FLIR E-Series bx

The New E40bx, E50bx and E60bx, Now with MSX® Advanced Thermal Imaging Camera Performance

Get more IR inspections done, create professional detailed reports easier, and share images and findings faster with FLIR's latest 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® – *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
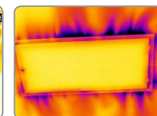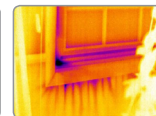
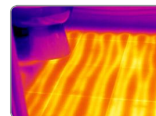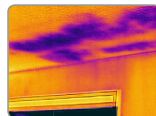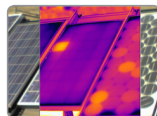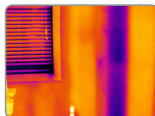Large Buttons for Easy Glove-Handed Operation

MSX Image Enhancement

Bluetooth® METERLiNK® 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
COMMON FEATURES			
Temperature range	-4 to 248°F (-20 to 120°C)		
Frame Rate	60Hz		
Field of view / Focus	25° x 19° / Manual (Minimum focus distance 1.3ft/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	9.7x3.8x7.2" (246x97x184mm)/<1.82lbs (825g), including battery		
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Ordering Information

64501-0501 ....FLIR E40bx Bldg. IR Camera w/MSX 160 x 120 Resolution/60Hz
64501-0501-KIT...............................FLIR E40bx w/MSX 160 x120 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
T197752 .... Li-Ion Rechargeable Battery
T910814....................... AC Adapter Charger (110-240V, U.S. Plug)
1910490 .... Cigarette Lighter Adapter Kit, 12VDC (1.2m cable)
T198125 .... 2-Bay Battery Charger including Power Supply (multi plugs)
T197771 .... Bluetooth® Headset
T197717 .... FLIR Reporter Professional Analysis Software
1196961....................... 15° Telephoto Lens with Case
1196960....................... 45° Wide Angle Lens with Case
T197926 .... Tripod adapter
T127100 .... Sunshield
T911087 .... Pouch
T127648....................... FLIR Tools+ (license only)

5-10-2 Protection

10-Year Detector Protection
5-Year Battery
2-Year Parts & Labor

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