Flir Kxx-Series

Firefighting Thermal Imaging Cameras

www.flir.com/kxx-series



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 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.

Specifications

Model	Flir K75	Flir K85
Imaging and optical data		
IR resolution	320 × 240	640 × 480
Thermal sensitivity, NETD	<70 mK @ 30°C (86°F) over entire range	
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	
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)	

Model	Flir K75	Flir K85
Video and images		
Storage media	Internal flash memory	
Image storage formats	Standard JPEG	
Media gallery	Camera and Flir Responder app	
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) 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 *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)	

For technical or sales support, please visit: www.support.flir.com/kxx-series

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Specifications, cont.

Model	Flir K75	Flir K85
Battery operating time	Up to 4 hours @ 25°C (77°F) ambient temperature and typical use	
Charging system	Battery is charged inside the camera 2-bay charger 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 testreports/ summaries, see: https://support.flir.com/resources/msds	
Power options	Automatic shutdown and sleep mode	
Environmental data		
Operating temperature range	150°C (302°F): 15 min 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	
Relative humidity	95% relative humidity 25°C to 40°C (77°F to 104°F) non-condensing / 2 cycles	
EMC	EN 301 489-1 RED EN 301 489-17 EN 55032 Class B (Emission) EN 55035 (Immunity) EN 61000-6-2 Immunity according to Industrial EN 61000-6-3 380-480MHz EN 61000-6-3 800-960MHz EN 60945 Maritime equipment FCC 47 CFR part 15 B, class B (Emission) ICES-003	
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)	
Radio spectrum	ETSI EN 300 328 ETSI EN 301 893 FCC 47 CFR part 15 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 IEC 62368	

Model	Flir K75	Flir K85
Physical data		
What's included?	Infrared camera Battery (2 ea.) Battery charger Carabiner strap Power supply Printed documentation Retractable lanyard, 16 N (58 oz) USB cable	
Ordering information		
P/N	18701-0101	18702-0201

Scan below to learn more about Flir Kxx-Series

Specifications subject to change. For the most up-to-date specifications, visit flir.com.

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