Technical Data
FLIR i5

Part number:

39301-0103

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March 22, 2011, 11:40 AM

Corporate Headquarters

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Website

http://www.flir.com

Customer support

http://support.flir.com

Legal disclaimer

Imaging and optical data

Field of view (FOV)	17° × 17°
Minimum focus distance	0.6 m (2 ft.)
Spatial resolution (IFOV)	3.7 mrad
Thermal sensitivity/NETD	< 0.1°C (0.18°F) / 100 mK
Image frequency	9 Hz
Focus	Focus free

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 µm
IR resolution	80 × 80 pixels

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)

Measurement analysis

Spotmeter	Center spot
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

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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	• 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)

Physical data

Camera weight, incl. battery	0.34 kg (0.75 lb.)
Camera size (L × W × H)	223 × 79 × 83 mm (8.8 × 3.1 × 3.3 in.)
Material	Polycarbonate + acrylonitrile butadiene styrene (PC-ABS) Thixomold magnesium Thermoplastic elastomer (TPE)
Color	Blue and gray

Certifications

Certification	UL, CSA, CE, PSE and CCC

Scope of delivery

Packaging, type	Hard case

- Hard transport case (including padlock)
- Infrared camera
- Battery (inside camera)
- Calibration certificate
- FLIR QuickReport CD
- 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
- USB cable
- User documentation CD-ROM

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