



## FLIR E-series bx

The E40bx, E50bx and E60bx, with MSX<sup>®</sup> advanced thermal imaging camera performance

Get more IR inspections done, create professional detailed reports easier, and share images and findings faster with FLIR's E-Series bx thermal imagers. Featuring a fresh array of imaging, communication, and productivity tools to help you take care of more customers.

**FLIR Tools Mobile communication** – Connect an E-Series bx camera to smartphones and tablets with our Wi-Fi app. Stream live video so customers can watch along. Import radiometric JPEGs, adjust levels and color, add measurement tools, then send images off in simple reports via email to get a faster yes for repairs.

**Superior thermal imaging** – Up to 76,800 pixels (320 x 240) for better long-range accuracy and the highest level of point & shoot camera IR resolution.

**MSX thermal image enhancement** – See structural features, numbers, and other key visual details not normally apparent in a regular thermal image with an all-in-one thermal picture that instantly orients you to right where heat issues are.

**Onboard digital camera** – 3.1MP resolution provides clear visible light reference pictures; includes built-in LED lamp that doubles as a flashlight plus a laser pointer to mark locations.

**Large touchscreen with auto-orientation** – The E-Series touchscreen provides an intuitive interface that takes full advantage of the entire 3.5" display for easy access to diagnostics tools – now with auto-orientation to keep measurement and other data overlays upright no matter how you hold the camera.

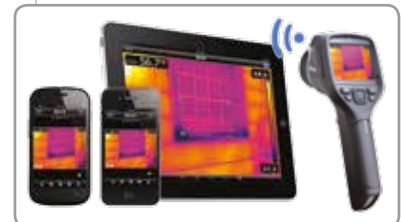
**Picture-in-Picture** – Overlay thermal images onto digital scenes for extra location documentation.

**Multiple measurements** – Add up to 3 box areas and 3 moveable spots using the touchscreen to gather more detailed temperature information

**MeterLink<sup>®</sup>** – Measure more than temperature. Send diagnostics data by Bluetooth from compatible clamp and moisture meters directly to E-Series bx cameras to embed extra information into thermal images as you capture them that further supports findings.

**Interchangeable lenses and manual focus** – Optional wide-angle and telephoto optics let you capture more of a scene in one shot or get in closer to measure smaller, distant targets. Full focus control help you dial in the sharpest clarity and accuracy.

**Greater temperature sensitivity** – See subtler temperature patterns and detail with <0.045°C sensitivity.



FLIR Tools Mobile Wi-Fi connectivity



Large 3.5" touchscreen



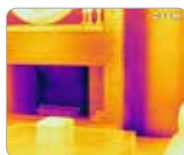
Auto-orientation keeps diagnostics overlays upright



Visible light pictures align with thermal images: 3.1MP digital camera, LED lamp, and laser pointer



Large buttons for easy glove-handed operation

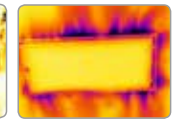
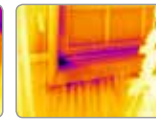
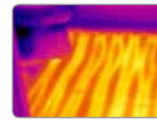
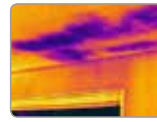
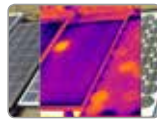
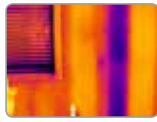


MSX Image enhancement



Bluetooth<sup>®</sup> METERLiNK<sup>®</sup> communication

## Applications



Missing insulation - Solar cell failure - moisture intrusion

Radiant heat tubing - cold draft - air infiltration

## Imaging specifications

FEATURES	FLIR E40bx	FLIR E50bx	FLIR E60bx
Thermal sensitivity (N.E.T.D)	<0.045°C at 30°C	<0.045°C at 30°C	<0.045°C at 30°C
Detector Type - Focal plane array; (FPA) uncooled microbolometer	160 x 120 pixels	240 x 180 pixels	320 x 240 pixels
MSX® Thermal image enhancement	Yes	Yes	Yes
Picture-in-Picture (P-i-P)	Fixed P-i-P	Scalable P-i-P	Scalable P-i-P
MPEG 4 video recording	Yes	Yes	Yes
Video camera w/lamp & laser	3.1MP/LED Lamp/laser pointer	3.1MP/LED lamp/laser pointer	3.1MP/LED lamp/laser pointer
Digital zoom	2X continuous	4X continuous	4X continuous
Image modes	Thermal, image gallery, visual	Thermal, image gallery, visual	Thermal, image gallery, visual
Image annotation	Voice (60s)/text comments	Voice (60s)/text comments	Voice (60s)/text comments
Moveable spot	3 spotmeters	3 spotmeters	3 spotmeters
Area box	3 area boxes (full image with min/max/avg)	3 area boxes (full image with min/max/avg)	3 area boxes (full image with min/max/avg)
Delta T	Yes	Yes	Yes
Data communication interface	USB-mini, USB-A, composite video, Bluetooth, Wi-Fi	USB-mini, USB-A, composite video, Bluetooth, Wi-Fi	USB-mini, USB-A, composite video, Bluetooth, Wi-Fi
<b>COMMON FEATURES</b>			
Temperature range	-20 to 120°C (-4 to 248°F)		
Frame rate	60Hz		
Field of view / focus	25° x 19° / manual (minimum focus distance 0.4m)		
Spectral range	7.5 to 13µm		
Display	Built-in 3.5" color LCD		
Image storage	>1000 radiometric JPEG images (SD card memory)		
Laser classification/type	Class 2/Semiconductor AlGaInP Diode laser: 1mW/635nm (red)		
Set-up controls	Mode selector, color palettes, configure image info, units, language, date and time formats, and image gallery		
Measurement modes	Auto hot/cold spot, Isotherm (above/below/interval), insulation and humidity alarms		
Measurement correction	Reflected ambient temperature & emissivity correction		
Battery type/operating time	Li-Ion/ >4 hours, display shows battery status		
Charging system	In camera AC adapter/2 bay charging system		
Shock/vibration/drop/encapsulation; safety	25G, IEC 60068-2-29/ 2G, IEC 60068-2-6/ Drop-proof 2m (6.6ft) / IP54; EN/UL/CSA/PSE 60950-1		
Dimensions/weight	246x97x184mm/825g, including battery		

## Ordering information

64501-0501 .....FLIR E40bx Bldg. IR camera w/MSX 160 x 120 resolution/60Hz  
 64501-0501-KIT.....FLIR E40bx w/MSX 160 x 120 resolution/60Hz with FLIR Tools +  
 64501-0601 .....FLIR E50bx Bldg. IR camera w/MSX 240 x 180 resolution/60Hz  
 64501-0601-KIT.....FLIR E50bx w/MSX 240 x 180 resolution/60Hz with FLIR Tools +  
 64501-0702 .....FLIR E60bx Bldg. IR camera w/MSX 320 x 240 resolution/60Hz  
 64501-0702-KIT.....FLIR E60bx w/MSX 320 x 240 resolution/60Hz with FLIR Tools +

## ACCESSORIES

1196961 .....IR lens, f = 30 mm, 15° incl. case  
 1196960 .....IR lens, f = 10 mm, 45° incl. case  
 T910814 .....Power supply, incl. multi plugs  
 T911230ACC .....Memory card SDHC 4 GB  
 T1910423 .....USB cable Std A <-> Mini-B  
 T198509 .....Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.  
 1910582ACC .....Video cable  
 T197771ACC .....Bluetooth Headset  
 T198583 .....FLIR Tools+ (license only)  
 T911093 .....Tool belt  
 T198125 .....Battery charger, incl. power supply with multi plugs Exx  
 T198113 .....IR lens, 76 mm (6°) with case and mounting support for Exx  
 T198341 .....Transport case Exx  
 T198487 .....Li-Ion Battery pack 3.7V 17Wh  
 T198484 .....Pouch for FLIR Exx series  
 T198486 .....Tripod Adapter  
 T198485 .....Sun shield



\*After product registration on www.flir.com



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