

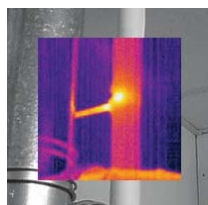


FLIR i40

## i-Series InfraRed Camera (120 x 120 IR Resolution)

With on board Visual Camera, Picture-in-Picture Fusion, and Bright LED Lights

- 0.1°C @ 25°C Thermal Sensitivity
- Bright LED Lights
- Picture-in-Picture Fusion
- 3.5" Razor Sharp color LCD Display
- Lightweight (1.3lbs)
- Area Min/Max Spot Marker
- Analysis/Reporting Software included



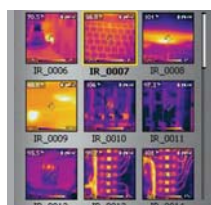
Picture-in-Picture (PIP) Fusion



Built-in Laser Pointer



Built-in Illuminator Lights



Thumbnail Image Gallery



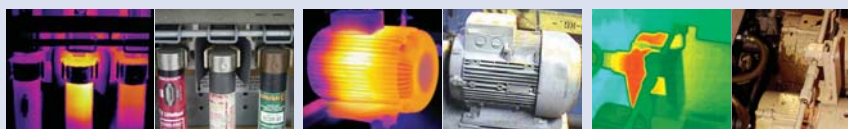
## FLIR i40 Features

- **IR Image Resolution** — 14,400 pixels (120 x 120) Infrared resolution
- **Visible Light Digital Camera** — 0.6MP resolution with flash provides sharp images regardless of lighting conditions
- **Picture in Picture (PIP) Fusion** — Displays thermal image super-imposed over a digital image
- **Bright LED Lights** — Allow the visual camera and fusion to be used in poorly lit environments
- **Wide Temperature Range** — From -4 to 662°F (-20 to 350°C) targeting electrical and industrial applications
- **± 2% Accuracy** — reliable temperature measurement
- **Thumbnail Image Gallery** — Allows quick search of stored images
- **Li-Ion Rechargeable Battery** — lasts >5hrs continuous use; replaceable
- **Copy to USB** — Easy upload of images from camera to USB memory stick
- **Laser LocatIR™ Pointer** — Pinpoints a reference spot with a laser
- **IR Window Correction** — Software settings allow you to account for transmission loss through IR windows
- **Area (Min/Max) Mode** — Shows the Minimum or the Maximum Temperature reading within the selected area
- **Includes** — Memory Card with adapter (stores >1000 Radiometric JPEG images), Li-Ion rechargeable battery, power supply, QuickReport software, USB cable, hand strap, camera lens cap, and hard case



Warranty extended to 2 years when the camera is registered

## Applications



Electrical: Hot Fuses

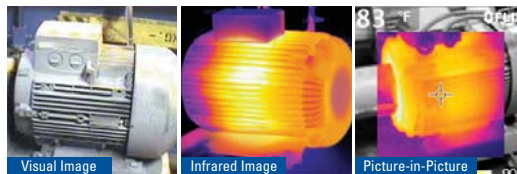
Motor: Internal Winding Problem

Motor: Bearing Problem



### 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.



### 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.



### Bright LED Lights

Exclusive, built-in illuminator lamps shed light on poorly lit sites. Low light areas like electrical cabinets, storage facilities, or night-time spots will create dark visual images that can hamper your ability to illustrate problems effectively. FLIR cameras ensure quality visual images regardless of job site lighting levels.

## FLIR i40 Specifications

| Features                                                        |                                                                                                                                                   |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature range                                               | -4°F to 662°F (-20°C to 350°C)                                                                                                                    |
| Image Storage                                                   | >1000 radiometric JPEG images (SD card memory)                                                                                                    |
| Imaging Performance / Image Presentation                        |                                                                                                                                                   |
| Frame Rate                                                      | 9Hz                                                                                                                                               |
| Field of view/min focus distance                                | 25° x 25°/3.9' (0.1m)                                                                                                                             |
| Focus                                                           | Manual (Minimum focus distance 1.3ft/0.4m)                                                                                                        |
| Thermal sensitivity (N.E.T.D)                                   | <0.1°C at 25°C                                                                                                                                    |
| Detector Type - Focal plane array (FPA) uncooled microbolometer | 120 x 120 pixels                                                                                                                                  |
| Spectral range                                                  | 7.5 to 13µm                                                                                                                                       |
| Display                                                         | Built-in 3.5" color LCD                                                                                                                           |
| Image modes                                                     | Thermal/Visual/Picture-in-Picture Fusion (Fixed)                                                                                                  |
| Video Lamps                                                     | Bright LED lamps                                                                                                                                  |
| Laser Classification/Type                                       | Class 2/Semiconductor AlGaInP Diode Laser: 1mW/635nm (red)                                                                                        |
| Set-up controls                                                 | Mode selector, color palettes, configure info to be shown in image, local adaptation of units, language, date and time formats, and image gallery |
| Measurement modes                                               | 1 Spotmeter (Center spot), 1 Box area (full image with min/max)                                                                                   |
| Measurement correction                                          | Reflected ambient temperature & emissivity correction                                                                                             |
| Battery Type/operating time                                     | Li-Ion/ >5 hours, Display shows battery status                                                                                                    |
| Charging system                                                 | In camera AC adapter/2 bay charging system                                                                                                        |
| Shock                                                           | 25G, IEC 68-2-29                                                                                                                                  |
| Vibration                                                       | 2G, IEC 68-2-6                                                                                                                                    |
| Dimensions/Weight                                               | 9.3x3.2x6.9" (235x81x175mm)/<1.32lbs (600g), including battery                                                                                    |
| Warranty                                                        | 2 years (Warranty extended to 2 years when the camera is registered)                                                                              |

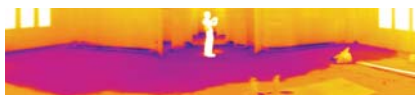
### Software Packages

**QuickReport™** PC software enables users to Organize, Analyze and Create Reports with FLIR Cameras.

**FLIR BuildIR Software** package specifically designed to carry out advanced analysis of building structures. It is used to analyze images taken with an infrared camera, and create inspection reports based on these images.

**FLIR Reporter Ver. 8.5** is a powerful software for creating compelling and professional, fully customized, easy-to-interpret reports in a standard MS Word Document. You can create a report by simply Dragging and Dropping your images on a desktop icon or using the Wizards to guide you step-by-step through the process. The saved document is a 'live' report with full access to the analysis tools and temperature measurement data. The reports can be multi-page and include all of your IR inspection data -infrared and visual images, temperature measurements, voice comments and text notes.

**Panorama Function** allows you to conveniently piece together normal sized images to create one large image for a wide angle view of the area being measured by using FLIR BuildIR or Reporter Software package



## Ordering Information

| Part Number            |                                                            |
|------------------------|------------------------------------------------------------|
| <b>39903-1501</b>      | FLIR i40 Thermal Imaging InfraRed Camera (120x120)         |
| ACCESSORIES            |                                                            |
| <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>T197650</b>         | 2-Bay Battery Charger including Power Supply (multi plugs) |
| <b>1122000</b>         | Camera Pouch Case                                          |
| <b>T197613</b>         | BuildIR Software package                                   |
| <b>T197717</b>         | FLIR Reporter Ver. 8.5 Professional                        |
| CERTIFICATION TRAINING |                                                            |
| <b>ITC LEVEL I</b>     | ITC Level I Certification Training per attendee            |

Tel: 1.877.744.FLIR | [www.extech.com/iseries](http://www.extech.com/iseries)

Specifications and prices subject to change without notice. Rev. 03/03/10-R1

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