



## THERMAL IMAGING CAMERA FOR FIREFIGHTERS

# FLIR K53™

The K53 is an easy-to-use thermal imaging camera (TIC) that offers affordability without sacrificing the reliability, clarity, or performance first responders expect from FLIR. The K53 features FLIR's patented FSX® Flexible Scene Enhancement, which intensifies thermal images' structural and textural details. The enhanced perspective improves firefighters' orientation and 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/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

- 320 × 240 (76,800 pixel) resolution and a rapid refresh-rate (60 Hz) help orient you on the scene
- FLIR FSX digital processing adds edge detail for greater perspective and increased navigational awareness
- Bright and easy to see 4" LCD display



### IMPROVED TACTICAL DECISION-MAKING

High-quality imaging can be standard issue for every firefighter

- Provides clear visual information needed to make crucial tactical decisions
- Fixed temperature scale with TI Basic Mode allows for quick reference in rapidly evolving conditions without confusing changes
- Stores thermal images and video clips to access for on-scene review or to produce scene incident reports

## SPECIFICATIONS

Thermal imaging and optical data	
IR resolution	320 × 240 (76,800 pixels)
Refresh rate	60 Hz
Thermal sensitivity/NETD	<30 mK @ 86°F (30°C)
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 storage, transfer, and compatibility	
USB type	USB mini-B
Interfaces	Update from PC devices, data transfer to and from PC
Compatibility	Works with FLIR Tools software

Image/video storage	Up to 200 image or video files (max. duration of 5 min)
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
Drop	EMC • EN 61000-6-2:2005 (Immunity) • EN 61000-6-3:2011 (Emission) • FCC 47 CFR
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	
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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