FLIR E40
For electrical/industrial applications

E-Series InfraRed Camera (160 x 120 IR Resolution)
With on board Visual Camera, 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 with Auto Hot/Cold Spot Marker
- Delta T - Differential Temperature

FLIR E40 Features

- High Resolution IR Images - 19,200 pixels (160 x 120) Infrared resolution
- Visible Light Digital Camera - 3MP resolution with flash 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 -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 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
- Laser Marker - Marks the point on the IR displayed image as to where the Laser pointer is targeting
- 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
- Voice Comment Recording and Text - on images & can be integrated onto report
- Wireless Communication - Bluetooth® transmitter with METERLINK™

Applications:
- Electrical: Hot Fuses
- Motor: Internal Winding Problem
- Motor: Bearing Problem
FLIR E40 Specifications

### Imaging and optical data
- **Field of view (FOV)/Minimum focus distance**: 25°×19°/0.4 m (1.31 ft.)
- **Spatial resolution (IFOV)**: 2.7/2 mm
- **Thermosensitivity/NETD**: <0.07°C/80 mK
- **Imaging frequency**: 60Hz
- **Focus**: Manual
- **Zoom**: 1–2 continuous, digital zoom, including panning
- **Focal Plane Array (FPA)/Spectral range**: Uncooled microbolometer 7.5–13 µm

### Measurement
- **Objective temperature range**: –20°C to +120°C (+32°F to +248°F)
- **Accuracy**: ±2°C (±3.6°F) or ±2% of reading
- **Object temperature range**: –20°C to +120°C (+32°F to +248°F)
- **Image modes**: IR image, visual image, picture in picture, thumbnail gallery
- **IR Resolution**: 160 × 120 pixels
- **Spotmeter**: 3
- **Spotsize**: 10 mm, 45° incl. case
- **IR Lens**: f = 10 mm, 45° incl. case

### Display
- **Touchscreen**: 3.5 in. LCD, 320 × 240 pixels

### Digital camera
- **IR Camera**: 3.1 Mpixel (2048 × 1536 pixels), and one LED light
- **Image storage**: JPEG, including measurement data, on memory card
- **Image storage mode**: IR/visual images, simultaneous storage of IR and visual images

### Power supply
- **Battery**: Li Ion, 4 hours operating time
- **Charging system**: In-camera (AC adapter or 12V from vehicle) or 2-bay charger
- **Power management**: Automatic shutoff and sleep mode (user selectable)

### Operating temperature range
- **Operating temperature range**: –15°C to +50°C (+5°F to +122°F)
- **Storage temperature range**: –40°C to +70°C (+4°F to +158°F)
- **Humidity (operating and storage)**: IEC6068-2-20 (95% relative humidity ±25°C +40°C (77°F to +104°F)) / 2 cycles
- **Encapsulation**: IP54 (IEC60529)
- **Bump**: 25g (IEC6068-2-29)
- **Vibration**: 1g (IEC6068-2-33)
- **Physical data**: Camera weight, incl. battery 0.825 kg (1.82 lb.), Camera size (L×W×H) 246 × 97 × 184 mm (9.7 × 3.8 × 7.2 in.)

### Options and accessories
- **USB**: mini, USB-A, Bluetooth, Wi-Fi, composite video
- **Video output**: Composite
- **Power system**: In-camera (AC adapter or 12V from vehicle) or 2-bay charger
- **Battery**: Li Ion, 4 hours operating time

### Manual data collection
- **Manual data collection**: Automatic shutoff and sleep mode (user selectable)

### Operating temperature range
- **Operating temperature range**: –15°C to +50°C (+5°F to +122°F)
- **Storage temperature range**: –40°C to +70°C (+4°F to +158°F)
- **Humidity (operating and storage)**: IEC6068-2-20 (95% relative humidity ±25°C +40°C (77°F to +104°F)) / 2 cycles
- **Encapsulation**: IP54 (IEC60529)
- **Bump**: 25g (IEC6068-2-29)
- **Vibration**: 1g (IEC6068-2-33)
- **Physical data**: Camera weight, incl. battery 0.825 kg (1.82 lb.), Camera size (L×W×H) 246 × 97 × 184 mm (9.7 × 3.8 × 7.2 in.)

### Optional Software Packages

**FLIR Reporter Professional** 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.

**Software for Research & Development** Infrared cameras are successfully used in R&D applications to speed up and verify the design process, as well as enabling fast, non-invasive and precise detection of deficiencies. With FLIR QuickPlot and/or FLIR ResearchIR, the benefits and use of an infrared camera can be further extended and allow more in-depth analyses to be made.

**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.