# FLIR Kxx-SERIES

## THERMAL IMAGING CAMERAS FOR FIREFIGHTERS

ENHANCED IMAGE QUALITY
*2024 VERSION*

In the heat of the battle, thermal imaging cameras (TIC) are indispensable. These vital tools help you see through smoke and monitor the fire's spread, so you can quickly visualize your plan of attack, locate hot spots, and save lives.

FLIR Kxx-Series now have even better image quality and sharpness, significantly noticed in low contrast scenes. This means firefighters can improve their situational awareness and depth perception, and easily navigate through smoky buildings for a successful search and rescue.

## SEE THE DIFFERENCE

*Thermal from original Kxx-Series model vs. thermal from 2024 enhanced Kxx-Series model*

### SEE CLEARLY IN SMOKY CONDITIONS

With up to 320 × 240 thermal resolution, enhanced image quality in high gain mode, and proprietary FSX® Flexible Scene Enhancement technology, Kxx-Series TICs produce ultra-sharp, fine-textured images that show subtle details. With FLIR TICs, first responders can quickly and confidently find their way through the darkest environments, even in low-contrast scenes, and identify targets in extreme temperature settings.

### IMPROVE TACTICAL DECISION-MAKING

Providing high-quality imaging and clear visual information, firefighters can make better decisions when seconds count. Store thermal images and video clips on the camera, where they can be accessed for on-scene review or to produce scene incident reports.*

### COMPACT, RUGGED, EASY TO USE

We designed our line of TICs to withstand the toughest firefighting conditions, whether it's a two-meter drop, heavy water spray, or blazing hot temperatures. The Kxx-Series offers affordability without sacrificing the reliability, clarity, or performance that first responders expect from FLIR. The glove-friendly, large-button design makes operation simple and straightforward.

*Featured on select Kxx models only

flir.com/k-series

# SPECIFICATIONS

| Product name | K33 | K45 | K53 | K55 | K65 |
|---|---|---|---|---|---|
| **Imaging and Optical Data** | | | | | |
| IR resolution | 240 × 180 | | 320 × 240 (76,800 pixels) | | |
| Thermal sensitivity/NETD | <40 mK @ 30°C (86°F) | | <30 mK @ 30°C (86°F) | | |
| Field of view (FOV) | 51° × 38° | | | | |
| Image frequency | 60 Hz | | | | |
| Detector type | Focal plane array (FPA), uncooled microbolometer | | | | |
| Spectral range | 7.5 - 13.5 µm | | | | |
| Pitch | 25 µm | | | | |
| **Image Presentation** | | | | | |
| Display | 4-inch LCD, 320 × 240 pixels, backlit | | | | |
| Auto range | Yes, selectable on/off using FLIR K-series camera configurator | | | | |
| Contrast optimization | Digital image enhancement using FSX | | | | |
| Image modes | Basic mode | Basic<br>Black and white<br>Fire<br>Search and rescue<br>Heat detection | Basic mode | Basic<br>Black and white<br>Fire<br>Search and rescue<br>Heat detection | TI Basic NFPA<br>Black and white<br>TI Basic PLUS NFPA<br>Search and rescue<br>Heat detection |
| **Measurement** | | | | | |
| Object temperature range | -20°C to 150°C (-4°F to 302°F), 0°C to 650°C (32°F to 1202°F) | | | | |
| Accuracy | ±4°C (±7.2°F) or ±4% of reading, for ambient temperature 10°C to 35°C (50°F to 95°F) | | | | |
| **Video and Images** | | | | | |
| Storage media | — | Internal flash memory | | | |
| Non-radiometric IR video recording | — | — | MPEG-4 to internal flash memory | | |
| Storage capacity | — | Up to 200 images | 200 files in total, with a maximum duration of 5 minutes each.<br>The total number of files is co-dependent on the number of saved images. | | |
| Non-radiometric IR video streaming | Uncompressed colorized video using USB | | | | |
| USB | USB Mini-B | | | | |
| **Data Communication Interfaces** | | | | | |
| Interfaces | Update from PC devices<br>Data transfer to and from PC | | | | |
| **General** | | | | | |
| Battery | 3.6V / 4.4Ah Li-ion, approximately 4-hour operating time | | | | |
| Charging system | 2-bay charger<br>Optional In-truck charger | | | | |
| Charging time | 2 h to 85% capacity, charging status indicated by LEDs | | | | |
| Start-up time | <17 s. (IR image, no GUI) | | | | |
| Camera weight, including battery | 1.1 ±0.05 kg (2.4 ±0.1 lb) | | | | |
| Camera size (L × W × H) | 120 mm × 125 mm × 280 mm (4.7 in × 4.9 in × 11 in) | | | | |
| Tripod mounting | UNC ¼"-20 (adapter needed) | | | | |
| Operating temperature range | -20°C to 60°C: (-4°F to 140°F)<br>150°C (302°F): 15 min.<br>260°C (500°F): 5 min. | | | | |
| Storage temperature range | -40°C to 85°C (-40°F to 185°F) | | | | |
| Compliance | — | | | | NFPA 1801, 2021 edition<br>Ex-certified according to ANSI/UL 121201-2017 and meets Class I Division 2 Groups C and D, Class II Division 2 Groups F and G, Temperature CodeT4/T135°C |
| Magnetic fields | EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment) | | | | |
| Encapsulation | IP 67 (IEC 60529) | | | | |
| Shock and vibration | 25 g (IEC 60068-2-27), 2 g (IEC 60068-2-6) | | | | |
| Drop | 2 m (6.6 ft.) on concrete floor (IEC 60068-2-31) | | | | |
| **Shipping Information** | | | | | |
| List of contents | Infrared camera, battery (2 each), battery charger, carabiner strap, hard transport case, power supply, printed documentation, retractable lanyard (16 N, 58 oz), USB cable. Optional truck charger available. | | | | Infrared camera, battery (2 each), battery charger, carabiner strap, hard transport case, power supply, printed documentation, retractable lanyard (16 N, 58 oz), USB cable, torx screwdriver (T20). Optional truck charger available. |

For the most up-to-date specifications, please visit teledyneflir.com.

www.teledyneflir.com