

P/N: 63907-0804

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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.



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	240 × 180 pixels	
Thermal sensitivity/NETD	< 0.06°C (0.11°F) / < 60 mK	
Field of view (FOV)	45° × 34°	
Minimum focus distance	0.5 m (1.6 ft.)	
Spatial resolution (IFOV)	3.4 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/Manual	

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Thermal MSX, Thermal, Picture-in-Picture, Thermal blending, Digital camera. Thermal blending, Digital camera. Multi Spectral Dynamic Imaging (MSX) IR image with enhanced detail presentation Picture-in-Picture IR area on visual image	Image presentation modes				
Measurement Camera temperature range Object temperature range Accuracy — for ambient temperature for 35°C (50 to 55°C) 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) 10 to 550°C (50 to 1022°F) 10 to 100°C (50 to 122°F) ±2°C (±5.4°F) 10 to 550°C (50 to 1022°F) 10 to 100°C (50 to 122°F) ±3°C (±5.4°F) Measurement analysis 50 min max/min. Spotmeter Center spot Area Box with max/min. Isotherm Above alarm, Below alarm Emissivity correction Variable from 0.1 to 1.0 Emissivity table of predefined materials Emissivity table of predefined materials Reflected apparent temperature correction Automatic, based on input of reflected temperature Set-up 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, resolution Digital camera, FOV 55° × 43° Digital camera, FOV 55° × 43° <td co<="" td=""><td colspan="2"></td><td colspan="2"></td></td>	<td colspan="2"></td> <td colspan="2"></td>				
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) = 42°C (±3.6°F) = 42°C (±3.4°F) = 42°C (±3.4°F) = 43°C (±5.4°F) = 43°	Multi Spectral Dynamic Imaging (MSX)		IR image with er	nhanced detail presentation	
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10 to 550°C (50 to 1022°F)	–20 to 250°C (–4 to 482°F)	0 to 100°C (32 t	o 212°F)	±2°C (±3.6°F)	
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Power system Battery type Rechargeable Li ion battery					
Battery type Rechargeable Li ion battery			Max. output power: 15 dBm		
	Power system				
Battery voltage 3.6 V	Battery type		Rechargeable Li ion battery		
	Battery voltage		3.6 V		

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Power system	
Battery operating time	Approx. 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	2.5 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/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 $(L \times W \times H)$	244 × 95 × 140 mm (9.6 × 3.7 × 5.5 in.)
Color	Black and gray
Shipping information	
Packaging, type	Cardboard box
List of contents	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	4743254004016
UPC-12	845188018795

Estonia

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Country of origin



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Supplies & accessories:

- T911093; Tool belt
- 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-0125; Extended Warranty 1 Year for A5, A15, E6, E8
- INST-EWGM-0120; Premium Service Package for A5, A15, E6, E8
- INST-GM-0120; General Maintenance Package for A5, A15, E6, E8

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