

Product Datasheet - Technical Specifications



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FLIR Exx-SERIES

ADVANCED THERMAL IMAGING CAMERAS

SPECIFICATIONS

| Model | E52 | E54 |
|---|--|--|
| IR resolution | 240 × 180 pixels | 320 × 240 pixels |
| Resolution with UltraMax® | — | — |
| 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) |
| 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) |
| Optional temperature range | — | |
| Accuracy | ±2°C (±3.6°F) or ±2% of the reading | |
| Focus modes | Manual | |
| Digital zoom | 1–4x continuous | |
| Measurement tools | 3 spotmeters in live mode, 1 area meter in live mode | |
| Measurement presets | None, center spot, hot spot, cold spot 3 spots, Hot Spot-spot | |
| Available lenses | None (fixed lens) | |
| 1-Touch Level/Span | Yes: automatic contrast enhancement | |
| Laser pointer | Yes | |
| Area measurement information | — | |
| 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 | |

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

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.

