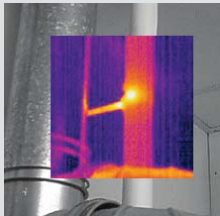


Thermal Imaging InfraRed Cameras

High Resolution Visible Light Cameras with Fusion (PIP)



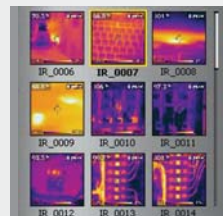
Fusion - Picture in Picture



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> @ 25°C*
- **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 (FLIR i50 and i60 only)
- **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

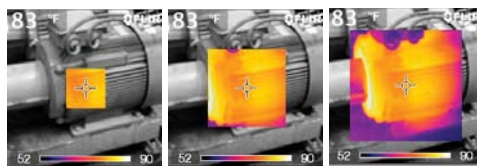
- 0.6MP Visible Light Camera resolution
- Picture in Picture (PIP) fixed
- 14,400 pixels (120 x 120)

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

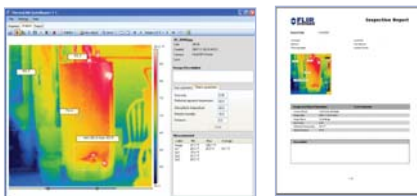


FLIR i60 — Scalable Fusion picture in picture feature permits you to resize the thermal image as needed on a large 3.5" color display



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.



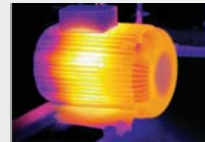
QuickReport™ PC software enables user to analyze Temperature of all thermal pixels of any FLIR Camera JPEG images



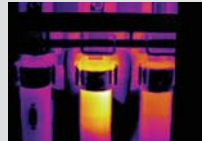
Applications



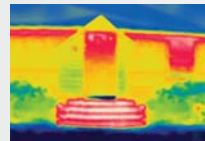
Motor: Bearing Problem



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)
Imaging Performance / Image Presentation			
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
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

www.extech.com/iseries

TEL: 1.877.744.FLIR

Specifications and prices subject to change without notice. Rev. 11/10/08-R1
Copyright © 2008 Extech Instruments Corporation (A FLIR Company). All rights reserved including the right of reproduction in whole or in part in any form.

EXTECH[®]
INSTRUMENTS
A FLIR COMPANY