

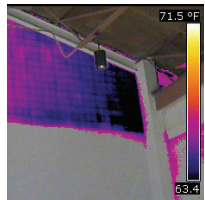


FLIR E50bx
For building applications

E-Series InfraRed Camera (240 x 180 IR Resolution)

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

- 0.045°C @ 30°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
- Humidity and Insulation Alarm for building applications



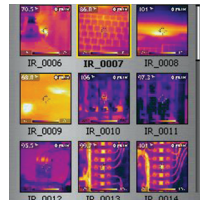
Thermal Fusion



Built-in Laser Pointer



Built-in Illuminator Light



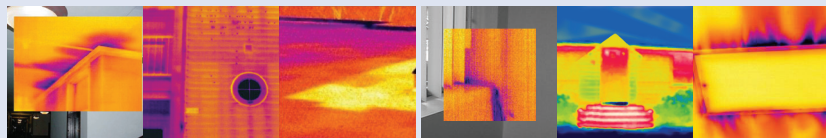
Thumbnail Image Gallery



FLIR E50bx 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 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
- **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-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
- **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
- **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



Water Damage - Water leak on ceiling, wall, and roof top

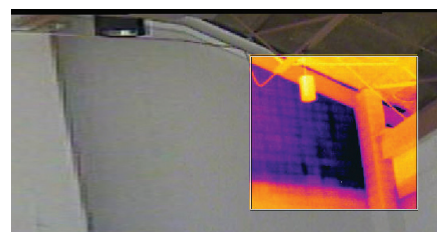
Insulation - Energy Loss, Home Inspection, and HVAC



Warranty extended to 2 years when the camera is registered

FLIR E50bx Specifications

Imaging and optical data	
Field of view (FOV)/Minimum focus distance	25°×19°/0.4m (1.31ft.)
Spatial resolution (IFOV)	1.82mrad
Thermal sensitivity/NETD	<0.045°C@+30°C(+86°F)/45mK
Image frequency	60Hz
Focus	Manual
Zoom	1–4× continuous, digital zoom, including panning
Focal Plane Array (FPA)/Spectral range	Uncooled microbolometer/7.5–13µm
IR resolution	240×180 pixels
Image presentation	
Display	Touchscreen, 3.5in. LCD, 320×240 pixels
Image modes	IR image, visual image, thermal fusion, picture in picture, thumbnail gallery
Thermal fusion	IR images shown above, below or with temp interval on visual image
Picture in Picture	Scalable IR area on visual image
Measurement	
Object temperature range	–20°C to +120°C (–4°F to +248°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading
Measurement analysis	
Spotmeter	3
Area	3 boxes with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Isotherm	Detect high/low temperature/interval
Difference temperature	Delta temperature between measurement functions or reference temperature
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Reflected temperature, optic transmission and atmospheric transmission
Humidity alarm	1 humidity alarm, including dew point alarm
Insulation alarm	1 insulation alarm
Set-up	
Color palettes	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	
Image storage	Standard JPEG, including measurement data, on memory card
Image storage mode	IR/visual images; simultaneous storage of IR and visual images
Digital camera	
Built-in digital camera	3.1 Mpixel (2048×1536 pixels), and one LED light
Built-in digital lens data	FOV 53°×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
Video out	Composite
Power system	
Battery	Li-Ion, 4 hours operating time
Charging system	In camera (AC adapter or 12V from a vehicle) or 2-bay charger
Power management	Automatic shutdown and sleep mode (user selectable)
Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24h 95% relative humidity +25°C to +40°C (+77°F to +104°F)/2 cycles
Encapsulation	IP54 (IEC 60529)
Bump	25g (IEC 60068-2-29)
Vibration	2g (IEC 60068-2-6)
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	UNC ¼"–20 (adapter needed)
Optional lens	
	•IR lens f=30mm, 15° incl. case, IR lens f=10mm, 45° incl. case

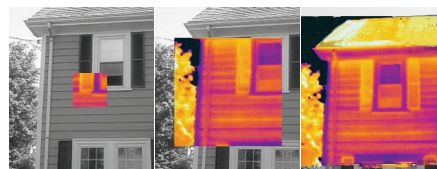


Dew Point Alarm

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

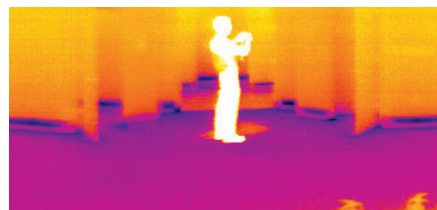
Insulation Alarm

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



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 scalability 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.

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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