

Part number 60101-0301	Product name FLIR i7	Section
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Product description

The FLIR i7 is an easy-to-use point-and-shoot infrared camera that gives you access to the infrared world. The camera is an affordable replacement for an infrared thermometer, providing a thermal image with temperature information in every pixel.

The FLIR ix series cameras are light-weight, compact, and rugged, for use in harsh environments.

Benefits:

- Easy-to-use: The FLIR i7 is fully automatic and focus-free with an intuitive interface for simple measurement.
- Compact and rugged: The camera's low weight of 0.365 kg and an accessory belt pouch make it easy to bring along at all times. Its rugged design and passing a 2 m drop test ensure ease-of-use, even in harsh environments.
- Ground breaking affordability: The ix series cameras are the most affordable infrared cameras on the market.



Imaging and optical data	
IR resolution	140 × 140 pixels
Thermal sensitivity/NETD	< 0.1°C (0.18°F) / 100 mK
Field of view (FOV)	29° × 29°
Minimum focus distance	0.6 m (2 ft.)
Spatial resolution (IFOV)	3.7 mrad
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	2.8 in. color LCD
Image adjustment	Automatic adjust/lock image
Measurement	
Object temperature range	–20°C to +250°C (–4°F to +482°F)

Accuracy	$\pm 2^{\circ}\text{C}$ ($\pm 3.6^{\circ}\text{F}$) or $\pm 2\%$ of reading, for ambient temperature 10°C to 35°C ($+50^{\circ}\text{F}$ to 95°F) and object temperature above $+0^{\circ}\text{C}$ ($+32^{\circ}\text{F}$)
Measurement analysis	
Spotmeter	Center spot
Area	Box with max./min.
Isotherm	Above/below
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	
Storage media	miniSD card
File formats	Standard JPEG, 14-bit measurement data included
Data communication interfaces	
Interfaces	USB Mini-B: Data transfer to and from PC
Power system	
Battery type	Rechargeable Li Ion battery
Battery voltage	3.6 V
Battery operating time	Approx. 5 hours at $+25^{\circ}\text{C}$ ($+77^{\circ}\text{F}$) ambient temperature and typical use
Charging system	Battery is charged inside the camera.
Charging time	3 h to 90% capacity
Power management	Automatic shut-down
AC operation	AC adapter, 90–260 VAC input, 5 VDC output to camera
Environmental data	
Operating temperature range	0°C to $+50^{\circ}\text{C}$ ($+32^{\circ}\text{F}$ to $+122^{\circ}\text{F}$)
Storage temperature range	-40°C to $+70^{\circ}\text{C}$ (-40°F to $+158^{\circ}\text{F}$)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity
EMC	• EN 61000-6-2:2005 (Immunity) • EN 61000-6-3:2007 (Emission)

	FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	Camera housing and lens: IP 43 (IEC 60529)
Bump	25 g (IEC 60068-2-29)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)
Physical data	
Camera weight, incl. battery	0.365 kg (0.80 lb.)
Camera size (L × W × H)	223 × 79 × 85 mm (8.8 × 3.1 × 3.4 in.)
Material	Polycarbonate + acrylonitrile butadiene styrene (PC-ABS) Thixomold magnesium Thermoplastic elastomer (TPE)
Color	Black and gray
Certifications	
Certification	UL, CSA, CE, PSE and CCC
Scope of delivery	
Packaging, type	Hard case
Packaging, contents	- Hard transport case (including padlock) - Infrared camera - Battery (inside camera) - Calibration certificate - Downloads brochure - FLIR Tools CD-ROM - Hand strap - miniSD card, with SD card adapter - Power supply/charger with EU, UK, US and Australian plugs - Printed Getting Started Guide - Printed Important Information Guide - Service & training brochure - USB cable - User documentation CD-ROM - Warranty extension card