



FLIR E-Series

The E40, E50 and E60, now with MSX®
Advanced thermal imaging camera performance

Troubleshoot more efficiently, create detailed reports easier, and share images and findings faster with FLIR's E-Series thermal imagers. Featuring a fresh array of imaging, communication, and productivity tools to help you get more done in a day.

FLIR Tools Mobile communication – Connect an E-Series camera to smartphones and tablets with our Wi-Fi app. Stream live video so others can watch along. Import radiometric JPEGs, adjust levels, add measurement tools, then send images off in simple reports via email to expedite repair decisions.

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

MSX Thermal Image Enhancement – See numbers, labels 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, and measurement and other data overlays stay 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 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.

Higher temperature range & sensitivity – Measure hotter-running equipment with higher 650°C (1,202°F) detection, and see subtler temperature patterns and detail with E-Series' greater sensitivity.



FLIR Tools Mobile Wi-Fi connectivity



Large 3.5" touchscreen



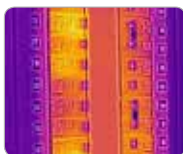
Auto-orientation keeps diagnostics overlays upright



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



Large buttons for easy glove-handed operation

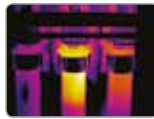


MSX image enhancement



Bluetooth® METERLiNK® communication

Applications



Electrical: hot fuses



Motor: internal winding problem



Motor: bearing problem



Imaging specifications

| FEATURES | FLIR E40 | FLIR E50 | FLIR E60 |
|--|--|--|--|
| Temperature range | -20 to 650°C (-4 to 1202°F) | -20 to 650°C (-4 to 1202°F) | -20 to 650°C (-4 to 1202°F) |
| Thermal sensitivity (N.E.T.D) | <0.07°C at 30°C | <0.05°C at 30°C | <0.05°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 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 | | | |
| 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 modes | Thermal, visual, MSX, and image gallery | | |
| 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) | | |
| 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

64501-0101 FLIR E40 IR Camera w/MSX 160 x 120 Resolution/60Hz
 64501-0101-KIT ... FLIR E40 w/MSX 160 x120 Resolution/60Hz with FLIR Tools +
 64501-0201 FLIR E50 IR Camera w/MSX 240 x 180 Resolution/60Hz
 64501-0201-KIT... FLIR E50 w/MSX 240 x 180 Resolution/60Hz with FLIR Tools +
 64501-0302 FLIR E60 IR Camera w/MSX 320 x 240 Resolution/60Hz
 64501-0302-KIT .. FLIR E60 w/MSX 320 x 240 Resolution/60Hz with FLIR Tools +



* After product registration on www.flir.com

ACCESSORIES

1196961IR lens, f = 30 mm, 15° incl. case
 1196960IR lens, f = 10 mm, 45° incl. case
 T910814Power supply, incl. multi plugs
 T911230ACCMemory card SDHC 4 GB
 1910423USB cable Std A <-> Mini-B
 T198509Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
 1910582ACCVideo cable
 T197771ACCBluetooth Headset
 T198583FLIR Tools+ (license only)
 T911093Tool belt
 T198125Battery charger, incl. power supply with multi plugs Exx
 T198113IR lens, 76 mm (6") with case and mounting support for Exx
 T198341Transport case Exx
 T198487Li-Ion Battery pack 3.7V 17Wh
 T198484Pouch for FLIR Exx series
 T198486Tripod Adapter
 T198485Sun shield



FLIR Commercial Systems
 Luxemburgstraat 2
 2321 Meer
 Belgium
 Tel. : +32 (0) 3665 5100
 Fax : +32 (0) 3303 5624
 E-mail : flir@flir.com

FLIR Systems AB
 Antennvägen 6
 187 66 Täby
 Sweden
 Tel. : +46 (0)8 753 25 00
 E-mail : flir@flir.com

FLIR Systems UK
 2 Kings Hill Avenue - Kings Hill
 West Malling - Kent
 ME19 4AQ
 United Kingdom
 Tel. : +44 (0)1732 220 011
 E-mail : flir@flir.com

FLIR Systems GmbH
 Berner Strasse 81
 D-60437 Frankfurt am Main
 Germany
 Tel. : +49 (0)69 95 00 900
 E-mail : flir@flir.com

FLIR Systems France
 20, bd de Beaubourg
 77183 Croissy-Beaubourg
 France
 Tel. : +33 (0)1 60 37 55 02
 E-mail : flir@flir.com

FLIR Systems Italy
 Via Luciano Manara, 2
 I-20812 Limbiate (MB)
 Italy
 Tel. : +39 (0)2 99 45 10 01
 E-mail : flir@flir.com

FLIR Commercial Systems
 Avenida de Bruselas, 15- 3º
 28108 Alcobendas (Madrid)
 Spain
 Tel. : +34 91 573 48 27
 E-mail : flir@flir.com

FLIR Systems, Middle East FZE
 Dubai Airport Free Zone
 P.O. Box 54262
 Office B-22, Street WB-21
 Dubai - United Arab Emirates
 Tel. : +971 4 299 6898
 E-mail : flir@flir.com

FLIR Systems Russia
 6 bld.1, 1st Kozjevnickesky lane
 115114 Moscow
 Russia
 Tel. : + 7 495 669 70 72
 E-mail : flir@flir.com