



Technical Data

FLIR i7

Part number:

60101-0301

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Legal disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply.

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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	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F) and object temperature above +0°C (+32°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

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Data communication interfaces

Interfaces	USB Mini-B: Data transfer to and from PC
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Power system

Battery type	Rechargeable Li Ion battery
Battery voltage	3.6 V
Battery operating time	Approx. 5 hours at +25°C (+77°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°C (+32°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 61000-6-2:2005 (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
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Shipping information

Packaging, type	Hard case
<ul style="list-style-type: none"> Hard transport case Infrared camera Battery (inside camera) Calibration certificate Downloads brochure FLIR Tools software 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 	

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Camera with built-in IR lens f=6,8 mm (i3 12,5°)
Camera with built-in IR lens f=6,8 mm (i5 17°)
Camera with built-in IR lens f=6,8 mm (i7 25°)

