



# FLIR K33™ / K53™

Thermal Imaging Cameras for Firefighters



The K33 and K53 are easy-to-use thermal imaging cameras (TIC) that offer affordability without sacrificing the reliability, clarity, or performance that first responders expect from FLIR. Both cameras feature FLIR's patented FSX® Flexible Scene Enhancement, which intensifies thermal images' structural and textural details. The enhanced perspective and greater orientation improves firefighters' tactical decision-making capabilities. First responders gain a sense of confidence and safety as they forge ahead to fight fires and save lives.

[www.flir.com/K33](http://www.flir.com/K33)

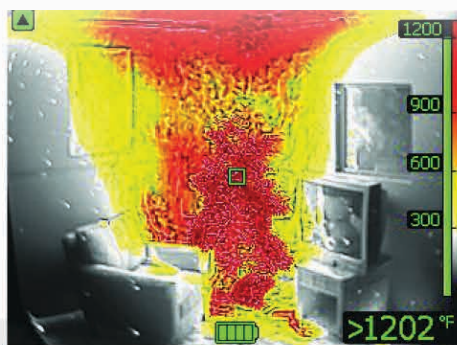
[www.flir.com/K53](http://www.flir.com/K53)



## STREAMLINED HIGH PERFORMANCE

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

- Compact and lightweight enough to carry anywhere or attach to your gear
- Record images and videos with a simple trigger-pull\*
- Water-resistant (IP67), and rugged enough to withstand a drop from 2 m (6.6 ft) onto a concrete floor
- Fully operational at temperatures up to 500°F/260°C (max. 5 minutes)



## UNCOMPROMISING CLARITY AND RESOLUTION

Detail-rich images help you see clearly and move safely in smoky conditions

- K33 240 × 180 (43,200 pixel) resolution and K53 320 × 240 (76,800 pixel) resolution to see clearly in smoky environments
- Rapid refresh-rate (60 Hz) for better on-scene orientation
- FLIR FSX digital processing adds edge detail for greater perspective and increased navigational capabilities
- Bright and easy to see 4" LCD display



## IMPROVED TACTICAL DECISION-MAKING

High-quality imaging can be standard issue for every firefighter

- Affordable enough for fire crews to have multiple TICs in use at a fire scene
- Provides clear visual information needed to make crucial tactical decisions
- Stores thermal images and video clips to access for on-scene review or to produce scene incident reports\*

\*K53 model only



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## SPECIFICATIONS

Thermal imaging and optical data	K33	K53
IR resolution	240 × 180 (43,200 pixels)	320 × 240 (76,800 pixels)
Thermal sensitivity/NETD	<40 mK @ 86°F (30°C)	<30 mK @ 86°F (30°C)
Image/video storage	NA	Up to 200 image or video files (max. duration of 5 min)
Refresh rate	60 Hz	
Field of view (FOV)	51° × 38°	
Focal plane array	Uncooled microbolometer, 7.5–13 μm	
Start-up time	<17 sec (IR image, no GUI)	
Image presentation		
Display	320 × 240 pixel, 4 in backlit LCD	
Auto-range	Selectable on/off in FLIR Tools	
Image modes	Fixed color scale, TI Basic	
Flexible Scene Enhancement (FSX®)	Yes	
Measurement		
Object temperature range	-4°F to 302°F (-20°C to 150°C); 32°F to 1202°F (0°C to 650°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	
Data transfer and compatibility		
USB type	USB mini-B	

Interfaces	Update from PC devices, data transfer to and from PC
Video streaming	Uncompressed video over USB
<b>General</b>	
Operating temperature range	-4°F to 185°F (-20°C to 85°C) – infinity; 302°F (150°C) – 15 minutes; 500°F (260°C) – 5 minutes
Storage temperature range	-40°F to 185°F (-40°C to 85°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 h to 85% capacity
Directives	Designed to meet specifications for the following: • Vibration • Impact acceleration resistance • Corrosion • Viewing surface abrasion • Heat resistance • Heat and flame • Product label durability
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)
Safety (power supply)	CE/EN/UL/CSA/PSE 60950-1
Size (L × W × H)	4.7 × 4.9 × 11 in (120 × 125 × 280 mm)
Tripod mount	UNC 1/4"-20
<b>Package contents</b>	
K33 or K53 TIC, 2 batteries, battery charger, hard transport case, lanyard strap, neck strap, power supply, printed documentation, retractable lanyard, USB cable. Optional truck charger available.	



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