FLIR i-Series

FLIR i60

FLIR i60 is a lightweight, professional infrared camera with a high quality visual digital camera of 2,3 Mpixels. The FLIR i60 offers scalable fusion, Picture in Picture for professional analysis. New FLIR MeterLink technology, wireless Bluetooth connection with Extech Instruments, Copy to USB and Bluetooth voice annotation functionality will make the FLIR i60 your favorite tool. The Li Ion battery allows work for 5 hours without interruption of loading. The unique FLIR LED lights makes it possible to work effectively even in dark environments. FLIR QuickReport software makes it possible to analyze IR and visual pictures captured in field back in the office.

- *IR resolution 180 x 180 pixels*
- *Digital camera 1536 x 1536 pixels*
- *Lightweight 600 g*
- *MeterLink™*
- *Copy to USB*
- *Laser marker in IR image*
- *Fusion (scalable Picture in Picture)*
- *5 hours battery*
- *LED lights*
- *21 languages*

FLIR i60 Features

- **Digital Camera** — 2.3 Megapixels with built-in LED lights provides sharp images regardless of lighting conditions
- **Picture in Picture (PiP)** — Displays resizable IR image super-imposed over a digital image
- **Wide Temperature Range** — Measures from -20 °C to +350 °C targeting electrical and industrial applications
- **MeterLink™** — Wirelessly transmit data from clamp or moisture meter to your infrared camera
- **± 2% Accuracy** — Reliable temperature measurement
- **IR Window Auto-Correction** — Automatic sensitivity adjustment when inspecting high voltage through safety IR windows
- **Annotations** — Record voice comments via Bluetooth wireless headset
- **Laser Pointer with marker in IR image** — Accurate positioning with marker in the IR image
- **Micro SD Card** — Stores more than 2000 radiometric JPEG images
- **Copy to USB** — Upload images and measurement findings to USB stick


180 x 180 pixel resolution


Fusion (Scalable PiP)


Copy to USB


MeterLink™

What is MeterLink™?

MeterLink displays and documents readings from your Extech moisture- or clamp meter directly on your infrared image using Bluetooth wireless connection.*

MeterLink, a FLIR industry-first technology, will: greatly improve your diagnostics, save time annotating readings, eliminate data errors, and add more customer value to your reports.

*Only on selected Extech models

FLIR i60 Specifications

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

Video streaming	
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	
Interfaces	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

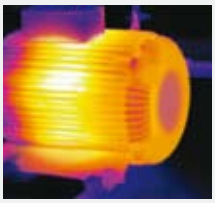
Environmental data	
Operating temperature range	–15 to +50 °C (+5 to +122 °F)
Storage temperature range	–40 to +70 °C (–40 to +158 °F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25 °C to +40 °C (+77 °F to +104 °F)
Encapsulation	IP 54 (IEC 60529)
Bump	25 g (IEC 60068-2-29)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

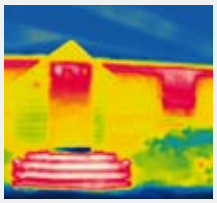
Scope of delivery	
Packaging, contents	Hard transport case
	Infrared camera with lens
	Battery
	Bluetooth headset
	Bluetooth USB dongle
	Bluetooth USB micro adapter
	Calibration certificate
	FLIR QuickReport™ PC software CD-ROM
	Memory card with adapter
	Power supply
	Printed Getting Started Guide
	USB cable
	User documentation CD-ROM
	Warranty extension card or Registration card

Applications


Motor: Bearing Problem




Motor: Internal Winding Problem




Building: Heat Loss

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