# TELEDYNE FLIR

# FLIR Exx- SERIES

## ADVANCED THERMAL IMAGING CAMERAS

## SPECIFICATIONS

| Model | E54 | E76 | E86 | E96 |
|---|---|---|---|---|
| IR resolution | 320 × 240 pixels | 320 × 240 pixels | 464 × 348 pixels | 640 × 480 pixels |
| Resolution with UltraMax * enhancement | — | 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 | <40 mK @ 30°C (86°F) | <30 mK @ 30°C (86°F), 42°lens | <30 mK @ 30°C (86°F), 42°lens | <30 mK @ 30°C (86°F), 42°lens |
| Temperature range | -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) | -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, 3 spots, hot spot-spot* | None, center spot, hot spot, cold spot, User Presets 1&2 | | |
| Available lenses | None (fixed lens) | 14°, 24°, 42°, macro (2x) | | |
| Lens identification | — | Automatic (FLIR AutoCal ™ ) | | |
| 1-Touch Level/Span | Yes: automatic contrast enhancement | | | |
| Laser pointer | Yes | | | |
| Laser distance meter | — | 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 (firmware update required for models purchased prior to 2022) | | | |
| 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.