



THERMAL IMAGING CAMERAS FOR FIREFIGHTERS

FLIR K33™ / K53™

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

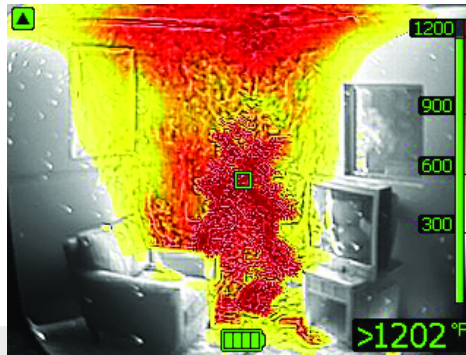
www.flir.com/K53



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

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
General	
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
Package contents	
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.	



CORPORATE
HEADQUARTERS
FLIR Systems, Inc.
27700 SW Parkway Ave.
Wilsonville, OR 97070
USA
PH: +1 877.773.3547

NASHUA
FLIR Systems, Inc.
9 Townsend West
Nashua, NH 03063
USA
PH: +1 866.477.3687

CANADA
FLIR Systems, Ltd.
3430 South Service Road
Suite 103
Burlington, ON L7N 3T9
Canada
PH: +1 800.613.0507

LATIN AMERICA
FLIR Systems Brasil
Av. Antonio Bardella, 320
Sorocaba, SP 18085-852
Brasil
PH: +55 15 3238 8070

www.flir.com
NASDAQ: FLIR

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