ADVANCED THERMAL IMAGING
REIMAGINED FROM THE HANDLE UP

FLIR Exx-Series™
E53 | E75 | E85 | E95
FLIR redesigned the Exx-Series from the handle up to deliver the best performance, resolution, and sensitivity of any pistol-grip handheld thermal camera. The new Exx-Series camera is packed with the features you need to detect the early signs of water intrusion, air leaks, and other building deficiencies before they cause serious damage.

FLIR Exx-Series cameras now offer:
- Up to 161,472 points of measurement
- UltraMax® processing for 4x pixel resolution*
- Our best MSX® enhancement
- Laser distance meter improves autofocus, provides distance and on-screen area measurement‡
- A larger, 4” display that’s 33% brighter
- A responsive new interface
- Improved organization and reporting options

*Not available for E53 model
‡ E85/E95 only
The Exx-Series is packed with the high performance features you need to quickly detect and report hidden building deficiencies: superior temperature sensitivity; bright, bold on-screen imagery; razor-sharp focus; and a rapid-response user interface.

See Greater Detail
- Vibrant LCD is 33% brighter than earlier models
- Large 4” display with 160° viewing angle
- Up to 640 x 480 true thermal IR resolution
- Improved FLIR MSX® image enhancement

Focus Fast & True
- Laser-assisted autofocus improves accuracy for precise temperature measurements
- Continuous focus mode responds quickly, promotes safe one-hand use
- Autofocus and record functions separated to prevent accidental re-focusing

Quickly Discover Building Deficiencies
- Detects temperature differences down to 30 mK
- True 42° FOV for wide area surveys with a single lens*
- Measure area (m² or ft²) of moisture intrusion or air leak on-screen‡

Navigate Screens Easier
- Quick response capacitive touchscreen
- Updated GUI with improved flow and feedback
- Logical navigation on screen and in menus

Document & Report Problems
- Embed moisture meter data through METERLiNK®
- Upload images and report critical issues over Wi-Fi
- Image annotation through voice, text, on-screen sketch, GPS tagging, and compass
- Enhanced image analysis and reporting through FLIR Tools+ software

UNPARALLELED PERFORMANCE

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Ergonomic new design for our most comfortable grip

Separate Autofocus and Image Recording buttons*

This sleek new design isn’t just window dressing. From the rubberized, water-tight chassis to the scratch-resistant Dragontrail™ cover glass LCD, the new Exx-Series is made to work hard all day long.

Li-ion battery for extended use times

Vibrant, 4” optically-bonded PCAP touchscreen

Bright LED work lights improve image clarity in dim areas

5 MP digital sensors now closer to thermal detector for superior MSX® enhancements

True 42° FOV for wide area surveys with a single lens*
Work Safer
Your job can take you up ladders and into crawl-spaces, so you need tools that can be used one-handed and worry-free. FLIR designed its new Exx-Series cameras to be tough enough to use every day, with simplified buttons and intuitive screens that allow you to focus on your work – instead of on the camera controls.

The Best Lenses Need the Best Autofocus*
FLIR took its cue from the digital camera industry when re-engineering the Exx-Series focus system. Whether you choose autofocus or continuous focus, the camera’s precise laser-assisted focus and FLIR’s innovative lenses ensure you get crisp results, for the most accurate temperature readings.

Work Smarter
The new Exx-Series cameras produce standard radiometric JPEGs that can be opened and viewed without proprietary software. Image files produced by Exx-Series cameras are supported by FLIR’s Software Development Kit (ATLAS SDK), so companies can use their own software and still support read-out of thermal measurements, METERLINK® data, and other important parameters embedded within the image. Current and voltage measurements embedded in image files are also accessible.

*E75, E85, E95 only
**TECHNICAL SPECIFICATIONS**

**The Infrared Training Center**

The greater your knowledge about thermal imaging, the greater the dividends you'll realize for your company and your career. That's why the Infrared Training Center (ITC) offers classes for practically every application, from free online courses to advanced training that can certify you as a thermography expert, qualifying you to take a leadership role in your internal IR program.

Thermography Certification Training

Leverage certified and known how to thermal imaging works and how to use it. ITC offers a complete and comprehensive list of courses, providing everything you need to take your skills to the next level. ITC offers basic thermography training to advanced certification programs, allowing you to take your skills to the next level. ITC offers basic thermography training to advanced certification programs, allowing you to take your skills to the next level. ITC offers basic thermography training to advanced certification programs, allowing you to take your skills to the next level.

Exx-Series cameras are backed by FLIR's industry-leading warranty

2 years: Full protection, parts, labor
5 years: Battery
10 years: Detector

**FLIR Exx-Series**

**Box Contents**

- Infrared camera with lens, battery (2 ea), battery charger, front protection, straps (hand, wrist), hard transport case, lanyards, lens caps, lens cleaning cloth, power supplies, 8 GB SD card, Torx wrench, cables (USB 2.0 A to USB Type-C, USB Type-C to USB Type-C, USB Type-C to HDMI)

- Communication Interfaces
  - USB 2.0, Bluetooth, Wi-Fi, DisplayPort

- Video Out
  - DisplayPort over USB Type-C

- Streaming
  - Non-Radiometric IR Video
  - Radiometric IR Video
  - Video Recording and Streaming
  - Non-Radiometric IR or Visual Video

- Battery Type
  - Li-ion battery, charged in camera or on separate charger

- **Image Storage**

- **Image Modes**
  - Infrared, visual, MSX®, Picture-in-Picture

- **Color Palettes**
  - Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC

- **Image Frequency**
  - 30 Hz

- **Spectral Range**
  - 7.5 – 14.0 µm

- **Thermal Sensitivity/NETD**
  - <0.04°C @ 30°C (86°F), 24° lens

- **Detector Type and Pitch**
  - Uncooled microbolometer, 17 µm

- **Common Features**

- **METERLiNK®**
  - Yes; several readings

- **Color Alarm (Isotherm)**
  - Above/below/interval/condensation/insulation

- **Alarms**
  - Moisture alarm, insulation alarm, measurement alarms

<table>
<thead>
<tr>
<th>Features by Camera</th>
<th>E63</th>
<th>E70</th>
<th>E80</th>
<th>E90</th>
</tr>
</thead>
<tbody>
<tr>
<td>IR Resolution</td>
<td>240 × 180</td>
<td>442,368 pixels</td>
<td>645,888 pixels</td>
<td>76,800 pixels</td>
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<tr>
<td>Laser Area Measurement</td>
<td>—</td>
<td>Yes</td>
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<tr>
<td>Time-lapse (Infrared)</td>
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<td>—</td>
<td>—</td>
<td>10 sec to 24 hours</td>
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<tr>
<td>Laser Distance Measurement</td>
<td>—</td>
<td>Yes, on-screen</td>
<td>Yes, on-screen</td>
<td>Yes, on-screen</td>
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<tr>
<td>Measurement Presets</td>
<td>No measurement,</td>
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