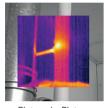


### FLIR E40

For electrical/industrial applications

# E-Series InfraRed Camera (160 x120 IR Resolution) With on board Visual Camera, Picture-in-Picture, and Bright LED Light

- 0.07°C @ 30°C Thermal Sensitivity
- Bright LED Light
- Text Annotation
- 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



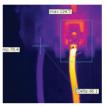
Picture-in-Picture (PIP) Fusion



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 3MP resolution with flash provides sharp images regardless of lighting
- 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-lon Rechargable 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 Minumum or the Maximum 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
- Text Annotation on images & can be integrated onto report
- Includes Hard transport case, Infrared camera with lens, Battery, Calibration certificate, Camera lens cap, FLIR Tools software CD-ROM Handstrap, Memory card, Power supply, incl. multi-plugs Printed **Getting Started Guide Printed** Important Information Guide, USB cable, User documentation CD-ROM, Video cable, Warranty extension card or Registration card



## **Applications**





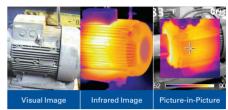
# FLIR E40 Specifications

Imaging and optical data	250 100/0 4/1 21(+ )
Field of view (FOV)/Minimum focus distance	25°×19°/0.4m(1.31ft.)
Spatial resolution (IFOV)	2.72mrad
Thermal sensitivity/NETD	<0.07°C@+30°C(+86°F)/70mK
Imagefrequency Focus	60Hz
	Manual
Zoom	1–2×continuous, digital zoom, including panning
Focal Plane Array (FPA)/Spectral range	Uncooledmicrobolometer/7.5–13µm
IRresolution Image presentation	160×120pixels
3-1	Touchscreen,3.5in.LCD,320×240pixels
Display	Rimage, visualimage, picture in picture, thumbnail gallery
Imagemodes PictureinPicture	
Measurement	IRarea on visual image
Objecttemperaturerange	-20°Cto+120°C(-4°Fto+248°F)
Objectiemperaturerange	0°Cto+650°C(+32°Fto+1202°F)
Accuracy	±2°C(±3.6°F)or±2%ofreading
Measurementanalysis	0
Spotmeter	3
Area	3boxeswithmax./min./average
Automatic hot/cold detection	Autohotorcoldspotmetermarkerswithinarea
Isotherm	Detecthigh/lowtemperature/interval
Differencetemperature	Deltatemperature between measurement functions or reference temperature
Emissivitycorrection	Variablefrom 0.01 to 1.0 or selected from materials list
External optics/windows correction	Automatic, based on inputs of optics/window transmission and temperature
Measurementcorrections	Reflectedtemperature, optics transmission and atmospheric transmission
Set-up	
Colorpalettes	Arctic, Gray, Iron, Lava, Rainbow and Rainbow HC
Set-up commands	Local adaptation of units, language, date and time formats
Languages	21
Storage of images	
Imagestorage	Standard JPEG, including measurement data, on memory card
Imagestoragemode	IR/visualimages;simultaneousstorageofIRandvisualimages
Digital camera	
Built-indigital camera	3.1 Mpixel (2048×1536 pixels), and one LED light
Built-in digitallens data	F0V53°×41°
Data communication interfaces	
Interfaces	USB-mini, USB-A, composite video
USB	USB-A: Connect external USB device
	USB Mini-B: Data transfer to and from PC/streaming MPEG-4
Videoout	Composite
Powersystem	
Battery	Lilon,4hoursoperatingtime
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Powermanagement	Automatic shutdown and sleep mode (user selectable)
Environmental data	4500, 5000/ 505, 40005)
Uperatingtemperaturerange	-15°Cto+50°C(+5°Fto+122°F)
Storagetemperaturerange	-40°Cto+70°C(-40°Fto+158°F)
Humidity(operating and storage)	IEC60068-2-30/24h95%relative humidity + 25°Cto + 40°C(+77°Fto + 104°F)/2 cycles
Encapsulation	IP54(IEC60529)
Bump	25g(IEC60068-2-29)
Vibration	2g(IEC60068-2-6)
Physical data	0.0001/4.001\
Camera weight, incl. battery	0.825kg(1.82lb.)
Camera size (L×W×H)	246×97×184mm(9.7×3.8×7.2in.)
Tripod mounting	UNC¼"-20(adapterneeded)
Optional lens	



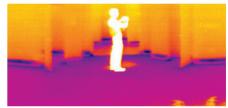
#### **Bright LED Light**

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.



### **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.



### **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.

Softwares for Research & Development Infrared cameras are sucessfully 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/ FLIR ResearchIR, the benefits and use of an infrared camera can be further extended and allow more in depth analayses 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.



#### www.flir.com FLIR offices in Asia Pacific

Asia Pacific Headquarters Hong Kong +852 2792 8955 flir@flir.com.hk

China +86 21 5169 7628 info@flir.cn | Australia +61 3 9550 2800 info@flir.com.au

Japan +81 3 6277 5681 info@flir.jp | Korea +82 2565 2714 sales@flirkorea.com

India +91 11 4606 7100 flirindia@flir.com.hk | Taiwan +886 2 2757 9662 flir@flir.com.hk

•IRlensf=30mm,15°incl.case, IRlensf=10mm,45°incl.case