FLIR
THE GLOBAL LEADER IN INFRARED CAMERAS

FLIR i-Series

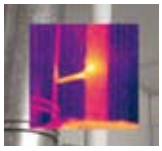
Lightweight design, heavyweight performer

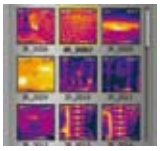
Fully featured with visual camera, analyzing functions, Fusion Picture-in-Picture and LED lights

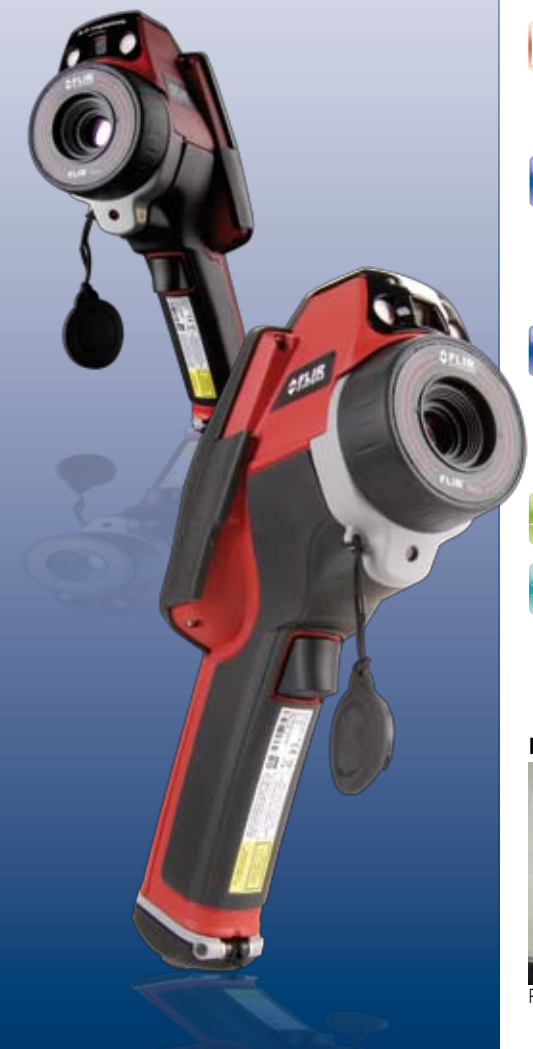
FLIR i60 is the latest product innovation from FLIR for spotting electrical problems, identifying mechanical issues, predictive maintenance and energy preservation. At only 600g it is so small and lightweight you can carry it with you anytime, at the same time it is packed with features like visual camera, Fusion Picture-in-Picture, built-in Laser Locator and LED lights and many other analyzing functions.


Built-in LED lights


Built-in laser pointer


Fusion - Picture-in-Picture


Thumbnail image gallery



i-Series Features

Visual Digital Camera
Up to 2.3MP resolution with LED lights provides sharp images regardless of lighting conditions

Fusion Picture-in-Picture (PIP)
Enables you to see an infrared image super-imposed in a visible image

Accuracy ± 2% and 0.1°C Thermal Sensitivity
Provides the resolution needed to find problems faster and easier

Wide Temperature Range
Measures from -20 to 350°C targeting electrical and mechanical applications

Small and lightweight (only 600g)

Built-in LED lights
Help you to do inspections in low light areas

Radiometric JPEG Images
Patented technology used to save images in standard JPEG format for easy e-mailing and analysis using QuickReport™ PC Software (included)

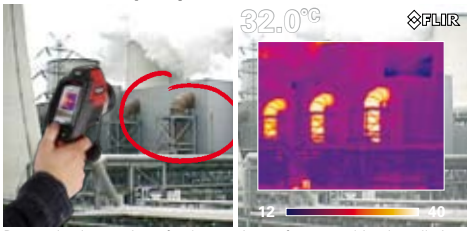
Li-Ion Rechargable Battery
Replaceable battery lasts for 5 hours of operating time

Area (Min/Max) Mode
Spot marker shows the Minumum or the Maximum Temperature reading within the selected area

Thumbnail Image Gallery
Shows you a complete overview of your findings

Laser Pointer
Built-in laser pointer increases accuracy by guiding you to the anomolies on the object
(FLIR i50 and i60 only)

Perform safety inspections



Preventive inspection of exhaust pipes of a gas turbine installation.

Verify repairs

Mechanical check-up of an electrical motor using the FLIR i50.

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FLIR i40 Additional Features

- 0.6 MP Visible Light Camera resolution
- Picture-in-Picture (PiP) fixed
- 14,400 pixels (120 x 120)

FLIR i50 Additional Features

- 2.3 MP Visible Light Camera resolution
- Picture-in-Picture (PiP) with 3 fixed steps
- 19,600 pixels (140 x 140)
- Built-in Laser Locator

FLIR i60 Additional Features

- 2.3 MP Visible Light Camera resolution
- Scalable Picture-in-Picture (PiP) feature
- 32,400 pixels (180 x 180)
- Built-in Laser Locator with laser marker function
- Auto Hot/Cold spot marker function shows a spot within the area that automatically finds the hottest or coldest spot within the box

FLIR i60—Scalable Fusion Picture-in-Picture feature permits you to resize the thermal image as needed on a large 3.5" colour display

Technical Specifications

	FLIR i40	FLIR i50	FLIR i60
Features			
Temperature range	-20°C to 350°C	-20°C to 350°C	-20°C to 350°C
Temperature accuracy	±2°C (±3.6°F) or ± 2% of reading	±2°C (±3.6°F) or ± 2% of reading	±2°C (±3.6°F) or ± 2% of reading
Image storage (1 GB micro SD card)	1000 images	1000 images	1000 images
Focus distance	0,1 m	0,1 m	0,1 m
Emmissivity table	0.1 to 1.0 (adjustable)	0.1 to 1.0 (adjustable)	0.1 to 1.0 (adjustable)
Imaging Performance / Image Presentation			
Field of view/min focus distance	25° x 25°/0.12m	25° x 25°/0.12m	25° x 25°/0.12m
Thermal sensitivity (N.E.T.D)	<0.1°C at 25°C	<0.1°C at 25°C	<0.1°C at 25°C
Detector Type - Focal plane array (FPA) uncooled microbolometer	14,400 pixels (120 x 120)	19,600 pixels (140 x 140)	32,400 pixels (180 x 180)
Spectral range	7.5 to 13µm	7.5 to 13µm	7.5 to 13µm
Display	3.5" colour LCD	3.5" colour LCD	3.5" colour LCD
Video output	MPEG-4 via USB	MPEG-4 via USB	MPEG-4 via USB
Image Modes	Thermal, Visual, Fusion	Thermal, Visual, Fusion	Thermal, Visual, Fusion
Fusion Picture-in-Picture (PiP)	Fixed	3 fixed steps	Scalable
Visible Camera Resolution	0.6 Megapixels (768 x 768)	2.3 Megapixels (1536 x 1536)	2.3 Megapixels (1536 x 1536)
Laser / Classification	—	Yes / Class 2	Yes / Class 2
Laser type	—	Semiconductor AlGaInP Diode Laser: 1mW/635nm	Semiconductor AlGaInP Diode Laser: 1mW/635nm
Laser locator function	—	—	On IR image
Spot (centre) measurement mode	Yes	Yes	Yes
Auto hot/cold spot marker	—	Yes	Yes
Area (min/max) measurement mode	Yes	Yes	Yes
For all Models			
Image controls	Palettes (Iron, Rainbow, and Black/White), level, span, auto adjust (continuous/manual)		
Focus	Manual		
Set-up controls	Date/time, info, LCD intensity, power down, and 21 languages		
Battery Type/operating time	Li-Ion / 5 hours, display shows battery status		
Dimensions/Weights	235x81x175mm / <600g, including battery		
Standard package	Complete package with 1GB micro SD Card, SD Card adapter, Li-Ion rechargeable battery, power supply, battery charger, QuickReport software with USB cable, lens cap, hand strap, rugged hard case, user documentation CD and printed getting started guide.		

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FLIR: An infrared pioneer

For over 40 years, FLIR technology has set the standard in the infrared thermal imaging industry. It's our core business. When you choose a FLIR, you are not only buying an infrared camera, you are accessing the industry's best technical support and customer service.