

FLIR E50

For electrical/industrial applications

E-Series InfraRed Camera (240 x180 IR Resolution) With on board Visual Camera, Picture-in-Picture, Thermal Fusion and Bright LED Light

- 0.05°C @ 25°C Thermal Sensitivity
- Bright LED Light
- Text Annotation
- 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



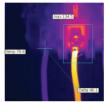




Built-in Laser Pointer



Built-in Illuminator Light



Differential Temperature

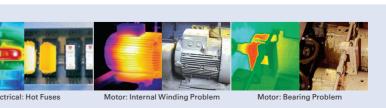
FLIR E50 Features

- High Resolution IR Images 43,200 pixels (240 x 180) Infrared resolution
- Visible Light Digital Camera 3MP resolution with flash provides sharp images regardless of lighting
- 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
- 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



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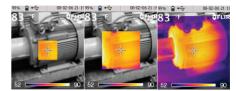
FLIR E50 Specifications

Imaging and optical data	
Field of view (FOV)/Minimum focus distance	25°×19°/0.4m(1.31ft.)
Spatialresolution(IFOV)	1.82mrad
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/7.5–13µm
IRresolution	240×180pixels
Image presentation	2+0×100 pixels
Display	Touchscreen,3.5in.LCD,320×240 pixels
Imagemodes	IRimage, visualimage, thermal fusion, picture in picture, thumbnail gallery
Thermalfusion	Rimageshownabove, beloworwithintempinterval on visual image
Picture in Picture	Scalable IR area on visual image
	Scalable i Karea on visual i mage
Measurement	0000, 10000/ 405, 04005
Objecttemperaturerange	-20°Cto+120°C(-4°Fto+248°F)
Acquirect	0°Cto+650°C(+32°Fto+1202°F)
Accuracy Measurementanalysis	±2°C(±3.6°F)or±2%ofreading
<u> </u>	2
Spotmeter	3 3hayaayiithmay (min (ayarara
Area	3boxeswithmax./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, Rainbowand Rainbow HC
Set-up commands	Local adaptation of units, language, date and time formats
Languages	21
Storage of images	
Imagestorage	StandardJPEG, including measurement data, on memory card
Imagestoragemode	IR/visualimages;simultaneousstorageofIR and visualimages
Digital camera	
Built-indigital camera	3.1 Mpixel (2048×1536 pixels), and one LED light
Built-in digital lens data	F0V53°×41°
Data communication interfaces	
Interfaces	USB-mini, USB-A, composite video
USB	USB-A:ConnectexternalUSB device
	USB Mini-B: Data transfer to and from PC/streaming MPEG-4
Videoout	Composite
Powersystem	
Battery	Lilon,4hoursoperatingtime
Charging system	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°Cto+40°C(+77°Fto+104°F)/2cycles
Encapsulation	IP54(IEC60529)
Bump	25g(IEC60068-2-29)
Vibration	2g(IEC60068-2-6)
Physical data	- 24/1-000000 - 0/
Camera weight, incl. battery	0.825kg(1.82lb.)
Campra ciza (I V M V H)	
Camera size (L×W×H) Tripod mounting	246×97×184mm(9.7×3.8×7.2in.) UNC¼"-20(adapterneeded)



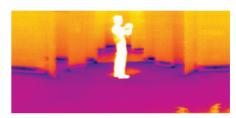
Bright LED Light

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.



Scalable Picture-in-Picture

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. The scalabilty feature permits you to resize the thermal image as needed on a large 3.5" color display.



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.



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

Disclaimer: Images herein are for illustrative purposes only. Specifications are subject to change without notice. Availability of camera models and accessories subject to regional market considerations.