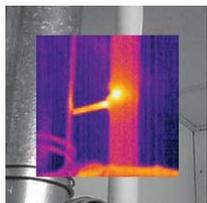# FLIR®

E-Series InfraRed Camera (160 x 120 IR Resolution)

With on board Visual Camera, Wi-Fi, Picture-in-Picture, and Bright LED Light

- *0.07°C @ 30°C Thermal Sensitivity*
- *Bright LED Light*
- *Annotate Images with Voice*
- *Picture-in-Picture (Fixed)*
- *3.5" Touch-Screen LCD Display*
- *2X Continuous Zoom*
- *Area Min/Max/Average with Auto Hot/Cold Spot Marker*
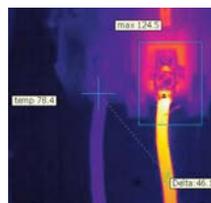- *Delta T - Differential Temperature*

Picture-in-Picture (PIP) Fusion   Built-in Laser Pointer   Built-in Illuminator Light   Differential Temperature
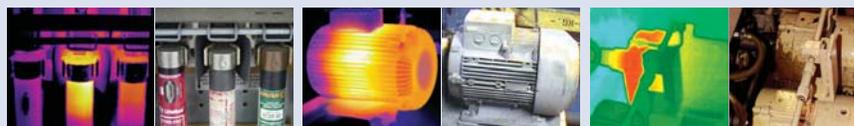
FLIR E40 Features

- **High Resolution IR Images** — 19,200 pixels (160 x 120) Infrared resolution

- **Visible Light Digital Camera** — 3.1MP resolution with LED lamp provides sharp images regardless of lighting conditions

- **Picture in Picture (PIP)** — Displays thermal image super-imposed over a digital image

- **Bright LED Light** — Allows the visual camera and fusion to be used in poorly lit environments

- **Wide Temperature Range** — From -4 to 1202°F (-20 to 650°C) targeting electrical and industrial applications

- **± 2% Accuracy** — reliable temperature measurement

- **Thumbnail Image Gallery** — Allows quick search of stored images

- **Li-Ion Rechargable Battery** — lasts >4hrs continuous use; replaceable

- **Laser LocatIR™ Pointer** — Pinpoints a reference spot with a laser

- **Laser Marker** — Marks the point on the IR displayed image as to where the Laser pointer is targeting

- **Wi-Fi Connectivity** — Sends images and data to mobile devices (ie iPhone® or iPad®) to share reports and critical information quickly

- **IR Window Correction** — Software settings allow you to account for transmission loss through IR windows

- **Area (Min/Max/Average) Mode** — Shows the Minimum, Maximum or Average Temperature reading within the selected area

- **Auto Hot/Cold Spot Marker** — Marks the area that automatically finds the hottest or coldest spot within the box

- **Voice Comment Recording and Text Annotation** — on images & can be integrated onto report

- **Wireless Communication** — Bluetooth® Transmitter with METERLiNK™

- **Includes** — Memory Card with adapter (stores >1000 Radiometric JPEG images), Li-Ion rechargeable battery, power supply, USB cable, hand strap, camera lens cap, and hard case, and FLIR Tools software CD-ROM

CE   IP54 Splashproof Dustproof   2 WARRANTY   METER LiNK · Bluetooth®

Warranty extended to 2 years when the camera is registered

Applications

Electrical: Hot Fuses   Motor: Internal Winding Problem   Motor: Bearing Problem

METER LiNK
Bluetooth®

METERLiNK frees the Thermographer from the manual process of collecting field data

Infrared cameras quickly locate problems with electrical equipment

Collecting current measurements and associating them with the right component identified on an infrared image, can be a complicated and cumbersome process
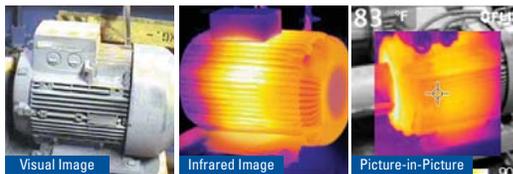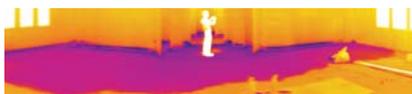
Manual data collection results in unnecessary complexity and risk. METERLiNK eliminates this problem by allowing the thermographer to quickly take a current reading on an electrical target and associate those readings with the corresponding targets stored in an infrared image

Software Packages

FLIR Reporter 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.

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.

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

Visual Image | Infrared Image | Picture-in-Picture

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 Light
Exclusive, built-in illuminator lamp sheds 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 E40 Specifications

Features	
Temperature range	-4°F to 1202°F (-20°C to 650°C)
Image Storage	>1000 radiometric JPEG images (SD card memory)

Imaging Performance / Image Presentation	
Frame Rate	60Hz
Field of view/min focus distance	25° x 19°/1.31ft (0.4m)
Focus	Manual (Minimum focus distance 1.3ft/0.4m)
Thermal sensitivity (N.E.T.D)	<0.07°C at 30°C
Detector Type - Focal plane array (FPA) uncooled microbolometer	160 x 120 pixels
Spectral range	7.5 to 13µm
Display	Built-in 3.5" color LCD
Image modes	Thermal/Visual/Picture-in-Picture (Fixed)
Image annotation	Voice (60 sec); Text comments
Video Lamp	Bright LED lamp
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	3 Spotmeters (movable), 3 Area Boxes (full image with min/max/average), Auto hot/cold spot, Isotherm (above/below/interval), Delta-T
MPEG 4 Video Recording	Yes
MPEG Streaming Video Wi-Fi	Yes
Measurement correction	Reflected ambient temperature & emissivity correction
Battery Type/operating time	Li-Ion/ >4 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	9.7x3.8x7.2" (246x97x184mm)/<1.82lbs (825g), including battery
Warranty	2 years (Warranty extended to 2 years when the camera is registered)

Ordering Information

Part Number	
49001-0301 ....FLIR E40 Thermal Imaging InfraRed Camera (160x120)	

ACCESSORIES
T197752 ....Li-Ion Rechargeable Battery
T910814 ....AC Adapter Charger (110-240V, U.S. Plug)
1196497 ....Cigarette Lighter Adapter Kit, 12VDC (1.2m cable)
T197910 ....2-Bay Battery Charger including Power Supply (multi plugs)
T197717 ....FLIR Reporter Professional Analysis Software
T197778 ....BuildIR Software package
T197965 ....FLIR Tools Software package
1196961 ....15° Telephoto Lens
1196960 ....45° Wide Angle Lens

CERTIFICATION TRAINING
ITC LEVEL I ....ITC Level I Certification Training per attendee

EXTECH® INSTRUMENTS
A FLIR COMPANY