

FLIR E40bx For building applications

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

- 0.045°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
- Humidity and Insulation Alarm for
- building applications



(PIP) Fusion



Built-in Laser Pointer





Built-in Illuminator Light

Differential Temperature

FLIR E40bx 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
- **Optimized Temperature Range** • - From -20° to +120°C targeting building 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 ٠ be integrated onto report
- Humidity and Insulation Alarm - identifies where surface condensation and insufficient insulation in building areas is present
- 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 E4Obx Specifications

Imaging and optical data	
Field of view (FOV)/Minimum focus distance	25°×19°/0.4m(1.31ft.)
Spatial resolution (IFOV)	2.72mrad
Thermal sensitivity/NETD	<0.045°C@+30°C(+86°F)/45mK
Imagefrequency	60Hz
Focus	Manual
Zoom	1–2×continuous,digitalzoom,includingpanning
FocalPlaneArray(FPA)/Spectralrange	Uncooledmicrobolometer/7.5–13µm
IRresolution	160×120pixels
Image presentation	
Display	Touchscreen,3.5in.LCD,320×240 pixels
Imagemodes	IRimage, visualimage, picture in picture, thumbnailgallery
PictureinPicture	Fixed IRarea on visual image
Measurement	Theu mai ea on visualinage
Objecttemperaturerange	-20°Cto+120°C(-4°Fto+248°F)
Accuracy	±2°C(±3.6°F)or±2%ofreading
Measurementanalysis	
	3
Spotmeter	
Area	3boxeswithmax./min./average
Automatic hot/cold detection	Autohotor coldspotmetermarkers within area
Isotherm	Detecthigh/lowtemperature/interval
Differencetemperature	Deltatemperature between measurement functions or reference temperature
Emissivitycorrection	Variable from 0.01 to 1.0 or selected from materials list
Measurementcorrections	Reflected temperature, optics transmission and atmospheric transmission
Humidityalarm	1 humidityalarm, including dewpointalarm
Insulationalarm	1 insulation alarm
Set-up	
Colorpalettes	Arctic, Gray, Iron, Lava, Rainbow and Rainbow HC
Set-up commands	Localadaptation of units, language, date and time formats
Languages	21
Storage of images	
Imagestorage	Standard JPEG, including measurement data, on memory card
Imagestoragemode	IR/visualimages; simultaneous storage of IR and visual images
Digital camera	
Built-indigital camera	3.1 Mpixel (2048×1536 pixels), and one LED light
Built-indigitallens data	FOV53°×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
Chargingsystem	In camera (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)
	IEC60068-2-30/24h95% relative humidity+25°Cto+40°C(+77°Fto+104°F)/2 cycle
Humidity(operating and storage)	
	IP54(IEC60529)
Humidity(operating and storage)	IP54(IEC60529) 25g(IEC60068-2-29)
Humidity(operatingandstorage) Encapsulation Bump	25g(IEC60068-2-29)
Humidity(operating and storage) Encapsulation Bump Vibration	
Humidity(operating and storage) Encapsulation Bump Vibration Physical data	25g(IEC60068-2-29) 2g(IEC60068-2-6)
Humidity(operating and storage) Encapsulation Bump Vibration Physical data Cameraweight, incl. battery	25g(IEC60068-2-29) 2g(IEC60068-2-6) 0.825kg(1.82lb.)
Humidity(operating and storage) Encapsulation Bump Vibration Physical data	25g(IEC60068-2-29) 2g(IEC60068-2-6)

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



Dew Point Alarm

Displays building areas where surface condensation is present which shows a potential for mold growth

Insulation Alarm

Identifies insufficient insulation in building areas where insulation requirements are not met.



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 stepby-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.



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