- Cold spot - User preset 1 - User preset 2 Difference 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 Screening 0.5°C (0.9°F) accuracy @ 37°C (98.6°F) with reference Alarm		•
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	Voice	
	Text	

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	[
Image annotations	
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	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 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
005	





Data communication interfaces	
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
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 Class B (emission)
Radio spectrum	 ETSI EN 300 328 FCC Part 15.249 RSS-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 $(L \times W \times H)$	278.4 × 116.1 × 113.1 mm (11.0 × 4.6 × 4.4 in.)	
Battery weight	140 g (4.9 oz.)	
Battery size $(L \times W \times H)$	150 × 46 × 55 mm (5.9 × 1.8 × 2.2 in.)	
Tripod mounting	UNC ¼"-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 Screws Torx T10 wrench Carabiner hook Front protection Hand strap Lanyard strap, camera Lens cap strap Wrist 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	4743254002654	
UPC-12	845188013882	
Country of origin	Estonia	

Supplies & accessories:

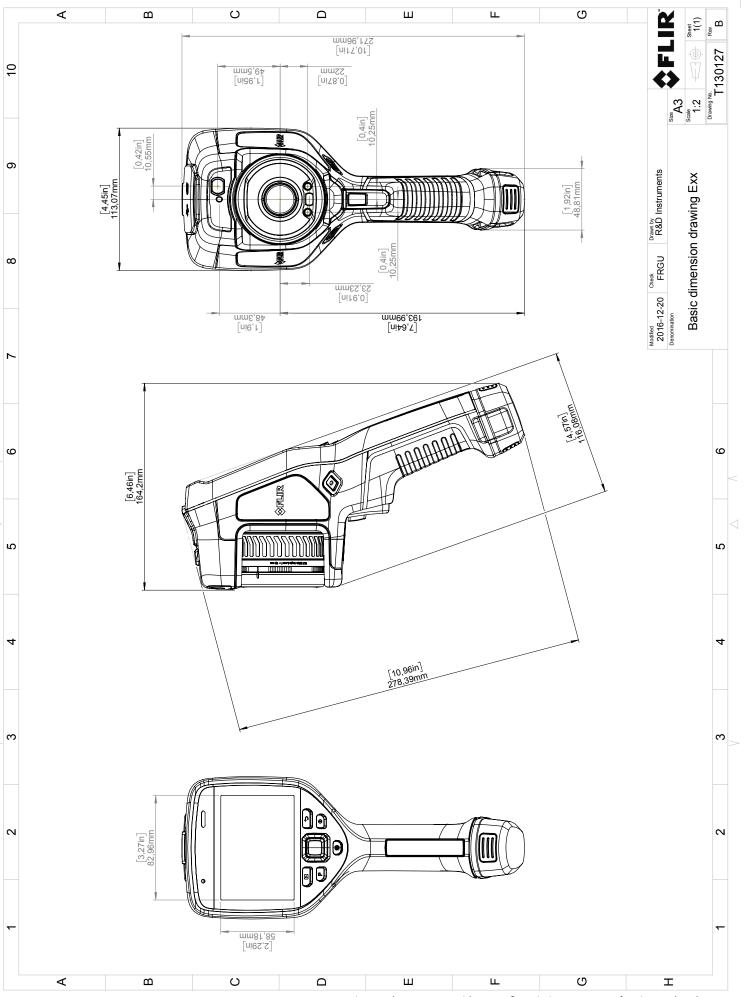
• T130337ACC; Calibration target



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- 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)
- T300083; FLIR Thermal Studio (incl. license key/QR code)
- 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)
- 4220499; FLIR Research Studio 1 Year Subscription (online activation)
- 4220500; FLIR Research Studio Perpetual License (online activation)
- 4220646; FLIR Research Studio Perpetual License (USB dongle)
- 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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The World's Sixth Sense"

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:

1.1	roct	'IN/OC'
	reur	ives:

Directive Directive Directive Directive	2012/19/EU 2014/53/EU 1999/519/EC 2011/65/EU	Radio Equipme	al and electric equipment ent Directive (RED) xposure to electromagnetic fields (SAR) 5/830/EU
Standards:			
Emission:	EN 61000-6-3/	′A1:2011	Electromagnetic Compability
			Generic standards – Emission
Immunity:	EN 61000-6-2:	2005	Electromagnetic Compability
	Draft EN 3014	89-1:2016 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 32	28	Harmonized EN covering essential requirements of the R&TTE Directive
SAR:	EN 62209-2		Human exposure Wireless
Safety (Battery charger			Information technology equipment
Salety (Battery charge)	,	005+A1 EN 60950	0, 11
		1:2006+A11:2009+A1:2010+A2:2013+AC:2011+A12:2011	
RoHS:	EN 50581:2012		Technical documentation
Norio.	214 50501.2012	<u> </u>	

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