FLIR i-Series

NEW!

Thermal Imaging InfraRed Cameras

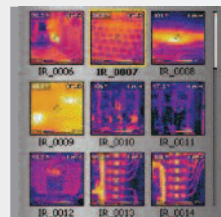High Resolution Visible Light Cameras with Fusion (PIP)
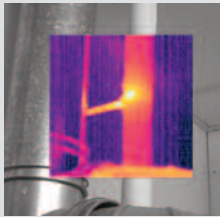
Fusion - Picture in Picture   **Built-in Laser Pointer**   **Built-in Illuminator Lights**   **Thumbnail Image Gallery**

i-Series Features

- Infrared imaging with built-in Visible Light Camera for Fusion Picture in Picture (PIP) image capability so you can see an infrared light image super-imposed in a visible light image

- High accuracy of 2% and thermal sensitivity better than 0.1°C provides the resolution needed to find problems faster and easier — critical when measuring threshold values of thermally sensitive equipment

- Large 3.5" (89mm) color LCD with razor-sharp resolution

- Thumbnail image gallery helps you to quickly review and find your infrared images

- Rugged meter with easy grip handle construction meets IP54 dust/splashproof standards

- Built-in Laser LocatIR™ pointer quickly helps you associate the hot spot on the IR image with the real physical target which greatly enhances the ability to target inconsistencies (FLIR i50 and i60 only)

- Stores more than 1000 Radiometric (patented) JPEG images. All thermal pixels of each image can be analyzed using the included QuickReport™ PC Software

- Long Battery Life lasts for 5hrs of continuous use

- Display measurement modes include spot (center) and Area (Min/Max)

- Complete with 1GB micro SD Card, Li-Ion rechargeable battery, power supply, QuickReport software, USB cable, lens cap, hand strap, and heavy duty case

FLIR i40 Additional Features

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

### FLIR i50 Additional Features

- 2.3MP Visible Light Camera resolution
- Picture in Picture (PIP) with 3 fixed steps
- 140 x 140 pixels (19,600 total)
- Built-in Laser LocatIR™ pointer

FLIR i60 Additional Features

- 2.3MP Visible Light Camera resolution
- Scalable Picture in Picture (PIP) feature (see right illustration)
- 180 x180 pixels (32,400 total)
- Built-in Laser LocatIR™ pointer
- 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

Built-in Illuminator lamp is ideal for adding the visible image to the thermal image in low-lit areas.
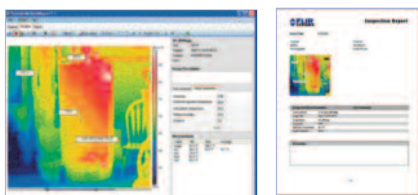
Patented
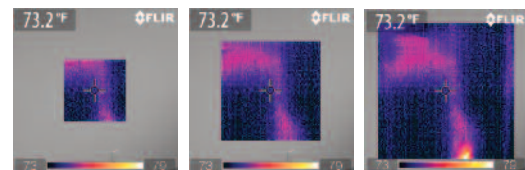
FLIR i60 — Scalable Fusion picture in picture feature permits you to resize the thermal image as needed on a large 3.5" color display

EXTECH INSTRUMENTS
A FLIR COMPANY

Applications

Motor: Bearing Problem

Motor: Internal Winding Problem

Electrial: Hot Fuses

Building: Heat Loss
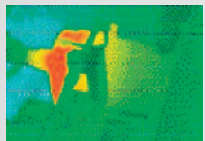
The Difference is Training

Get the most out of your FLIR IR camera investment with world-class instruction through the Infrared Training Center (ITC), the largest infrared applications training organization in the world. The ITC's Level 1 Infrared Thermography Training Course is geared to the new infrared camera user and focuses on its use for a variety of condition monitoring/predictive maintenance applications. Level 2 and Level 3 certificate courses for more advanced infrared training are also available. Courses are taught by certified instructors with extensive experience in a wide variety of infrared thermography and thermal imaging applications. ITC certifications are recognized by major professional organizations.
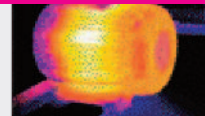
QuickReport PC software enables user to analyze Temperature of all thermal pixels of any FLIR Camera JPEG images
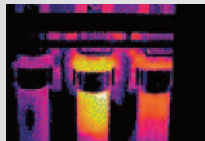
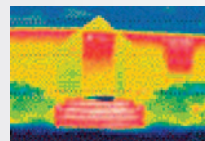## FLIR i-Series Specifications

Features	FLIR i40	FLIR i50	FLIR i60
Temperature range	-4°F to 662°F (-20°C to 350°C)	-4°F to 662°F (-20°C to 350°C)	-4°F to 662°F (-20°C to 350°C)
Image Storage (1GB micro SD card)	1000 Images	1000 Images	1000 Images
Emissivity 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 (4.7")	25° X 25°/0.12m (4.7")	25° X 25°/0.12m (4.7")
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	120 X 120 pixels	140 X 140 pixels	180 x 180 pixels
Spectral range	7.5 to 13µm	7.5 to 13µm	7.5 to 13µm
Display	3.5" color LCD	3.5" color LCD	3.5" color 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 Light Camera Resolution	0.6 Megapixels	2.3 Megapixels	2.3 Megapixels
Laser / Classification	—	Yes / Class 2	Yes / Class 2
Laser Type	—	Semiconductor AlGaInP Diode Laser: 1mW/635nm	Semiconductor AlGaInP Diode Laser: 1mW/635nm
Laser Marker Function	—	—	On IR image
Spot (center) Measurement mode	Yes	Yes	Yes
Auto Hot/Cold Spot Marker	—	—	Yes
Area (min/max) Measurement mode	Yes	Yes	Yes
Image Controls (All models)	Palettes (Iron, Rainbow, and Black/White), level, span, auto adjust (continuous/manual)		
Focus	Manual	Manual	Manual
Set-up controls (All models)	Date/time, info, LCD intensity, power down, and 21 languages		
Battery Type/operating time	Li-Ion/ 5 hours, Display shows battery status		
Dimensions/Weight	9.3x3.2x6.9" (235x81x175mm)/<1.32lbs (600g), including battery		

EXTECH Ordering Information

Part Number	Product Description
FLIR i40	Thermal Imaging InfraRed Camera
FLIR i50	Thermal Imaging InfraRed Camera with Laser
FLIR i60	Thermal Imaging InfraRed Camera with Laser and scalable PIP

ACCESSORIES

1196398	Li-Ion Rechargeable Battery
1910399	AC Adapter Charger (110-240V, U.S. Plug)
1910490	Cigarette Lighter Adapter Kit, 12VDC (1.2m cable)
1196474	2-Bay Battery Charger including Power Supply (U.S. plug)
1122000	Camera Pouch Case

CERTIFICATION TRAINING

ITC LEVEL 1	ITC Level 1 Certification Training per attendee

(Ask about our Extended Warranty Plans on the FLIR Thermal Cameras)

www.extech.com/FLIR

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