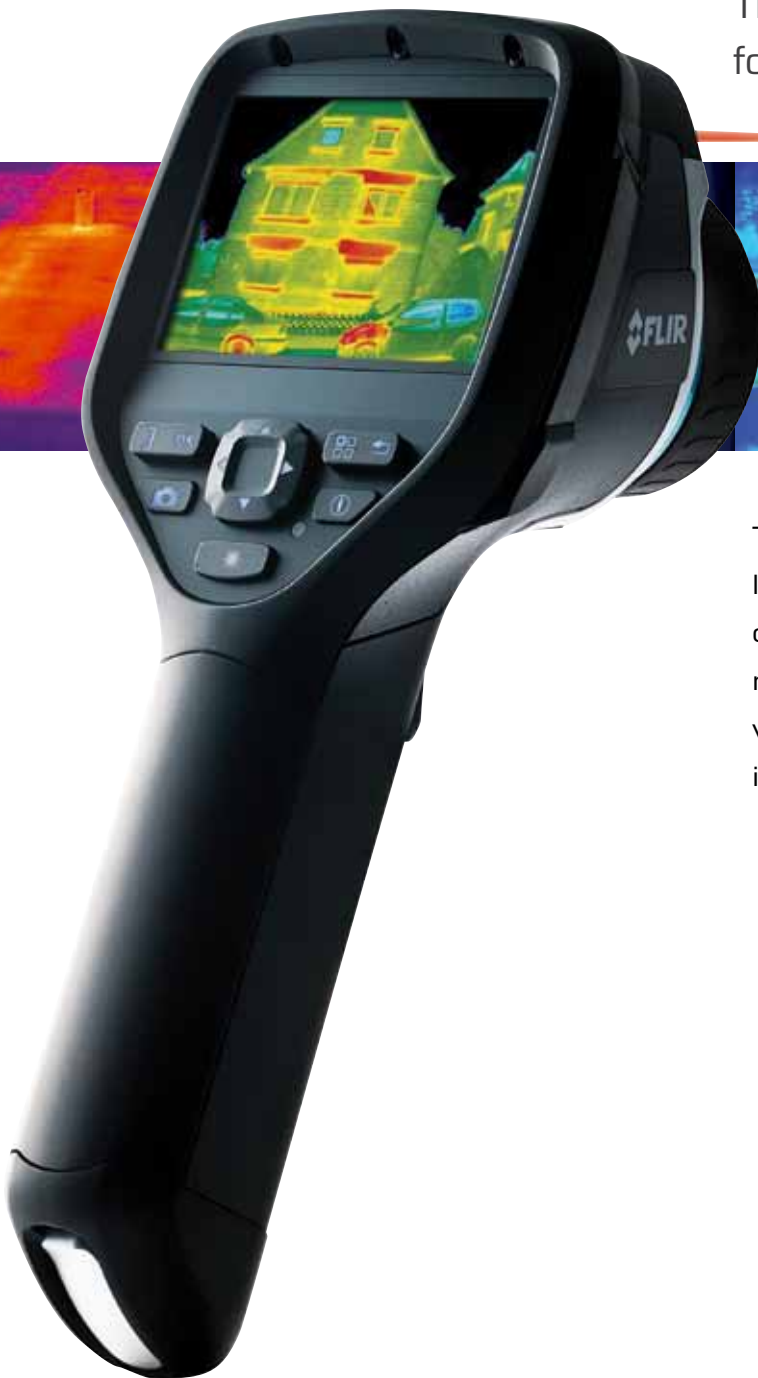











FLIR Ebx-Series

Thermal imaging cameras
for building inspections



The FLIR Ebx-Series are small and lightweight thermal imaging cameras designed for those needing higher resolution and more features and for whom documentation of findings are important.

-  Up to 320x240 pixels
-  High quality visual camera
-  LCD touch screen
-  Built-in LED light
-  Laser Pointer
-  MeterLink™
-  Dew point/Insulation Alarm

FLIR Ebx-Series

Lightweight design
Heavyweight performers

The FLIR Ebx-models have an image quality of up to 320 x 240 pixels and include the features you need to make well informed building decisions like built-in insulation and dew point alarms. The cameras are specifically designed for building inspections such as, HVAC heating and cooling issues, air flow, moisture detection, insulation problems, and much more.



What is MeterLink™?

FLIR MeterLink technology simplifies the work in building inspections by making it possible to transfer, via Bluetooth, the data acquired by a multi function moisture meter into the thermal imaging camera. The MeterLink technology saves time and eliminates the risk of erroneous records or notes.

In building related inspections of water intrusion or tracking of moisture, readings from a MeterLink Extech moisture meter are displayed in the FLIR camera.



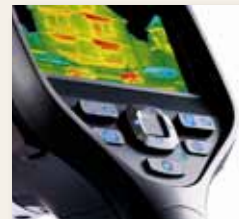
Large and bright LCD

Sharp thermal images and easy-to-read temperature values are presented on the touch screen LCD display.



Laserpointer and LED light

Activate the built in laser pointer and associate the hot spot you see on the LCD with the real target in the field. A LED light assures clear visual images.



Easy-to-use

The Ebx-Series is equipped with an LCD touch screen that allows control of all functions. Easy accessible control buttons are also available.



Wifi

Transfer images wirelessly to a smart phone or tablet PC.



Thermal Fusion

Merges visual and infrared images to offer better analysis.



Picture-in-Picture (PiP)

With the Picture-in-Picture function it is easy to locate and highlight areas of interest.



Instant reports

Create instant reports directly in camera. Easy to copy reports to USB.



Text and voice annotations

Text comments can be made from a pre-defined list or by using the touch screen. A headset can be connected to make voice annotations.



Visual camera

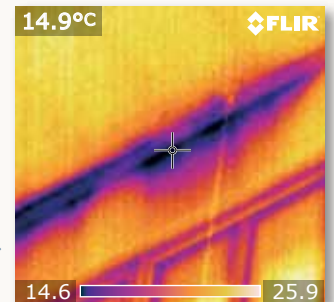
3 Megapixel visible light camera makes observing and inspecting faster and easier.



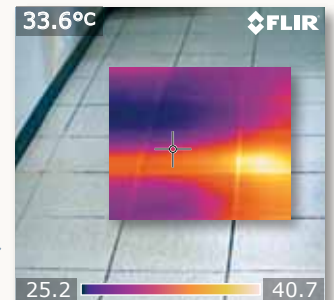
Dew point/Insulation Alarm

The Relative Humidity Alarm alerts you to the areas where there is a risk of condensation. An Insulation Alarm shows the insulation performance of the building structure.

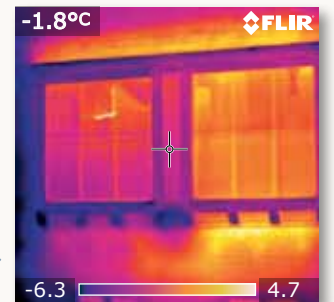
** Features dependant on camera model, please check technical specifications for more details.*



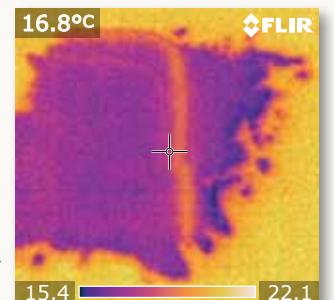
The thermal image shows a badly sealed ceiling causing cold air to leak into the building.



Thanks to the Picture-in-Picture function in the FLIR Ebx-Series it is easy to locate hidden problems. You can measure the surface temperature, find faults and document your findings.



The occupant complained about a cold spot in his living room. The thermogram on the right clearly identifies the source of the cold as an uninsulated part in the wall. By insulating this spot, the occupant improved comfort, saved energy and money.



The thermal image clearly shows moisture in a floor. Something which can not be detected by the naked eye.

Technical specifications

	FLIR E30bx	FLIR E40bx	FLIR E50bx	FLIR E60bx
Imaging Performance				
IR resolution	160 × 120 pixels	160 × 120 pixels	240 × 180 pixels	320 × 240 pixels
Spatial resolution	2.72 mrad	2.72 mrad	1.82 mrad	1.36 mrad
Thermal sensitivity	< 0.1 °C	< 0.045 °C	< 0.045 °C	< 0.045 °C
Zoom	N/A	1-2x continuous digital zoom	1-4x continuous digital zoom	1-4x continuous digital zoom
Image presentation				
Picture in Picture	N/A	IR area on visual image	Scalable IR area on visual image	Scalable IR area on visual image
Thermal Fusion	N/A	N/A	Yes	Yes
Measurement analysis				
Spotmeter	1	3	3	3
Area	1 box with min./max./average	3 boxes with min./max./average	3 boxes with min./max./average	3 boxes with min./max./average
Difference temperature	N/A	Delta temperature between measurement functions or reference temperature	Delta temperature between measurement functions or reference temperature	Delta temperature between measurement functions or reference temperature
Reporting				
Instant report	N/A	N/A	N/A	Yes
Digital camera				
Built-in digital camera	N/A	3.1 Mpixels, and one LED light	3.1 Mpixels, and one LED light	3.1 Mpixels, and one LED light
Image annotations				
Voice	N/A	60 seconds via Bluetooth®	60 seconds via Bluetooth®	60 seconds via Bluetooth®
Text	N/A	Text from predefined list or soft keyboard on touch screen	Text from predefined list or soft keyboard on touch screen	Text from predefined list or soft keyboard on touch screen
External sensors	N/A	Possible to connect, via Bluetooth, Extech Moisture meter MO297 or Extech clamp meter EX845	Possible to connect, via Bluetooth, Extech Moisture meter MO297 or Extech clamp meter EX845	Possible to connect, via Bluetooth, Extech Moisture meter MO297 or Extech clamp meter EX845
Image storage				
Type	IR images	IR/visual images; simultaneous storage of visual and IR images	IR/visual images; simultaneous storage of visual and IR images	IR/visual images; simultaneous storage of visual and IR images
Data communication interfaces				
Bluetooth®, WiFi	N/A	Yes	Yes	Yes

General

Imaging Performance	
FOV / Minimum focus distance	25° × 19° / 0.4 m
Spectral range	7.5–13 µm
Image frequency	60 Hz
Focus	Manual
Focal Plane Array (FPA)	Uncooled microbolometer
Image presentation	
Display	Built-in 3.5" LCD touch screen, 320 × 240 pixels
Image modes	IR image, thumbnail gallery
Measurement	
Object temperature range	-20°C to +120 °C
Accuracy	±2 °C or ±2% of reading
Measurement analysis	
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Emissivity correction	Variable from 0.01 to 1.0 or selected from list of materials
Measurement corrections	Reflected temperature, optics transmission and atmospheric transmission
Humidity alarm	1 humidity alarm including dew point alarm
Insulation alarm	1 insulation alarm
Isotherm	Detect high/low temperature/interval
Set-up	
Image controls	Palettes (Arctic, Gray, Iron, Lava, Rainbow and Rainbow HC), image adjustment (auto/manual)
Set-up controls	Local adaptation of units, language, date and time formats; automatic shutdown , display intensity
Image storage	
Format	Standard JPEG - including measurement data on SD memory card
Laser pointer	
Laser	Position is displayed on the IR image
Power	
Battery type	Lithium-Ion (field replaceable) - 4 hours operating time
Charging system	In camera, AC adaptor, 2-bay charger or 12 V from a vehicle
Power management	Automatic shutdown (user selectable)
AC operation	AC adaptor, 90-260 V AC
Adaptor voltage	12 V output to camera
Environmental specifications	
Operating temperature range	-15 to +50 °C
Storage temperature range	-40 to +70 °C
Humidity	IEC 60068-2-30/24 h 95% relative humidity +25 °C to +40 °C / 2 cycles
Shock / Vibration	25 g (IEC 60068-2-29) / 2 g (IEC 60068-2-6)
Encapsulation	IP 54 (IEC 60529)
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
Physical characteristics	
Camera weight, incl. battery	0.825 kg
Camera size (L × W × H)	246 × 97 × 184 mm
Shipping size	560 × 370 × 190 mm
Shipping weight	5.3 kg
Standard package	
FLIR E30bx, FLIR E40bx, FLIR E50bx or FLIR E60bx: Hard transport case, Thermal imaging camera with lens, Battery, Hand strap, Calibration certificate, FLIR Tools software CD-ROM, Memory card, Lens cap, Power supply incl. multiplugs, Printed Getting Started Guide, Printed Important Information Guide, USB cable, User documentation CD-ROM, Video cable, Warranty extension card or Registration card	

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