The FLIR E75, E85, E95, and the entry-level E53 Advanced Thermal Imaging Cameras offer the superior resolution and range performance needed to quickly identify hot spots and discover potential points of failure in electrical distribution and mechanical systems. With up to 161,472 pixels resolution and a more vibrant LCD screen than any other pistol-grip camera, the Exx-Series makes it easier than ever to diagnose problems—even at a distance. Avoid costly shutdowns and lost production time through regular predictive maintenance routines with these rugged, intuitive cameras.

www.flir.com/Exx-Series
**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Features By Camera</th>
<th>E53</th>
<th>E75</th>
<th>E85</th>
<th>E95</th>
</tr>
</thead>
<tbody>
<tr>
<td>IR Resolution</td>
<td>240 × 180 (43,200 pixels)</td>
<td>320 × 240 (76,800 pixels)</td>
<td>384 × 288 (110,592 pixels)</td>
<td>464 × 348 (181,472 pixels)</td>
</tr>
<tr>
<td>UltraMax®</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Object Temperature Range</td>
<td>-20°C to 120°C (-4°F to 248°F)</td>
<td>0°C to 650°C (32°F to 1200°F)</td>
<td>0°C to 120°C (4°F to 248°F)</td>
<td>0°C to 120°C (4°F to 248°F)</td>
</tr>
<tr>
<td>Focus</td>
<td>Manual</td>
<td>Continuous, one-shot laser distance meter (LDM), one-shot contrast, manual</td>
<td>Continuous, one-shot laser distance meter (LDM), one-shot contrast, manual</td>
<td>Continuous, one-shot laser distance meter (LDM), one-shot contrast, manual</td>
</tr>
<tr>
<td>Field of View (FOV)</td>
<td>24° × 18&quot;</td>
<td>42° × 32° (10 mm lens), 24° × 18&quot; (16 mm lens), 14° × 10&quot; (29 mm lens)</td>
<td>42° × 32&quot; (10 mm lens), 24° × 18&quot; (16 mm lens), 14° × 10&quot; (29 mm lens)</td>
<td>42° × 32&quot; (10 mm lens), 24° × 18&quot; (16 mm lens), 14° × 10&quot; (29 mm lens)</td>
</tr>
<tr>
<td>Time-lapse (Infrared)</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Laser Area Measurement</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Laser Distance Measurement</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Measurement Presets</td>
<td>No measurement, center spot, hot spot, cold spot, 3 spots, hot-spot*</td>
<td>No measurement, center spot, hot spot, cold spot, User Preset 1, User Preset 2</td>
<td>No measurement, center spot, hot spot, cold spot, User Preset 1, User Preset 2</td>
<td>No measurement, center spot, hot spot, cold spot, User Preset 1, User Preset 2</td>
</tr>
<tr>
<td>Spotmeter</td>
<td>3 in live mode</td>
<td>3 in live mode</td>
<td>3 in live mode</td>
<td>3 in live mode</td>
</tr>
<tr>
<td>Area</td>
<td>1 in live mode</td>
<td>1 in live mode</td>
<td>1 in live mode</td>
<td>1 in live mode</td>
</tr>
<tr>
<td>Picture-in-Picture</td>
<td>Centered infrared area on the visual image</td>
<td>Resizable and movable</td>
<td>Resizable and movable</td>
<td>Resizable and movable</td>
</tr>
</tbody>
</table>

**Common Features**

- Detector Type and Pitch: Uncooled microbolometer, 17 µm
- Thermal Sensitivity/NETD: -0.04°C @ 30°C (86°F), 24° lens
- Spectral Range: 7.5 - 14.0 µm
- Image Frequency: 30 Hz
- F-Number: f/1.3
- Lens Identification: Automatic
- Digital Zoom: 1-4x continuous

**Image Presentation and Modes**

- Display: 4", 640 × 480 pixel touch screen LCD with auto-rotation
- Digital Camera: 5 MP, 53° × 41° FOV
- Color Palettes: Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
- Image Modes: Infrared, visual, MSX®, Picture-in-Picture
- MSX®: Embosses visual details on full resolution thermal image

**Measurement and Analysis**

- Accuracy: ±2°C (±3.6°F) or ±2% of reading for ambient temperature 15°C to 35°C (59°F to 95°F) and object temperature above 0°C (32°F)
- Alarms: Moisture, insulation, and measurement
- Color Alarm (Isotherm): Above/below/interval/condensation/insulation
- Compass, GPS: Yes; automatic GPS image tagging
- METERLiNK®: Yes; several readings
- Laser Pointer: Yes; dedicated button

**Image Storage**

- Storage Media: Removable SD card (8 GB)
- Image File Format: Standard JPEG with measurement data included

**Video Recording and Streaming**

- Radiometric IR Video Recording: H.264 to memory card
- Non-Radiometric IR or Visual Video: Yes, over UVC or Wi-Fi
- Radiometric IR Video Streaming: H.264 or MPEG-4 over Wi-Fi; MJPEG over UVC or Wi-Fi
- Non-Radiometric IR Video Streaming: Communication Interfaces
- Video Out: USB 2.0, Bluetooth, Wi-Fi, DisplayPort
- DisplayPort over USB Type-C

**Additional Data**

- Battery Type: Li-ion battery, charged in camera or on separate charger
- Battery/Operating Time: Approx. 2.5 hours at 25°C (77°F) ambient temperature and typical use
- Operating Temperature Range: -15°C to 50°C (5°F to 122°F)
- Storage Temperature Range: -40°C to 70°C (-40°F to 158°F)
- Shock/Vibration/Encapsulation/Safety: 25 g / IEC 60068-2-27, 2 g / IEC 60068-2-6, IP 54 / IEC 60529; EN/UL/CSA/PSE 60950-1
- Weight/Dimension: 1 kg (2.2 lbs), 27.8 × 11.6 × 11.3 cm (11.0 × 4.6 × 4.4 in)

**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)

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*Hot spot to center spot Delta measurement

Specifications are subject to change without notice. For the most up-to-date specs, go to www.flir.com

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