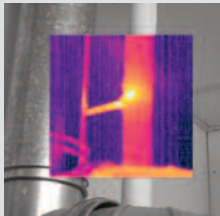


# Thermal Imaging InfraRed Cameras

High Resolution Visible Light Cameras with Fusion (PIP)



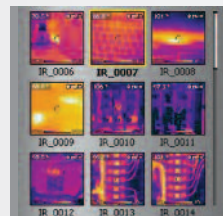
Fusion - Picture in Picture



Built-in Laser Pointer



Built-in Illuminator Lights



Thumbnail Image Gallery



## i-Series Features

- *Latest Infrared Detector Technology*
- *Fusion Picture in Picture (PIP)*
- *Bright LED Lamps for Quality Visible Images*
- *Thermal Sensitivity of <math><0.1^{\circ}\text{C}</math> @ <math>25^{\circ}\text{C}</math>*
- **Visible Light Digital Camera** — Up to 2.3MP resolution with LED lamps provides sharp images regardless of lighting conditions
- **Fusion Picture in Picture (PIP)** — Displays thermal image super-imposed over a digital image
- **0.1°C Thermal Sensitivity** — Provides the resolution needed to find problems faster and easier
- **Wide Temperature Range** — Measures from -4 to 662°F (-20 to 350°C) targeting electrical and industrial applications
- **Thumbnail Image Gallery** — Allows quick search of stored images
- **Laser LocatIR™ Pointer** — Pinpoints the hot spot on the IR image with the real physical target (FLIR i50 and i60 only)
- **Radiometric JPEG Images** — Patented technology used to save images in standard JPEG format for easy e-mailing and analysis using QuickReport™ PC Software (included)
- **1GB microSD Card** — Stores more than 1000 Radiometric JPEG images
- **Li-Ion Rechargeable Battery** — Replaceable battery lasts for 5hrs of continuous use
- **Area (Min/Max) Mode** — Spot marker shows the Minimum or the Maximum Temperature reading within the selected area
- **Includes** — 1GB micro SD Card, miniSD adaptor, Li-Ion rechargeable battery, power supply, QuickReport™ software, USB cable, lens cap, hand strap, and heavy duty case
- *Lightweight — Weighs only 1.3lbs*
- *Easy One-handed Operation*
- *3.5" LCD with Razor Sharp Resolution*
- *Convenient Thumbnail Image Gallery*

### FLIR i40 Additional Features

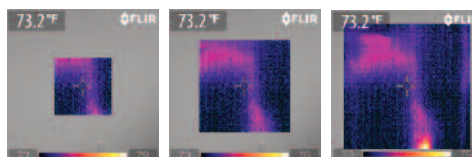
- 0.6MP Visible Light Camera resolution
- Picture in Picture (PIP) fixed
- 14,400 pixels (120 x 120)

### FLIR i50 Additional Features

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

### FLIR i60 Additional Features

- 2.3MP Visible Light Camera resolution
- Scalable Picture in Picture (PIP) feature (see right illustration)
- 32,400 pixels (180 x 180)
- 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

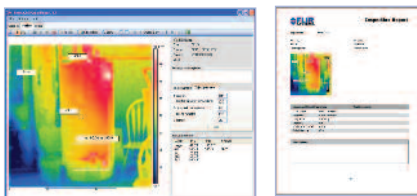


FLIR i60 — Scalable Fusion picture in picture feature permits you to resize the thermal image as needed on a large 3.5" color display



### The Difference is Training

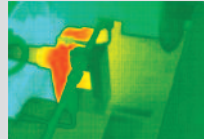
Get the most out of your FLIR IR camera investment with world-class instruction through the Infrared Training Center (ITC), the largest infrared applications training organization in the world. The ITC's Level 1 Infrared Thermography Training Course is geared to the new infrared camera user and focuses 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.



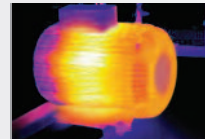
QuickReport™ PC software enables user to analyze Temperature of all thermal pixels of any FLIR Camera JPEG images



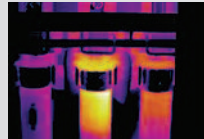
## Applications



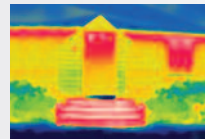
Motor: Bearing Problem



Motor: Internal Winding Problem



Electrical: Hot Fuses



Building: Heat Loss



## 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)
Temperature accuracy	±2°C or ±2% of reading	±2°C or ±2% of reading	±2°C or ±2% of reading
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)
<b>Imaging Performance / Image Presentation</b>			
Field of view/min focus distance	25° X 25°/0.10m (3.9")	25° X 25°/0.10m (3.9")	25° X 25°/0.10m (3.9")
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" 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 On IR image
Laser Marker Function	—	—	—
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	Price
FLIR i40	Thermal Imaging InfraRed Camera	\$4995.00
FLIR i50	Thermal Imaging InfraRed Camera with Laser	\$5995.00
FLIR i60	Thermal Imaging InfraRed Camera with Laser and scalable PIP	\$7995.00
<b>ACCESSORIES</b>		
1196398	Li-Ion Rechargeable Battery	\$199.00
1910399	AC Adapter Charger (110-240V, U.S. Plug)	\$300.00
1910490	Cigarette Lighter Adapter Kit, 12VDC (1.2m cable)	\$99.00
1196474	2-Bay Battery Charger including Power Supply (U.S. plug)	\$450.00
1122000	Camera Pouch Case	\$175.00
<b>CERTIFICATION TRAINING</b>		
ITC LEVEL 1	ITC Level 1 Certification Training per attendee	\$1750.00

www.extech.com/FLIR

TEL: 1.877.744.FLIR

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