

P/N: 63906-0604

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<http://www.flir.com>

Customer support

<http://support.flir.com>

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General description

The FLIR Ex series cameras are point-and-shoot infrared cameras that give you access to the infrared world. A FLIR Ex series camera is an affordable replacement for an infrared thermometer, providing a thermal image with temperature information in every pixel. The new MSX and visual formats make the cameras incomparably easy to use.

The FLIR Ex series cameras are user-friendly, compact, and rugged, for use in harsh environments. The wide field of view makes them the perfect choice for building applications.

Benefits:

- Easy to use: The FLIR Ex series cameras are fully automatic and focus-free with an intuitive interface for simple measurements in thermal, visual, or MSX mode.
- Compact and rugged: The FLIR Ex series cameras' low weight of 0.575 kg and the accessory belt pouch make them easy to bring along at all times. Their rugged design can withstand a 2 m drop test, and ensures reliability, even in harsh environments.
- Ground breaking affordability: The FLIR Ex series cameras are the most affordable infrared cameras on the market.

Imaging and optical data

IR resolution	80 × 60 pixels
Thermal sensitivity/NETD	<0.15°C (0.27°F) / <150 mK
Field of view (FOV)	45° × 34°
Minimum focus distance	0.5 m (1.6 ft.)
Spatial resolution (IFOV)	10.3 mrad
F-number	1.5
Image frequency	9 Hz
Focus	Focus free

Detector data

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

Image presentation

Display	3.0 in. 320 × 240 color LCD
Image adjustment	Automatic adjust/lock image



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Image presentation modes		
Image modes	Thermal MSX, Thermal, Picture-in-Picture, Thermal blending, Digital camera.	
Multi Spectral Dynamic Imaging (MSX)	IR image with enhanced detail presentation	
Picture-in-Picture	IR area on visual image	
Measurement		
Camera temperature range	Object temperature range	Accuracy — for ambient temperature 10 to 35°C (50 to 95°F) and object temperature above 0°C (32°F)
-20 to 250°C (-4 to 482°F)	0 to 100°C (32 to 212°F)	±2°C (±3.6°F)
	100 to 250°C (212 to 482°F)	±2%
Measurement analysis		
Spotmeter	Center spot	
Area	Box with max./min.	
Isotherm	Above alarm, Below alarm	
Emissivity correction	Variable from 0.1 to 1.0	
Emissivity table	Emissivity table of predefined materials	
Reflected apparent temperature correction	Automatic, based on input of reflected temperature	
Set-up		
Color palettes	Black and white, iron and rainbow	
Set-up commands	Local adaptation of units, language, date and time formats	
Storage of images		
File formats	Standard JPEG, 14-bit measurement data included	
Digital camera		
Digital camera, resolution	640 × 480	
Digital camera, FOV	55° × 43°	
Data communication interfaces		
Interfaces	USB Micro: Data transfer to and from PC and Mac device	
Wi-Fi	Peer-to-peer (ad hoc) or infrastructure (network)	
Radio		
Wi-Fi	<ul style="list-style-type: none"> • Standard: 802.11 b/g/n • Frequency range: <ul style="list-style-type: none"> ◦ 2400–2480 MHz ◦ 5150–5260 MHz • Max. output power: 15 dBm 	
Power system		
Battery type	Rechargeable Li ion battery	
Battery voltage	3.6 V	
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use	



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Power system	
Charging system	Battery is charged inside the camera or in specific charger.
Charging time	2.5 hours to 90% capacity in camera. 2 hours in charger.
Power management	Automatic shut-down
AC operation	AC adapter, 90–260 VAC input, 5 VDC output to camera

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	<ul style="list-style-type: none">EN 61000-6-2 (Immunity)EN 61000-6-3 (Emission)FCC 47 CFR Part 15 Class B (Emission)RCM
Radio spectrum	<ul style="list-style-type: none">ETSI EN 300 328ETSI EN 301 893FCC 47 CFR Part 15 C, ERSS-247 Issue 2
Hazardous substances	<ul style="list-style-type: none">WEEE 2012/19/EURoHs 2011/65/EU
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)
Safety	Camera: IEC/EN60950-1 Power supply: UL, CSA, CE, PSE, CCC, and SAA

Physical data	
Camera weight, incl. battery	0.575 kg (1.27 lb.)
Camera size (L × W × H)	244 × 95 × 140 mm (9.6 × 3.7 × 5.5 in.)
Color	Black and gray

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">Infrared cameraHard transport caseBattery (inside camera)USB cablePower supply/charger with EU, UK, US and Australian plugsPrinted documentation
Packaging, weight	2.9 kg (6.4 lb.)
Packaging, size	385 × 165 × 315 mm (15.2 × 6.5 × 12.4 in.)
EAN-13	4743254002869
UPC-12	845188014117
Country of origin	Estonia

Supplies & accessories:

- T911093; Tool belt



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- T911689ACC; Pouch for FLIR E-series
- 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
- T300083; FLIR Thermal Studio Pro, Perpetual license
- T300258; FLIR Thermal Studio, Perpetual license
- T198583; FLIR Tools+ (download card incl. license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- INST-EW-0110; Extended Warranty 1 Year for AX8, E4, E5
- INST-EWGM-0110; Premium Service Package for E4, E5
- INST-GM-0115; General Maintenance Package for E4, E5, ix, Kx