

FLIR E60

For electrical/industrial applications

E-Series InfraRed Camera (320 x240 IR Resolution)

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

- 0.05°C @ 30°C Thermal Sensitivity
- Bright LED Light
- Annotate Images with Voice
- Picture-in-Picture (Scalable)
- Thermal Fusion

- 3.5" Touch-Screen LCD Display
- 4X Continuous Zoom
- Area Min/Max with Auto Hot/Cold Spot Marker
- Delta T Differential Temperature



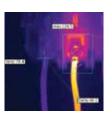
Thermal Fusion



Built-in Laser Pointer



Built-in Illuminator Light



Differential Temperature

FLIR E60 Features

- High Resolution IR Images 76,800 pixels (320 x 240) Infrared resolution
- Visible Light Digital Camera 3MP resolution with flash provides sharp images regardless of lighting conditions
- Thermal Fusion Blending of thermal and digital images in real-time
- Scalable Picture in Picture (PIP)

 Displays thermal image superimposed over a digital image and is scalable to resize the thermal 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
- Voice Comment Recording and Text - on images & can be integrated onto report
- Wireless Communication -Bluetooth[®] transmitter with METERLINK™
- 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







FLIR E60 Specifications

lmaging and optical data	
Field of view (FOV)/Minimum focus distance	25°×19°/0.4m(1.31ft.)
Spatialresolution(IFOV)	1.36mrad
Thermal sensitivity/NETD	<0.05°C@+30°C(+86°F)/50mK
Imagefrequency	60Hz
Focus	Manual
Zoom	1–4×continuous,digitalzoom,includingpanning
Focal Plane Array (FPA)/Spectral range	Uncooled microbolometer/7.5–13 µm
IRresolution	320×240 pixels
Image presentation	
Display	Touchscreen, 3.5 in. LCD, 320×240 pixels
Imagemodes	IRimage, visual image, thermal fusion, picture in picture, thumbnail gallery
Thermalfusion	IRimage shown above, below or within tempin terval on visual image
PictureinPicture	Scalable I Rarea on visual image
Measurement	
Objecttemperaturerange	-20°Cto+120°C(-4°Fto+248°F)
	0°Cto+650°C(+32°Fto+1202°F)
Accuracy	±2°C(±3.6°F)or±2%ofreading
Measurementanalysis	
Spotmeter	3
Area	3boxes with max./min./average
Automatic hot/cold detection	Autohotorcoldspotmetermarkerswithinarea
Isotherm	Detecthigh/lowtemperature/interval
Differencetemperature	Delta temperature between measurement functions or reference temperature
Emissivity correction	Variablefrom0.01to1.0orselectedfrommaterialslist
External optics/windows correction	Automatic, based on inputs of optics/window transmission and temperature
Measurementcorrections	Reflected temperature, 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	StandardJPEG,includingmeasurementdata,onmemorycard
Imagestoragemode	IR/visualimages;simultaneousstorageofIRandvisualimages
Digital camera	
Built-indigital camera	3.1 Mpixel (2048×1536 pixels), and one LED light
Built-indigitallensdata	F0V53°×41°
Data communication interfaces	
Interfaces	USB-mini,USB-A,Bluetooth,Wi-Fi,compositevideo
Bluetooth	Communication with cell phone, PC, head set and external sensors
USB	USB-A:ConnectexternalUSBdevice
	USB Mini-B: Datatransferto and from PC/streaming MPEG-4
Videoout	Composite
Powersystem	
Battery	Lilon,4hoursoperatingtime
Chargingsystem	Incamera (AC adapter or 12 V from a vehicle) or 2-bay charger
Powermanagement	Automatic shutdown and sleep mode (user selectable)
Environmental data	
Operatingtemperaturerange	-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°C to +40°C (+77°F to +104°F)/2 cycl
Encapsulation	IP54(IEC60529)
Bump	25g(IEC60068-2-29)
Vibration	2g(IEC60068-2-6)
Physical data	
Camera weight, incl. battery	0.825kg(1.82lb.)
Camera size (L×W×H)	246×97×184mm(9.7×3.8×7.2in.)
Tripod mounting Optional lens and connecting meters:	UNC¼"-20(adapterneeded)



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



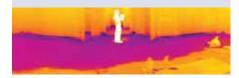
Infrared cameras quickly locate problems with electrical equipment



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



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 and/or FLIR ResearchIR, the benefits and use of an infrared camera can be further extended and allow more indepth 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.



IRlensf=30mm,15°incl.case

IRlensf=10mm.45°incl.case

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•EX845: Clampmeter + IRtherm TRMS 1000A AC/DC

MO297:Moisturemeter, pinless with memory