

P/N: 63909-0904

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Website

http://www.flir.com

Customer support

http://support.flir.com

Disclaimer

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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	120 × 90 pixels		
Thermal sensitivity/NETD	<0.10°C (0.27°F) / <100 mK		
Field of view (FOV)	45° × 34°		
Minimum focus distance	0.5 m (1.6 ft.)		
Spatial resolution (IFOV)	6.9 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 (2	12 to 482°F)	±2%	
Measurement analysis				
Spotmeter	· · · · · · · · · · · · · · · · · · ·		Center spot	
Area		Box with max./min.		
Isotherm		Above alarm, Be	elow 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	<u> </u>			
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		Standard: 802.11 b/g/n Frequency range:		
		∘ 2400–248 ∘ 5150–526		
		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	 EN 61000-6-2 (Immunity) EN 61000-6-3 (Emission) FCC 47 CFR Part 15 Class B (Emission) RCM
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
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

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

2 m (6.6 ft.)

Camera: IEC/EN60950-1

Power supply: UL, CSA, CE, PSE, CCC, and SAA

Shipping information		
Packaging, type	Cardboard box	
List of contents	Infrared camera Hard transport case Battery (inside camera) USB cable Power supply/charger with EU, UK, US and Australian plugs Printed documentation	
Packaging, weight	2.9 kg (6.4 lb.)	
Packaging, size	385 × 165 × 315 mm (15.2 × 6.5 × 12.4 in.)	
EAN-13	4743254002876	
UPC-12	845188014124	
Country of origin	Estonia	

Supplies & accessories:

• T911093; Tool belt

Drop

Safety



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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

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