



## Key Features

- High-resolution of up to 640 × 480 thermal imaging providing premium image quality for precise target identification and enhanced situational awareness from the first alarm to the last fire out.
- Seamless single-range interface ensures uninterrupted focus with a simplified live image display and minimal menu interaction.
- Integrated wireless connectivity enables streamlined configuration, live streaming, and efficient media handling for mission support and training.

## Main Applications

- Engineered for frontline firefighting with rugged IP67-rated construction, 2-meter drop resistance, and outstanding high-heat performance.
- Supports training and post-incident review through intuitive media extraction and wireless streaming for real-time feedback and analysis.
- Optimized for reliable thermal visibility in low-light and smoke-obscured environments.

[www.flir.com/Kxx-Series](http://www.flir.com/Kxx-Series)

## Specifications

| Model                     | Flir K75                                         | Flir K85  |
|---------------------------|--------------------------------------------------|-----------|
| Imaging and optical data  |                                                  |           |
| IR resolution             | 320 × 240                                        | 640 × 480 |
| Thermal sensitivity, NETD | <60 mK                                           |           |
| Field of view             | 53° × 40°                                        |           |
| Image frequency           | 30 Hz                                            |           |
| Spectral range            | 7.5 to 14 μm                                     |           |
| Pixel pitch               | 12 μm                                            |           |
| Detector type             | Focal plane array (FPA), uncooled microbolometer |           |
| Image representation      |                                                  |           |
| Display                   | 4" LCD, 640 × 480, backlit                       |           |
| Display frame rate        | 60 Hz                                            |           |
| Temperature range         | Single range                                     |           |

| Model                    | Flir K75                                                                             | Flir K85 |
|--------------------------|--------------------------------------------------------------------------------------|----------|
| Contrast optimization    | Digital enhancement, Flexible Scene Enhancement (FSX®)                               |          |
| Image modes              | Basic, Search, Detection, High Heat, White Hot                                       |          |
| Zoom                     | 2x digital zoom                                                                      |          |
| Measurement              |                                                                                      |          |
| Object temperature range | Single range solution operating: -20°C to 650°C (-4°F to 1202°F)                     |          |
| Accuracy                 | ±4°C (±7.2°F) or ±6% of reading, for ambient temperature 10°C to 35°C (50°F to 95°F) |          |
| Video and images         |                                                                                      |          |
| Storage media            | Internal flash memory                                                                |          |
| Image storage formats    | Standard JPEG                                                                        |          |
| Media gallery            | Camera and Flir Responder app                                                        |          |

Specifications subject to change. For the most up-to-date specifications, visit [flir.com](http://flir.com).

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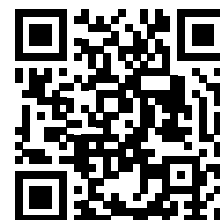
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## Specifications, cont.

| Model                               | Flir K75                                                                                                                                                         | Flir K85 |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Image storage capacity              | 200 files in total (N.B. The total number of files varies dependent on the number of saved video clips)                                                          |          |
| Non-radiometric IR video recording  | MPEG4 to internal flash memory                                                                                                                                   |          |
| Non-radiometrics IR video streaming | Uncompressed colorized video using USB and MPEG-4 Stream over Wi-Fi to Flir Responder app                                                                        |          |
| Data communication interfaces       |                                                                                                                                                                  |          |
| Interfaces                          | Update via OTA (Wi-Fi using the Flir Responder app)<br>Legacy support for updates from PC and data transfer to and from PC                                       |          |
| USB                                 | USB-C                                                                                                                                                            |          |
| Wi-Fi                               | IEEE 802.11 b/g/n (2.4 GHz)                                                                                                                                      |          |
| Bluetooth®                          | Bluetooth v. 5.0 EDR + BLE<br>*PAN                                                                                                                               |          |
| Power system                        |                                                                                                                                                                  |          |
| Battery type                        | Li-Ion                                                                                                                                                           |          |
| Battery voltage                     | 3.7 V                                                                                                                                                            |          |
| Battery capacity                    | 5.8 Ah, at 20°C to 25°C (68°F to 77°F)                                                                                                                           |          |
| Battery operating time              | Approx. 4 hours @ 25°C (77°F) ambient temperature and typical use                                                                                                |          |
| Charging system                     | Desktop 2-bay charger<br>Optional in-truck charger                                                                                                               |          |
| Charging time                       | <3 h to capacity enough for 3 h operation                                                                                                                        |          |
| Charging temperature                | 0°C to 45°C (32°F to 113°F)                                                                                                                                      |          |
| Power management                    | For documents like MSDS and UN38.3 test reports/summaries, see:<br><a href="https://support.flir.com/resources/msds">https://support.flir.com/resources/msds</a> |          |
| Power options                       | Automatic shutdown and sleep mode                                                                                                                                |          |
| Environmental data                  |                                                                                                                                                                  |          |
| 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)                                                                                                                                   |          |
| Humidity (operating and storage)    | IEC 60068-2-30/24 h 95                                                                                                                                           |          |
| Relative humidity                   | 95% relative humidity 25°C to 40°C (77°F to 104°F) non-condensing                                                                                                |          |

| Model                 | Flir K75                                                                                                                                                                                                                                                                              | Flir K85   |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| EMC                   | EN 301 489-1 RED<br>EN 301 489-17<br>EN 55032 Class B (Emission)<br>EN 55035 (Immunity)<br>EN 61000-6-2 Immunity according to Industrial<br>EN 61000-6-3 380-480MHz<br>EN 61000-6-3 800-960MHz<br>EN 60945 Maritime equipment<br>FCC 47 CFR part 15 B, class B (Emission)<br>ICES-003 |            |
| Magnetic fields       | EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)                                                                                                                                                                                                      |            |
| Radio spectrum        | ETSI EN 300 328<br>ETSI EN 301 893<br>FCC 47 CFR part 15<br>RSS-247                                                                                                                                                                                                                   |            |
| Encapsulation         | IP67 (IEC 60529)                                                                                                                                                                                                                                                                      |            |
| Shock                 | 25 g (IEC 60068-2-27)                                                                                                                                                                                                                                                                 |            |
| Vibration             | 2 g (IEC 60068-2-6)                                                                                                                                                                                                                                                                   |            |
| Drop                  | 2 m (6.6 ft) on concrete floor (IEC 60068-2-31)                                                                                                                                                                                                                                       |            |
| Safety (power supply) | CE/EN/UL/CSA/PSE 60950-1<br>IEC 62368                                                                                                                                                                                                                                                 |            |
| Physical data         |                                                                                                                                                                                                                                                                                       |            |
| What's included?      | Infrared camera<br>Battery (2 ea.)<br>Battery charger<br>Carabiner strap<br>Power supply<br>Printed documentation<br>Retractable lanyard, 16 N (58 oz)<br>USB cable                                                                                                                   |            |
| Ordering information  |                                                                                                                                                                                                                                                                                       |            |
| P/N                   | 18701-0101                                                                                                                                                                                                                                                                            | 18702-0201 |

Scan below to learn more about Flir Kxx-Series



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