Technical Data
FLIR i60

Part number:

39903-1102

Copyright

© 2011, FLIR Systems, Inc.

February 21, 2011, 11:22 AM

Corporate Headquarters

FLIR Systems, Inc.
27700 SW Parkway Ave.
Wilsonville, OR 97070
USA
Telephone: +1-503-498-3547

Website

http://www.flir.com

Customer support

http://support.flir.com

Legal disclaimer

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

Information and equipment described herein may require US Government authorization for export purposes. Diversion contrary to US law is prohibited.

Imaging and optical data

Field of view (FOV) / Minimum focus distance	25° × 25° / 0.10 m (0.33 ft.)
Spatial resolution (IFOV)	2.42 mrad
Thermal sensitivity/NETD	<0.10°C (<0.18°F) @ +25°C (+77°F) / 100 mK
Image frequency	9 Hz
Focus	Manual
Focal Plane Array (FPA) / Spectral range	Uncooled microbolometer / 7.5–13 µm
IR resolution	180 × 180 pixels

Image presentation

Display	Built-in 3.5 in. LCD, 256k colors, 240 × 320 pixels
Image modes	IR image, visual image, Picture in Picture, thumbnail gallery
Picture in Picture	Scalable IR area on visual image

Measurement

Object temperature range	−20 to +120°C (−4 to +248°F) 0 to 350°C (32 to +662°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading

Measurement analysis

Spotmeter	Center spot
Area	1 box/full image with min./max.
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Emissivity correction	Variable from 0.1 to 1.0 or selected from list of materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
IR window auto-correction	Automatic, based on inputs of optics/window transmission and temperature

Set-up

Menu commands	Palettes (Black and White, Iron and Rainbow), image adjustment (auto/manual)
Set-up commands	Local adaptation of units, language, date and time formats; automatic shutdown, display intensity

Storage of images

Image storage	Standard JPEG, including measurement data, on memory card

Image annotations

Voice	60 seconds (via Bluetooth)

http://www.flir.com

Image annotations

External sensors	Possible to connect (Bluetooth®): Extech Moisture Meter MO297 Extech Clamp Meter EX845

Video streaming to PC

Radiometric IR-video streaming	Full dynamic to PC using USB (approximately 1 Hz)

Digital camera

Built-in digital camera	2.3 Mpixels (1536 × 1536 pixels), and two LED lights
Digital camera, focus	Minimum focus distance 0.4 m (1.3 ft.)

Laser pointer

Laser	Semiconductor AlGaInP diode laser, Class 2
Laser alignment	Position is automatic displayed on the IR image

Data communication interfaces

USB	• USB-A: Connect external USB device (copy to memory stick) • USB Mini-B: Data transfer to and from PC / streaming MPEG-4

Power system

Battery	Li Ion (field replaceable), 5 hours operating time
Charging system	In camera, AC adapter, 2-bay charger or 12 V from a vehicle
Power management	Automatic shutdown (user selectable)
AC operation	AC adapter, 90–260 VAC, 50/60 Hz, 12 V output to camera

Environmental data

Operating temperature range	−15 to +50°C (+5 to +122°F)
Storage temperature range	−40 to +70°C (−40 to +158°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
Encapsulation	IP 54 (IEC 60529)
Bump	25 g (IEC 60068-2-29)
Vibration	2 g (IEC 60068-2-6)

Physical data

Camera weight, incl. battery	0.60 kg (1.32 lb)
Camera size (L × W × H)	235 × 90 × 175 mm (9.3 × 3.5 × 6.9 in.)

Scope of delivery

• Hard transport case
• Infrared camera with lens
• Battery
• Bluetooth headset
• Bluetooth® USB micro adapter
• Calibration certificate
• FLIR QuickReport™ PC software CD-ROM
• Memory card with adapter
• Power supply, incl. multi-plugs
• Printed Getting Started Guide
• Printed Important Information Guide
• USB cable
• User documentation CD-ROM
• Warranty extension card or Registration card