



FLIR Exx-SERIES

ADVANCED THERMAL IMAGING CAMERAS

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SPECIFICATIONS

| Model | E52 | E54 | E76 | E86 | E96 |
|---|--|--|--|--|------------------|
| IR resolution | 240 × 180 pixels | 320 × 240 pixels | 320 × 240 pixels | 464 × 348 pixels | 640 × 480 pixels |
| Resolution with UltraMax® | — | | 307,200 pixels | 645,888 pixels | 1.2 megapixels |
| MSX® image enhancement | Yes: details from visual camera add depth and perspective | | | | |
| Built-in visual camera | 5 MP, fixed focus, with built in LED light | | | | |
| Thermal sensitivity | <50 mK @ 30°C (86°F) | <40 mK @ 30°C (86°F) | <30 mK @ 30°C (86°F), 42° lens | | |
| Temperature range | -20°C to 120°C (-4°F to 248°F); 0°C to 550°C (32°F to 1202°F) | -20°C to 120°C (-4°F to 248°F); 0°C to 650°C (32°F to 1202°F) | -20°C to 120°C (-4°F to 248°F); 0°C to 650°C (32°F to 1202°F) | -20°C to 120°C (-4°F to 248°F); 0°C to 650°C (32°F to 1202°F); 300°C to 1500°C (572°F to 2732°F) | |
| Optional temperature range | — | | 300°C to 1000°C (572°F to 1832°F) | — | — |
| Accuracy | ±2°C (±3.6°F) or ±2% of the reading | | | | |
| Focus modes | Manual | | Continuous laser distance meter (LDM), one-shot LDM, one-shot contrast, manual | | |
| Digital zoom | 1–4x continuous | | | | 1–8x continuous |
| Measurement tools | 3 spotmeters in live mode, 1 area meter in live mode | | 3 spotmeters in live mode, 3 area meters in live mode | | |
| Measurement presets | None, center spot, hot spot, cold spot | | None, center spot, hot spot, cold spot | | |
| | 3 spots, Hot Spot-spot | | User Presets 1&2 | | |
| Available lenses | None (fixed lens) | | FLIR AutoCal™ 14°, 24°, 42°, macro (2x) | | |
| 1-Touch Level/Span | Yes: automatic contrast enhancement | | | | |
| Laser pointer | Yes | | | | |
| Area measurement information | — | | — | Yes | |
| On-camera routing software | FLIR Inspection Route™ — enabled | | | | |
| On-camera report building | Voice annotation and GPS tagging to images and video; on-screen text; sketch on infrared images from touchscreen | | | | |
| FLIR software integration | FLIR Thermal Studio Suite, FLIR Research Studio | | | | |
| Radiometric JPEG | Yes | | | | |
| IR, radiometric, visual video recording | Yes | | | | |
| IR, radiometric, visual video streaming | Yes, over UVC (radiometric, non-radiometric, visual) and Wi-Fi (non-radiometric, visual) | | | | |
| Communication modes | USB 2.0, Bluetooth®, Wi-Fi, DisplayPort | | | | |
| Cloud services | FLIR Ignite™ for direct, secure image uploading, organizing, and sharing via Wi-Fi | | | | |
| METERLiNK® | Yes via Bluetooth | | | | |
| Display | 640 × 480 pixels (VGA) Dragontrail® touchscreen | | | | |
| Drop-testing | 2 m (6.6 ft) | | | | |
| Battery operation time | >2.5 hours, typical use | | | | |

*Hot spot to center spot Delta measurement

Specifications are subject to change. For the most up-to-date specifications, please visit teledyneflir.com.

FLIR AUTOCAL™ LENSES

FLIR E76, E86, and E96 camera are compatible with all our interchangeable AutoCal lenses. The camera automatically recognizes when a new lens is attached and launches a wizard to begin auto-calibrating the camera with the lens—no need to send the camera in for service. This helps ensure the camera always produces high-quality images and precise thermal measurements.

WHAT LENS DO YOU NEED?

14°, 29 mm lens: this telephoto lens has a narrow field of view for precise focus and crisp imaging of distant targets.

24°, 17 mm lens: often considered the “standard” lens, the 24° × 18° field of view allows users to remain a safe distance from energized equipment (e.g. 3 m/6.6 ft) while still obtaining a crisp focus on smaller targets.

42°, 10 mm lens: this wide-angle lens captures the largest field of view for imaging buildings, roofs, or other areas where it’s important to gather the most information in a single image.

THE Exx-SERIES and FLIR THERMAL STUDIO PRO

EMPOWERED WITH REPORTING SOLUTIONS TO STREAMLINE INSPECTIONS

Exx-Series cameras now come with our exclusive Inspection Route option already enabled. Combined with FLIR reporting, plug-in, and cloud options, this is thermal imaging logistics at its best.

If you regularly check the condition of a lot of equipment and components over the course of a day, FLIR Inspection Route can make your life much easier. Let your camera lead you to predefined inspection points, and collect images and data in a more structured, logical workflow.

Build your roadmap in FLIR Thermal Studio Pro software with the Route Creator plugin. Include as many inspection targets as needed and organize them for maximum efficiency. Once you export the route plan to the Exx camera, you’ll be ready to go.

The predefined route guides your on-site movement to each inspection asset, automatically collecting and organizing saved images. Store them securely and keep everything in order by uploading automatically to FLIR Ignite cloud. Access images and data easily from the cloud, share them with colleagues and clients, and import findings seamlessly into FLIR Thermal Studio Pro.

By ensuring that nothing is missed and that all inspection results are organized right from the start, FLIR inspection software and firmware speeds up surveys, improves organization, and simplifies reporting for more effective and efficient critical decision-making.

Learn more about [FLIR Thermal Studio Pro](#), the [FLIR Route Creator Plug-in](#), and the [FLIR Inspection Route](#) at www.teledyneflir.com.

