

P/N: 90202-0101

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Website

http://www.flir.com

Customer support

http://support.flir.com

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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	640 × 480 pixels
UltraMax (super-resolution)	Yes
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)	0.66 mrad/pixel
Available extra lenses	14° (AutoCal) 42° (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	1–8× continuous



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applied migrapholometer/7.5.14
cooled microbolometer/7.5–14 μm
μm
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-20 to 120°C (-4 to 248°F) 0 to 650°C (32 to 1202°F)
-20 to 120°C (-4 to 248°F) 0 to 650°C (32 to 1202°F) 300 to 1500°C (572 to 2732°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%
-20 to 120°C (-4 to 248°F) 0 to 650°C (32 to 1202°F) 300 to 1500°C (572 to 2732°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°C
-20 to 120°C (-4 to 248°F) 0 to 650°C (32 to 1202°F) 300 to 1500°C (572 to 2732°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%
-20 to 120°C (-4 to 248°F) 0 to 650°C (32 to 1202°F) 300 to 1500°C (572 to 2732°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%
-20 to 120°C (-4 to 248°F) 0 to 650°C (32 to 1202°F) 300 to 1500°C (572 to 2732°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% abled in the camera



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Maccurement analysis	1
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
	Iron Lava
	Rainbow Rainbow
Setup commands	Rainbow HC Local adaptation of units, language, date and time
Getap commands	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
Visual image annotation	Yes
Image sketch	Yes: on infrared images only
Sketch	From touchscreen
METERLINK	Wireless connection (Bluetooth) to:



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Image annotations	
Compass	Yes
Laser distance meter information	Yes
Area measurement 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
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
Iint	
Laser pointer	
Laser alignment	Position is automatically displayed on the infrared image
•	
Laser alignment	image
Laser alignment Laser distance meter	image Activated by a dedicated button Class 2, 0.05–40 m (1.6–131 ft) ±1% of measured
Laser alignment Laser distance meter Laser	image Activated by a dedicated button Class 2, 0.05–40 m (1.6–131 ft) ±1% of measured
Laser alignment 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 alignment 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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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 (so 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) Charging temperature O°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 to 122°F) Storage temperature range -40 to 70°C (-40 to 158°F) Humidity (operating and storage) EEG 600682-30/24 hours/95% relative humidity 25–40°C (77-104°F)two cycles EMC - ETSI EN 301 489-1 (radio) - ETSI EN 301	Radio	
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) Bluetorth + 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 In camera (AC adapter or 12 V from a vehicle) or two-bay charger Charging system In camera (AC adapter or 12 V from a vehicle) or two-bay charger Charging time (using two-bay charger) 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 A cadapter 9-26°C V AC, 50°Med Ly, 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 to 122°F) Storage temperature range -40 to 70°C (-40 to 158°F) Humidity (operating and storage) EMC -ETSI EN 301 489-1 (radio) -ETSI EN 301 489-1 (r		Bluetooth + FDB/LF: 2402–2480 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 Battery type 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) 1.5 hours be 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 (60°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 to 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 -15 ETSI EN 301 489-1 (radio) -15 ETSI EN 301 489-1 (radio) -15 ETSI EN 301 393 - FCC 47 CFR part 15 B. class B (emission) -15 ETSI EN 300 328 -15 ETSI EN 301 393 -15 CG 47 CFR part 15 B. class B (emission) -15 (EC 60068-2-27) Vibration 25 (IEC 60068-2-27) Vibration 26 (IEC 60068-2-27) Designed for 2 m (6.6 ft) Safety Physical data Weight (including battery) 1 kg (2.2 lb)	operating nequency	
indoor use only, see national regulations. RF output (EIRP) Bluetooth + EDP/LE: < 10 dBm WLAN: < 17 dBm 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) Charging time (using two-bay charger) 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 VAC, 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 to 122°F) Storage temperature range -40 to 70°C (-40 to 158°F) EC 60068-2-30/24 hours/95% relative humidity 25–40°C (77-104°F)/two cycles EMC -ETSI EN 301 488-17 EN 81000-6-3 (emission) FCC 47 CFR part 15 B, class B (emission) FCC 47 CFR part 15 B, class B (emission) FCC 47 CFR part 15 B Encapsulation IP 54 (IEC 60068-2-6) Drop Designed for 2 m (6.6 ft) Camera: -IEC/EN 62368-1 Power supply: -IEC/EN 62368-1 Power supply: -IEC/EN 62368-1 Power supply: -IEC/EN 62368-1 -CSA/UL/KC/SAA/PSE 60950-1		WLAN 5 GHz: 5150–5350 MHz (DFS: only slave
MLAN: < 17 dBm Antenna Integrated PIFA antenna (gain: maximum 1.4 dBi) Power system Battery type Rechargeable Li-ion battery 3.6 V Battery voltage 3.6 V Battery operating time > 2.5 hours at 25°C (68°F) and typical use In camera (AG adapter or 12 V from a vehicle) or two-bay charger Charging time (using two-bay charger) Charging temperature Charging temperature O"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 to 122°F) Storage temperature range -40 to 70°C (-40 to 158°F) Humidity (operating and storage) EMC -ETSI EN 301 489-1 (radio) -ETSI EN 301 489-17 -EN 61000-6-2 (immulty) -EN 61000-6-3 (immulty) -EN 61000-6-		Note that frequency band 5150–5350 MHz is for
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 In camera (AC adapter or 12 V from a vehicle) or two-bay charger 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 plup—optional) Power management Automatic shut-down and sleep mode Environmental data Operating temperature range -15 to 50°C (5 to 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 301 489-17 (radio) ETSI EN 301 893 (ref 200-6-2 (immunity)) EN 61000-6-2 (immunity)	RF output (EIRP)	Bluetooth + EDR/LE: < 10 dBm
Battery type Battery voltage Battery voltage Battery voltage 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) Charging time (using two-bay charger) Charging temperature O°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 to 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 301 489-17 EN 61000-6-2 (immunity) EN 61000-6-3 (emission) FOC 47 CFR part 15 E, class B (emission) Radio spectrum -ETSI EN 303 228 ETSI EN 303 288 ETSI EN 303 288 ETSI EN 303 28 ETSI EN 304 893 FOC 47 CFR part 15 E Encapsulation IP 54 (IEC 600529) Shock 25g (IEC 60068-2-6) Drop Designed for 2 m (6.6 ft) Camera: - IEC/EN 62368-1 Power supply: - IEC/EN 62368-1 Power supply: - IEC/EN 62368-1 Power supply: - IEC/EN 62368-1 - CSA/UL/KC/SAA/PSE 60950-1		WLAN: < 17 dBm
Battery type 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) Charging time (using two-bay charger) Charging temperature 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 to 122°F) Storage temperature range -15 to 50°C (5 to 122°F) Humidity (operating and storage) EMC ETSI EN 301 489-1 (radio) ETSI EN 301 489-17 EN 81000-6-3 (emission) ETSI EN 301 489-17 EN 81000-6-3 (emission) ETSI EN 301 893 FCC 47 CFR part 15 B, class B (emission) FCC 47 CFR part 15 B, class B (emission) FCC 47 CFR part 15 E Encapsulation IP 54 (IEC 600529) Shock 25g (IEC 60068-2-27) Vibration Drop Designed for 2 m (6.6 ft) Camera: IEC/EN 60368-1 Power supply: IEC/EN 60368-1 CSA/UL/KC/SAA/PSE 60950-1 Physical data Weight (including battery) 1 kg (2.2 lb)	Antenna	Integrated PIFA antenna (gain: maximum 1.4 dBi)
Battery voltage 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) Charging time (using two-bay charger) 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 to 122°F) Storage temperature range -15 to 50°C (5 to 122°F) Humidity (operating and storage) EMC • ETSI EN 301 489-1 (radio) • ETSI EN 301 489-17 • EN 61000-6-3 (emission) • ECC 47 CFR part 15 B, class B (emission) Radio spectrum • ETSI EN 301 893 • FCC 47 CFR part 15 E • FCC 47 CFR part 15 E Encapsulation IP 54 (IEC 60529) Shock 25g (IEC 60068-2-27) Vibration Drop Designed for 2 m (6.6 ft) Camera: • IEC/EN 60350-1, IEC/EN 62368-1 Power supply: • IEC/EN 60368-1 • CSA/UL/KO/SAA/PSE 60950-1 Physical data Weight (including battery) 1 kg (2.2 lb)	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 O°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 to 122°F) Storage temperature range -40 to 70°C (-40 to 158°F) Humidity (operating and storage) EEG 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 61000-6-2 (immunity) -EN 61000-6-3 (emission) Radio spectrum -ETSI EN 300 328 -ETSI EN 301 893 -FCC 47 CFR part 15 B, class B (emission) Radio spectrum -ETSI EN 300 328 -ETSI EN 301 893 -FCC 47 CFR part 15 E -FC	Battery type	Rechargeable Li-ion battery
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 —15 to 50°C (5 to 122°F) Operating temperature range —15 to 50°C (5 to 122°F) Storage temperature range —40 to 70°C (—40 to 158°F) Humidity (operating and storage) IEC 69068-2-30/24 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 61000-6-2 (immunity) • EN 61000-6-2 (immunity) • EN 61000-6-2 (immunity) • EN 61000-6-2 (immunity) • ETSI EN 301 489-17 • EN 61000-6-2 (immunity) • EN 61000-6-2 (immunity) • EN 61000-6-2 (immunity) • ETSI EN 301 983 • ECC 47 CFR part 15 C • ECC 47 CFR part 15 C • ECC 47 CFR part 15 E Encapsulation <td< td=""><td>Battery voltage</td><td>3.6 V</td></td<>	Battery voltage	3.6 V
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 to 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 61000-6-2 (immunity) -EN 61000-6-3 (immission) -FCC 47 CFR part 15 B, class B (emission) -FCC 47 CFR part 15 C -FCC 47 CFR part 15 E Encapsulation IP 54 (IEC 60068-2-27) Vibration 2g (IEC 60068-2-27) Vibration 2g (IEC 60068-2-6) Drop Designed for 2 m (6.6 ft) Camera: -IEC/EN 60950-1, IEC/EN 62368-1 -Power supply: -IEC/EN 62368-1 -Power supply: -IEC/EN 82368-1 -CSA/UL/KC/SAA/PSE 60950-1	Battery operating time	> 2.5 hours at 25°C (68°F) and typical use
indicated by LEDs Charging temperature O°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 to 122°F) Storage temperature range -40 to 70°C (-40 to 158°F) Humidity (operating and storage) EMC IEC 60068-2-30/24 hours/95% relative humidity 25–40°C (77–104°F)/two cycles EMC ETSI EN 301 489-17 EN 61000-6-2 (immunity) EN 61000-6-2 (immunity) EN 61000-6-3 (emission) FCC 47 CFR part 15 B, class B (emission) FCC 47 CFR part 15 B Encapsulation IP 54 (IEC 60529) Shock 25g (IEC 60068-2-6) Drop Designed for 2 m (6.6 ft) Camera: IEC/EN 60950-1, IEC/EN 62368-1 Power supply: IEC/EN 62368-1 CSA/UL/KC/SAA/PSE 60950-1	Charging system	
Korean market: 10°C to 45°C (50°F to 113°F)	Charging time (using two-bay charger)	. ,
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 to 122°F) Storage temperature range -40 to 70°C (-40 to 158°F) Humidity (operating and storage) ETSI E0068-2-30/24 hours/95% relative humidity 25-40°C (77-104°F)/two cycles EMC ETSI EN 301 489-1 (radio) ETSI EN 301 489-1 (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) FCC 47 CFR part 15 B, class B (emission) FCC 47 CFR part 15 E Encapsulation IP 54 (IEC 60529) Shock 25g (IEC 60068-2-27) Vibration Drop Designed for 2 m (6.6 ft) Camera: IEC/EN 60950-1, IEC/EN 62368-1 Power supply: IEC/EN 62368-1 CSA/UL/KC/SAA/PSE 60950-1 Physical data Weight (including battery) 1 kg (2.2 lb)	Charging temperature	, , , , , , , , , , , , , , , , , , , ,
Environmental data	External power operation	
Coperating temperature range	Power management	Automatic shut-down and sleep mode
Storage temperature range	Environmental data	
Humidity (operating and storage)	Operating temperature range	–15 to 50°C (5 to 122°F)
## 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) ### ETSI EN 300 328 ### ETSI EN 301 893 ### FCC 47 CFR part 15 C ### FCC 47 CFR part 15 E ### Encapsulation ### IP 54 (IEC 60529) ### Shock ### 25g (IEC 60068-2-27) ### Vibration ### Designed for 2 m (6.6 ft) ### Safety ### Camera: ### IEC/EN 60950-1, IEC/EN 62368-1 ### Power supply: ### IEC/EN 62368-1 ### CSA/UL/KC/SAA/PSE 60950-1 Physical data	Storage temperature range	-40 to 70°C (-40 to 158°F)
• 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 Encapsulation IP 54 (IEC 60529) Shock 25g (IEC 60068-2-27) Vibration Drop Designed for 2 m (6.6 ft) Camera: • IEC/EN 60950-1, IEC/EN 62368-1 Power supply: • IEC/EN 62368-1 • CSA/UL/KC/SAA/PSE 60950-1 Physical data Weight (including battery) 1 kg (2.2 lb)	Humidity (operating and storage)	•
ETSI EN 301 893	EMC	 ETSI EN 301 489-17 EN 61000-6-2 (immunity) EN 61000-6-3 (emission)
Shock 25g (IEC 60068-2-27)	Radio spectrum	ETSI EN 301 893FCC 47 CFR part 15 C
Vibration 2g (IEC 60068-2-6) Drop Designed for 2 m (6.6 ft) Safety Camera: 	Encapsulation	IP 54 (IEC 60529)
Drop Designed for 2 m (6.6 ft)	Shock	25g (IEC 60068-2-27)
Camera: EC/EN 60950-1, IEC/EN 62368-1 Power supply: IEC/EN 62368-1 CSA/UL/KC/SAA/PSE 60950-1 Physical data Weight (including battery)	Vibration	2g (IEC 60068-2-6)
IEC/EN 60950-1, IEC/EN 62368-1 Power supply:	Drop	Designed for 2 m (6.6 ft)
Weight (including battery) 1 kg (2.2 lb)	Safety	 IEC/EN 60950-1, IEC/EN 62368-1 Power supply: IEC/EN 62368-1
Weight (including battery) 1 kg (2.2 lb)	Physical data	
	<u> </u>	1 kg (2,2 lb)
■ = 0 + 0 + 0 + 1	Size (L × W × H)	278.4 × 116.1 × 113.1 mm (11.0 × 4.6 × 4.4 in)

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FLIR E96 24°

P/N: 90202-0101

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Physical data	
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 FLIR Thermal Studio Starter Hard transport case Infrared camera with lens Lens cap, front 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	4743254004535
UPC-12	845188022266
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
- T300369; Mounting kit (FLIR T5xx, T8xx, Exx)
- T850111; Option, Dual streaming
- T130337ACC; Calibration target

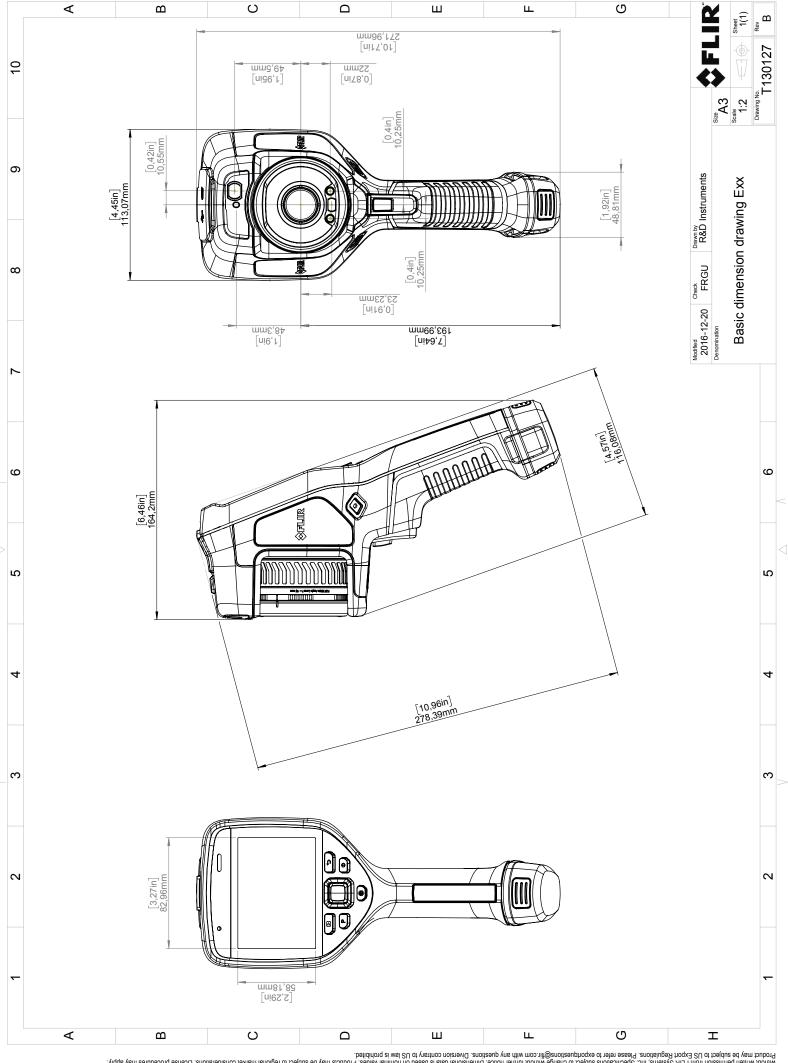
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FLIR E96 24°

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- T199330ACC; Battery
- T199346ACC; Hard transport case for FLIR Exx series
- T199425ACC; Battery charger
- T199557ACC; Accessory Box II
- T199588; IR lens, f=29 mm (14°) with case
- T199589; IR lens, f=17 mm (24°) with case
- T199590; IR lens, f=10 mm (42°) with case
- 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
- 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)
- 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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August 26, 2020 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 v1.9.1,v2.1.1 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 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