FLIR

FLIR K45™ / K55™

The FLIR K45 and K55 thermal imaging cameras (TIC) allow firefighters to see more clearly in the harshest environments, maneuver more strategically, stay better oriented, and find victims faster. Both cameras feature FLIR's proprietary FSX® Flexible Scene Enhancement technology, producing ultra-sharp, finer textured images that shows subtler details. With FLIR TICs, first responders can quickly and confidently find their way through the darkest environments, identify targets in extreme temperature settings, and make better decisions when seconds count.
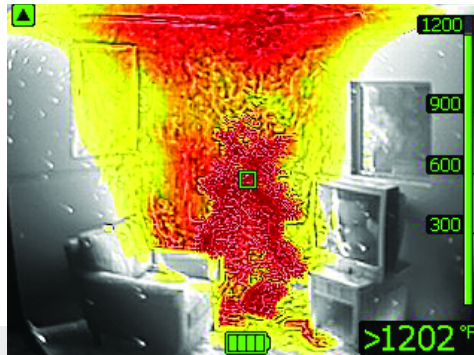
www.flir.com/K45

www.flir.com/K55

COMPACT, RUGGED, AND EASY TO USE

Glove-friendly three-button design for straightforward operation

- Compact and lightweight enough to carry anywhere or attach to your gear
- Water-resistant (IP67), and rugged enough to withstand drops from 2 m (6.6 ft) onto concrete
- 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

- K45 240 × 180 (43,200 pixel) resolution and K55 320 x 240 (76,800 pixel) resolution to see clearly in smoky environments
- Rapid refresh-rate (60 Hz) helps orient first responders on the scene
- FLIR FSX digital processing adds edge detail for greater perspective and increased navigational capabilities

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
- K45 stores up to 200 images and K55 records up to 200 images and/or video clips, captured with a simple trigger-pull for on-scene review or later assessment

SPECIFICATIONS

Thermal imaging and optical data	K45	K55
IR resolution	240 × 180 (43,200 pixels)	320 x 240 (76,800 pixels)
Thermal sensitivity/NETD	<40 mK @ 86°F (30°C)	<30 mK @ 86°F (30°C)
Image/video storage	Up to 200 images	Up to 200 image or video files (max. 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	Yes, mode-dependent	
Image modes	TI Basic (default); Black-and-white firefighting; Fire; Search-and-rescue; Heat detection	
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	
Isotherm	Yes, according to NFPA and mode-dependent	
Automatic heat detection	Heat-detection mode (hottest 20% of scene is colorized)	

Data transfer and compatibility	
USB type	USB mini-B
Interfaces	Update from PC devices
Compatibility	Works with FLIR Tools software
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	6.6 ft (2 m)
Weight w/ battery	2.4 lbs (1.1 kg)
Size (L × W × H)	4.7 × 4.9 × 11 in (120 × 125 × 280 mm)
Tripod mount	UNC 1/4"-20
Package contents	

K45 or K55 TIC, 2 batteries, battery charger, hard transport case, lanyard strap, neck strap, power supply, printed documentation, retractable lanyard, USB cable . Optional truck charger available.

2 YEAR BATTERY WARRANTY* **5 YEAR FULL PRODUCT WARRANTY*** **10 YEAR DETECTOR WARRANTY***

◆FLIR®