

FIREFIGHTING THERMAL IMAGING

FLIR K-SERIES

Thermal Imaging Cameras for Firefighters



PRODUCT GUIDE / SPECIFICATIONS & COMPARISON

SEE MORE. RESPOND WITH CONFIDENCE.



PERSONAL TIC

FLIR K2™

The FLIR K2 is a rugged, reliable, and economical thermal imaging camera specially designed for firefighting applications and severe conditions. This camera displays 160 × 120 pixel thermal images that help firefighters gain additional situational awareness that is not possible with the naked eye. It features Multi-Spectral Dynamic Imaging (MSX®), an easy-to-use button, and the ability to operate in temperatures up to 500°C. The FLIR K2 Situational Awareness TIC is a small investment that pays big dividends – saving lives, protecting property, and ensuring firefighter safety.

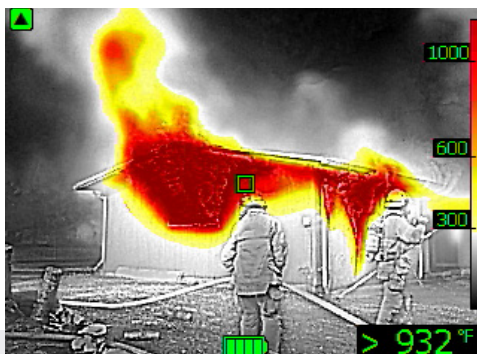
www.flir.com/K2



COMPACT, RUGGED, AND EASY TO USE

Simple, single-button glove-friendly control; straightforward operation

- Compact and lightweight enough to carry anywhere or attach to your gear
- Water resistant (IP67) and rugged enough to withstand a 2-meter drop onto concrete
- Fully operational at temperatures up to 500°F/260°C (max. 3 minutes)



MULTIPLE IMAGE MODES

Greater visibility allows fire crews to create a better plan of attack

- Set the camera to one of seven imaging modes depending upon primary use
- MSX® image enhancement adds edge detail to scenes, helping firefighters identify structures and surroundings
- Change image modes easily using free, downloadable FLIR Tools® software



ENHANCED SITUATIONAL AWARENESS

High-quality imaging can be standard issue for every firefighter

- Displays 160 × 120 thermal pixel resolution images on a bright 3" screen
- Increases safety in low visibility environments with crisp thermal imaging
- Affordable enough to have a Situational Awareness TIC for each rear seat

SPECIFICATIONS

Thermal imaging and optical data	
IR resolution	160 × 120 (19,200 pixels)
Refresh rate	9 Hz
Thermal sensitivity/NETD	<100 mK @ 86°F (30°C)
Field of view (FOV)	47° × 35°
Focal plane array	Uncooled microbolometer, 7.5–13 μm
Start-up time	<30 sec (IR image, no GUI)
Visual camera data	
Built-in digital camera	640 × 480 (307,200 pixels)
Field of view (FOV)	73° × 61°, adapts to IR lens
Sensitivity	Minimum 10 lux
Image presentation	
Display	320 × 240 pixel, 3 in backlit LCD
Auto-range	Auto, non-selectable
Image modes (switch in FLIR Tools®)	Basic firefighting (default); Black-and-white firefighting; Fire; Search-and-rescue; Heat detection; Cold detection; Building analysis mode
Multi Spectral Dynamic Imaging (MSX®)	Yes
Measurement	
Object temperature range	-4°F to 302°F (-20°C to 150°C); 32°F to 932°F (0°C to 500°C)
Accuracy	±7.2°F (±4°C) or ±4% of reading for ambient temperature 50°F to 95°F (10°C to 35°C)
Spotmeters	1

Isotherm	Yes
Automatic heat detection	Heat-detection mode (hottest 20% of scene is colorized)
Data transfer and compatibility	
USB type	USB micro-B
Interfaces	Update from PC devices
Compatibility	Works with FLIR Tools software
General	
Operating temperature range	14°F to 131°F (-10°C to 55°C) – infinity; 185°F (85°C) – 15 minutes; 302°F (150°C) – 10 minutes; 500°F (260°C) – 3 minutes
Storage temperature range	-40°F to 158°F (-40°C to 70°C)
Battery type and voltage	Li-ion, 3.6 V rechargeable
Battery operating time	Approximately 4 hours at 77°F (25°C) and with typical use
Charging time	2.5 h to 90% capacity
Power management	Automatic shutdown and sleep mode
Encapsulation	IP 67 (IEC 60529)
Drop	6.6 ft (2 m)
Weight w/ battery	1.54 lbs (0.7 kg)
Size (L × W × H)	9.8 × 4.1 × 3.5 in (250 × 105 × 90 mm)
Tripod mount	UNC 1/4"-20
Package contents	
K2 camera, 2 batteries, battery charger, lanyard strap, power supply, printed documentation, USB cable	



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19-0238-INS



Specifications

Model	K33
IR Resolution	240 x 180 pixels
Thermal Sensitivity/NETD	< 40 mK @ 30°C (86°F)
Contrast Optimization	Digital image enhancement using FSX™
Field of View (FOV)	51° x 38°
Focus	Fixed focus
Image Frequency	60 Hz
Detector Type	Focal Plane Array (FPA), uncooled microbolometer
Spectral Range	7.5–13 µm
Start-up Time	< 17 sec. (IR-image, no GUI)
Start-up Time from Sleep Mode	< 4 sec.
Image Storage	No
Video Storage	No
In-Camera Video Recording	No
Image Presentation	
Display	4" LCD, 320 x 240 pixels, backlit
Image Modes	TI Basic
Auto-Range	Yes, mode dependent
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 or ±4% of reading for ambient temperature, 10°C to 35°C (50°F to 95°F)
Measurement Analysis	
Spotmeter	One spotmeter
Isotherm	Yes, according to NFPA and mode dependent
Automatic Heat Detection	Heat detection mode (hottest 20% of the scene is colorized)
Set-up	
Color Palettes	Multiple palettes, mode dependent
Regional Adjustments	Units, date, and time formats
Data Communication Interfaces	
Interface	USB-mini
USB	USB Mini-B: Data transfer to and from PC/ uncompressed colorized video
Power System	
Battery	Li Ion, 4 hours operating time
Charging System	2-bay charger, truck charger available
Charging Time	2 hours to 85% (3 hours and 25 minutes) capacity, charging status indicated by LEDs
Charging Temperature	0°C to 45°C (32°F to 113°F)
Environmental Data	
Operating Temperature Range	–20°C to 85°C (–4°F to 185°F), 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 95% relative humidity, 25°C to 40°C (77°F to 104°F) / 2 cycles
Relative Humidity	95% relative humidity 25°C to 40°C (77°F to 104°F) non-condensing
Directives	Designed to meet NFPA 1801:2013 specification: • Vibration • Impact acceleration resistance • Corrosion • Viewing surface abrasion • Heat resistance • Heat and flame • Product label durability
EMC	• EN 61000-6-2:2005 (Immunity) • EN 61000-6-3:2011 (Emission) • FCC 47 CFR Part 15B (Emission)
Magnetic Fields	EN 61000-4-8, Test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 67 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2.0 m / 6.6 ft., on concrete floor (IEC 60068-2-31)
Safety (Power Supply)	CE/EN/UL/CSA/PSE 60950-1
Physical Data	
Camera Weight, Incl. Battery	< 1.1 kg / 2.4 lb
Camera Size (L x W x H)	120 x 125 x 280 mm / 4.7 x 4.9 x 11 in.
Tripod Mounting	UNC ¼"-20
Packaging	
Packaging, Contents	Infrared camera, battery (2 ea.), battery charger, hard transport case, power supply, printed documentation, USB cable, user documentation CD-ROM, lanyard strap, neck strap, retractable lanyard, tripod adapter
Optional Accessories	Extra battery, battery charger, hard case, retractable lanyard, strap lanyard, neck strap, USB-cable, tripod adapter, in-truck charger

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Flir K75 and K85 (2026 Version)

Firefighting Thermal Imaging Cameras



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, OTA updates 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

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	
Contrast optimization	Digital enhancement, Flexible Scene Enhancement (FSX®)	

Model	Flir K75	Flir K85
Image modes	Basic, Search, Detection, High Heat, Black & White	
f-number	1.25	
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.

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Revised 04/21/26

K75_K85_2026_Version_Datasheet_en-US_LTR_RH26-0222-INS



Flir K75 and K85 (2026 Version)

Firefighting Thermal Imaging Cameras

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) 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	3.6 V	
Battery capacity	6.2 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 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: https://support.flir.com/resources/msds	
Power options	Automatic shutdown and sleep mode	
Environmental data		
Operating temperature range	-20°C to 60°C (-4°F to 140°F) 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 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 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	
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 Calibration certificate	
Ordering information		
P/N	18704-0401	18705-0501

Scan below to learn more about Flir Kxx-Series



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Revised 04/21/26

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Flir K85-N

Firefighting Thermal Imaging Camera

NFPA 1930:2025 CERTIFIED



Key Features

- High-resolution of 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, OTA updates 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 highheat 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

Specifications

Model	Flir K85-N
Imaging and optical data	
Certification	NFPA 1930:2025
IR resolution	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

Model	Flir K85-N
Contrast optimization	Digital enhancement, Flexible Scene Enhancement (FSX®)
Image modes	TI 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

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Revised 04/22/2026

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Flir K85-N

Firefighting Thermal Imaging Camera

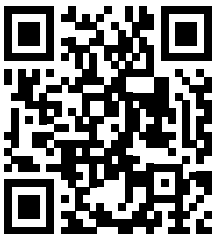
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Specifications, cont.

Model	Flir K85-N
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	3.6 V
Battery capacity	6.2 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 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: https://support.flir.com/resources/msds
Power options	Automatic shutdown and sleep mode
Environmental data	
Operating temperature range	-20°C to 60°C (-4°F to 140°F) 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 95
Relative humidity	95% relative humidity 25°C to 40°C (77°F to 104°F) non-condensing

Model	Flir K85-N
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
Physical data	
What's included?	Infrared camera Battery (2 ea.) Battery charger Carabiner strap Power supply Printed documentation Retractable lanyard Calibration certificate 16 N (58 oz) USB cable
Ordering information	
P/N	18703-0301

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Revised 04/22/2026

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Key Features

- High-resolution of 640 × 480 with 95° FOV provides premium image quality and enhanced scene overview. Firefighters can cover more space at once when sweeping rooms and detect victims, doors, and hazards more efficiently.
- 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 (6.6 ft) 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.

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Specifications

Model	Flir K95
Imaging and optical data	
IR resolution	640 × 480
Thermal sensitivity, NETD	<70 mK
Field of view	95° × 74°
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 K95
Contrast optimization	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)
Video and images	
Storage media	Internal flash memory
Image storage formats	Standard JPEG
Media gallery	Camera and Flir Responder app

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Revised 07/08/2026

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Flir Kxx-Series

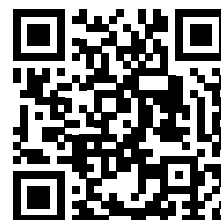
Firefighting Thermal Imaging Cameras

Specifications, cont.

Model	Flir K95
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	3.6 V
Battery capacity	6.2 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 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: https://support.flir.com/resources/msds
Power options	Automatic shutdown and sleep mode
Environmental data	
Operating temperature range	-20°C to 60°C (-4°F to 140°F) 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 95
Relative humidity	95% relative humidity 25°C to 40°C (77°F to 104°F) non-condensing

Model	Flir K95
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
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	18706-0601

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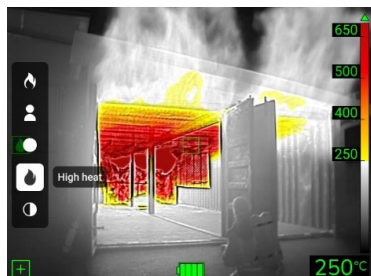
Revised 09/10/2025

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Flir K-Series Matrix

Thermal Imaging Cameras for Firefighters



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.

The Flir K-Series lineup offers better image quality and sharpness, significantly noticed in low-contrast scenes. The latest models feature a market-leading **single-range solution** as well as integrated wireless connectivity with the **Flir Responder App**.



Model	K2	K33	K75	K85	K85-N	K95
IR Resolution	160 × 120	240 × 180	320 × 240	640 × 480	640 × 480	640 × 480
Thermal Sensitivity	<100 mK @ 86°F	<40 mK @ 86°F	<60 mK	<60 mK	<60 mK	<70 mK
Field of View (FOV)	47° × 35°	51° × 38°	53° × 40°	53° × 40°	53° × 40°	95° × 74°
Object Temperature Range	-20°C to 150°C, 0°C to 500°C (-4°F to 302°F, 32°F to 932°F)	-20°C to 150°C, 0°C to 650°C (-4°F to 302°F, 32°F to 1202°F)	Single-Range Solution -20°C to 650°C (-4°F to 1202°F)	Single-Range Solution -20°C to 650°C (-4°F to 1202°F)	Single-Range Solution -20°C to 650°C (-4°F to 1202°F)	Single-Range Solution -20°C to 650°C (-4°F to 1202°F)
Live Streaming	-	-	via Flir Responder App	via Flir Responder App	via Flir Responder App	via Flir Responder App
Part Number	73701-0101	72203-0411	18704-0401	18705-0501	18703-0301	18706-0601



Flir Responder App

Critical Support Before, During, and After the Mission

The Flir Responder App gives fire crews simple control over their thermal imaging cameras, supporting configuration, over the air updates, and advanced calibration. Wireless streaming enables real time visibility for training, while easy transfer of images and video supports post incident analysis, reporting, and ongoing skill development. Available through the Apple Store and Google Play.



New! Flir In-Truck Charger

Twist-and-Lock In-Truck Charging System

The new Flir In-Truck Charger is designed to support all legacy and new Kxx-Series thermal imaging cameras, streamlining daily operations for fire crews. An intuitive twist and lock docking mechanism enables quick, secure, one handed insertion and removal, minimizing handling time when seconds matter. Its durable, fixed design eliminates moving parts, improving reliability and serviceability. (Part Number: T301082ACC)