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## Test & Measurement

- sales
- rentals
- calibration
- repair
- disposal

## Complimentary Reference Material

This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.

TMG offers a wide range of test equipment solutions, from renting short to long term, buying refurbished and purchasing new. Financing options, such as Financial Rental, and Leasing are also available on application.

TMG will assist if you are unsure whether this model will suit your requirements.

Call TMG if you need to organise repair and/or calibrate your unit.

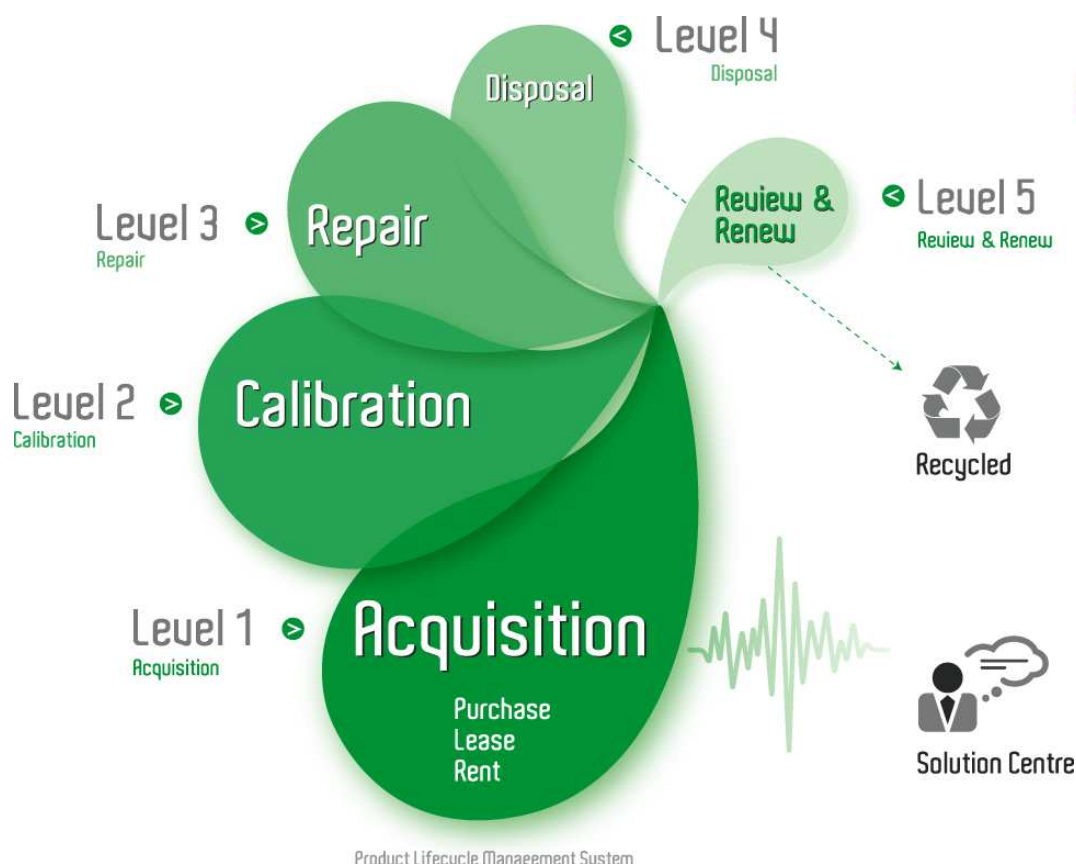
If you click on the “Click-to-Call” logo below, you can call us for FREE!

TMG Corporate Website

TMG Products Website



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### Disclaimer:

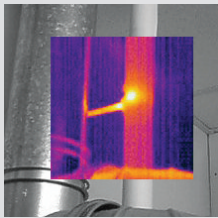
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**FLIR i50****NEW!**

# Thermal Imaging InfraRed Camera

High Resolution Visible Light Camera with Fusion (PIP)



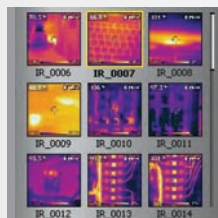
Fusion - Picture in Picture



Built-in Laser Pointer



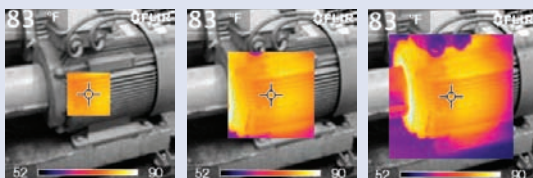
Built-in Illuminator Lights



Thumbnail Image Gallery

## FLIR i50 Features

- *Latest Infrared Detector Technology*
- *Fusion Picture in Picture (PIP)*
- *Bright LED Lamps for Quality Visible Images*
- *Thermal Sensitivity of  $<0.1^{\circ}\text{C}$  @  $25^{\circ}\text{C}$*
- **Visible Light Digital Camera** — 2.3MP resolution with LED lamps provides sharp images regardless of lighting conditions
- **Infrared Thermal Resolution** — High resolution of 19,600 pixels (140 x 140)
- **Fusion Picture in Picture (PIP)** — Displays thermal image super-imposed over a digital image and is scalable in 3 fixed steps to resize the thermal image
- **$0.1^{\circ}\text{C}$  Thermal Sensitivity** — Provides the resolution needed to find problems faster and easier
- **Wide Temperature Range** — Measures from  $-4$  to  $662^{\circ}\text{F}$  ( $-20$  to  $350^{\circ}\text{C}$ ) 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
- **Lightweight** — Weighs only 1.3lbs
- **Easy One-handed Operation**
- **3.5" LCD with Razor Sharp Resolution**
- **Convenient Thumbnail Image Gallery**
- **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



### Picture-in-Picture Fusion

Allows for easier identification and interpretation of infrared images. This advanced technology enhances the value of an infrared image by allowing you to overlay it directly over the corresponding visible image. This functionality combines the benefits of both the infrared image and visual picture at the push of a button. The scalability feature permits you to resize the thermal image in 3 fixed steps on a large 3.5" color display.



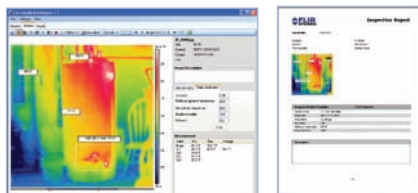
### Easy-to-Use

One-handed operation simple Thumb-Press combo button is unsurpassed for quick and easy menu access and feature selection.



### 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.



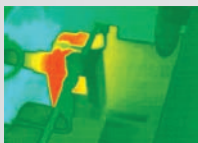
**QuickReport™ PC software** enables user to analyze Temperature of all thermal pixels of any FLIR Camera JPEG images



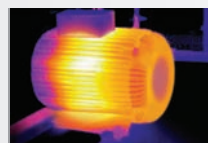
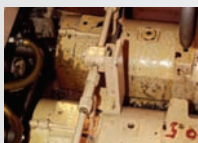
**Tel: 1.800.464.6372**  
**CANADA: 1.800.613.0507**  
**www.goinfrared.com**

Specifications and prices subject to change without notice. Rev. 3/5/09-R1  
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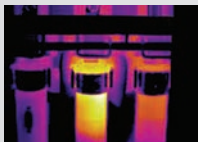
## Applications



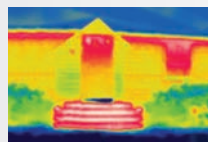
Motor: Bearing Problem



Motor: Internal Winding Problem



Electrical: Hot Fuses



Building: Heat Loss



## FLIR i50 Specifications

### Features

Temperature range	-4°F to 662°F (-20°C to 350°C)
Temperature accuracy	±2°C or ±2% of reading
Image Storage (1GB micro SD card)	1000 Images
Emissivity Table	0.1 to 1.0 (adjustable)

### Imaging Performance / Image Presentation

Field of view/min focus distance	25° X 25°/0.10m (3.9")
Thermal sensitivity (N.E.T.D)	<0.1°C at 25°C
Detector Type - Focal plane array (FPA) uncooled microbolometer	19,600 pixels (140 x 140)
Spectral range	7.5 to 13µm
Display	3.5" color LCD
Video output	MPEG-4 via USB
Image Modes	Thermal, Visual, Fusion
Fusion Picture in Picture (PIP)	3 fixed steps
Visible Light Camera Resolution	2.3 Megapixels
Laser / Classification	Yes / Class 2
Laser Type	Semiconductor AlGaInP; Diode Laser: 1mW/635nm
Spot (center) Measurement mode	Yes
Area (min/max) Measurement mode	Yes
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/Weight	9.3x3.2x6.9" (235x81x175mm)/<1.32lbs (600g), including battery

## Ordering Information

Part Number	Product Description	Price
<b>FLIR i50</b>	Thermal Imaging Infrared Camera with Laser and scalable PIP	
<b>ACCESSORIES</b>		
<b>1196398</b>	Li-Ion Rechargeable Battery	
<b>1910399</b>	AC Adapter Charger (110-240V, U.S. Plug)	
<b>1910490</b>	Cigarette Lighter Adapter Kit, 12VDC (1.2m cable)	
<b>1196474</b>	2-Bay Battery Charger including Power Supply (U.S. plug)	
<b>1122000</b>	Camera Pouch Case	
<b>CERTIFICATION TRAINING</b>		
<b>3300149</b>	ITC Level 1 Certification Training per attendee	

