



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 x 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

SPECIFICATIONS

Product name	K33	K45	K53	K55	K65
Imaging and Optical Data					
IR resolution	240 × 180 (43,200 pixels)		240 × 180 (43,200 pixels)	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 Black and white Fire Search and rescue Heat detection	Basic mode	Basic Black and white Fire Search and rescue Heat detection	TI Basic NFPA Black and white TI Basic PLUS NFPA Search and rescue 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. 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 Data transfer to and from PC				
General					
Battery	3.6V / 4.4Ah Li-ion, approximately 4-hour operating time				
Charging system	2-bay charger 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) 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)				
Compliance	—				NFPA 1801-2021 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 Code T4/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 [teledynelflir.com](https://www.teledynelflir.com).

www.teledynelflir.com

Equipment described herein is subject to US export regulations and may require a license prior to export. Diversion contrary to US law is prohibited. Images for illustration purpose only. Specifications are subject to change without notice. ©2024 Teledyne FLIR LLC. All rights reserved. 23-1105-INS Revised 14 Dec 2023