FLIR E5 Pro

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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	
IR resolution	160 × 120 pixels
Thermal sensitivity/NETD	<0.07°C (0.13°F) / <60 mK at 30°C (86°F)
Field of view (FOV)	33° × 25
Minimum focus distance	0.36 m (1.18 ft.)
Spatial resolution (IFOV)	3.7 mrad
F-number	1.4
Image frequency	9 Hz
Focus	Fixed focus

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 µm

User interface	
Display	3.5 in. 640 × 480 color LCD
Touch screen	Capacitive touch
Text	Text annotation on image using onscreen keyboard
Flashlight	Manually activated bright LED

Image presentation	
Display	3.5 in. 640 × 480 color LCD
Image adjustment	Automatic/Manual

P/N: 13301-0101

#13301-0101; r. 93758; en-US

Image presentation modes	
Image modes	Thermal MSX, Thermal, Picture-in-Picture, Digital camera.
Multi Spectral Dynamic Imaging (MSX)	IR image enhanced with visible camera detail
Picture in Picture	IR area on visual image

Measurement	
Camera temperature range	• –20 to 200°C (–4 to 392°F) • 10 to 400°C (50 to 752°F)
Object temperature range and accuracy (for ambient temp. 10 to 35°C (50 to 95°F) and object temp. above 0°C (32°F))	• Range –20 to 200°C (–4 to 392°F): ◦ 0 to 100°C (32 to 212°F): ±2°C (±3.6°F) ◦ 100 to 200°C (212 to 392°F): ±2% • Range 10 to 400°C (50 to 752°F): ◦ 10 to 100°C (50 to 212°F): ±4°C (±7.2°F) ◦ 100 to 400°C (212 to 752°F): ±4%

Measurement analysis	
Spotmeter	Center spot, box with min./max.
Isotherm	Above alarm, Below alarm
Delta T	Yes, NFPA 70B compliant
Emissivity correction	Variable from 0.1 to 1.0
Emissivity table	Emissivity table of predefined materials
Measurements correction	Emissivity, matt/semi-matt/semi-gloss + custom value, reflected apparent temperature, atmospheric compensation

Set-up	
Color palettes	Iron, White hot, Black hot, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	Local adaptation of units, language, date and time formats

Storage of images	
File formats	Standard JPEG, 14-bit measurement data included
Storage media	Internal memory and onboard FLIR Ignite cloud connectivity (with Wi-Fi)

Digital camera	
Digital camera, resolution	5 MP
Digital camera, FOV	52.7°

Video streaming	
Radiometric IR video streaming	Yes, USB connection
Non-radiometric video streaming	Yes; MSX, Thermal, Visual, Picture in Picture. USB Video Class colorized uncompressed with overlay 9 Hz.

P/N: 13301-0101

#13301-0101; r. 93758; en-US

Data communication interfaces	
Interfaces	USB-C: Data transfer to and from PC and Mac device
Wi-Fi	Infrastructure (network)

Radio	
Wi-Fi	• Standard: 802.11 a/b/g/n • Frequency range: ◦ 2400–2473 MHz ◦ 5150–5250 MHz • Max. output power: 16 dBm

Power system	
Battery type	Rechargeable Lithium-ion battery
Battery voltage	3.65 V
Battery operating time	4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	Battery is charged inside the camera or in specific charger.
Charging time	2 hours in charger. 4 hours to 90% capacity in camera.
Power management	Automatic shut-down
AC operation	AC adapter, 100–240 VAC input, 5 VDC output to camera
Battery documents	For documents like MSDS and UN38.3 test reports/summaries, see: https://support.flir.com/resources/msds

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity
EMC	• EN 301 489-1 • EN 301 489-17 • EN 61000-6-2 (Immunity) • EN 61000-6-3 • FCC 47 CFR Part 15 Class B (Emission)
Radio spectrum	• ETSI EN 300 328 • ETSI EN 301 893 • FCC 47 CFR Part 15 C, E • RSS-247 Issue 2
Hazardous substances	• WEEE 2012/19/EU • RoHs 2011/65/EU
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

P/N: 13301-0101

#13301-0101; r. 93758; en-US

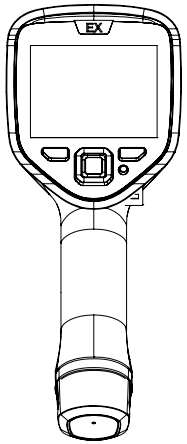
Environmental data	
Safety	Camera: • IEC/EN 62368-1 Power supply: • IEC/EN 62368-1 • UL/J/(AS/NZS) 62368-1 • GB 4943
Declaration of conformity	See: https://support.flir.com/resources/DoC

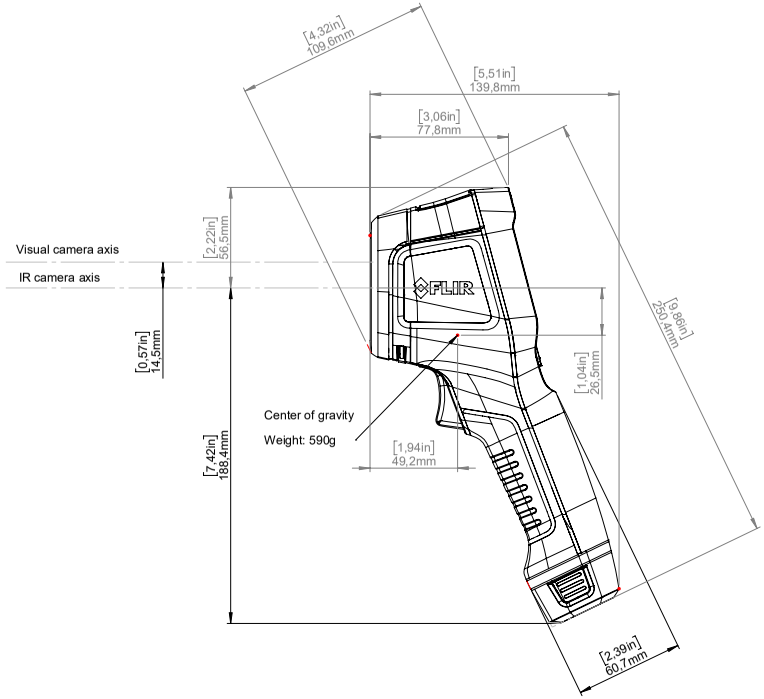
Physical data	
Camera weight, incl. battery	0.590 kg (1.3 lb.)
Camera size (L × W × H)	244 × 95 × 140 mm (9.6 × 3.7 × 5.5 in.)
Color	Black

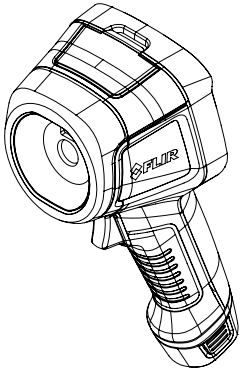
Shipping information	
Packaging, type	Cardboard box
List of contents	• Infrared camera with battery • Power supply • USB cable • FLIR Thermal Studio Starter • Printed documentation • Hard transport case
Packaging, weight	3.13 kg (6.9 lb.)
Packaging, size	385 × 165 × 315 mm (15.2 × 6.5 × 12.4 in.)
EAN-13	4743254006454
UPC-12	845188029142
Country of origin	Estonia

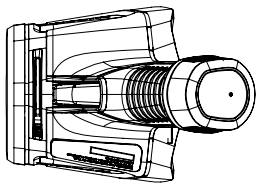
Supplies & accessories:

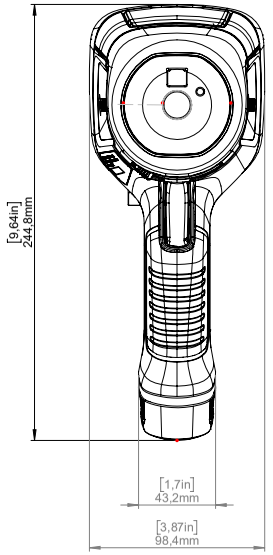
- T198528; Hard transport case FLIR Ex series
- T198531; Battery charger incl power supply
- T198532; Car charger
- T198534; Power supply USB-micro
- T198529; Pouch FLIR Ex and ix series
- T198533; USB cable Std A <-> Micro B
- T199362ACC; Battery Li-ion 3.6 V, 2.6 Ah, 9.4 Wh
- T911630ACC; Power supply for camera, 15 W/3 A
- T911689ACC; Pouch for FLIR E-series
- T911093; Tool belt
- T300083; FLIR Thermal Studio Pro, Perpetual license
- T300341; FLIR Thermal Studio Standard, 1 Year Subscription
- T300258; FLIR Thermal Studio Standard, Perpetual license
- T199233; FLIR Atlas SDK for .NET

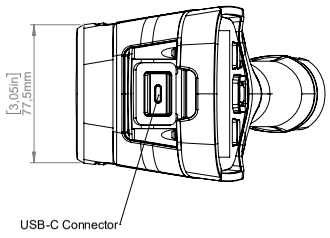












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