FLIR K65

NFPA®-Compliant Thermal Imaging Camera

FLIR's NFPA-compliant K65 allows firefighters to see more clearly in the harshest environments, maneuver more strategically, stay better oriented, and find victims faster.

The K65 is an advanced, feature-rich thermal imaging camera that is designed to be fully compliant with the National Fire Protection Association® 1801-2013 Standard for Thermal Imagers covering usability, image quality, and durability for firefighting.

Easy-to-use, even with gloves on

Controlled by three simple, large buttons designed for gloved operation, the K65 has an intuitive user interface that allows firefighters to stay focused on the job at hand.

Clear and crisp thermal images

The K65's maintenance free uncooled microbolometer sensor produces detail-rich thermal images at 320 x 240 pixels. Displayed on a large bright 4" LCD, K-Series images make it easier to navigate under the smokiest conditions, and help provide a more expedient way to decide on the best course of action.

Flexible Scene Enhancement

The K65 also features FLIR's proprietary FSX™ Flexible Scene Enhancement technology which enhances thermal images through real-time digital processing inside the camera. These ultra sharp images show extraordinary structural, edge, and other instantly-recognizable detail, making it more efficient for firefighters and rescue teams to find their way through the darkest environments, and to instantly identify targets in scenes with extreme temperature dynamics.

Rugged and reliable

The K65 is designed to meet tough operating conditions. It's able to withstand a drop from 2 meters onto a concrete floor, is water resistant (IP67), and is fully operational up to +500°F / +260°C for 5 minutes.

Produce simple reports

Thermal images can be stored in the FLIR K-Series and later be used to produce simple reports of what happened at the scene.
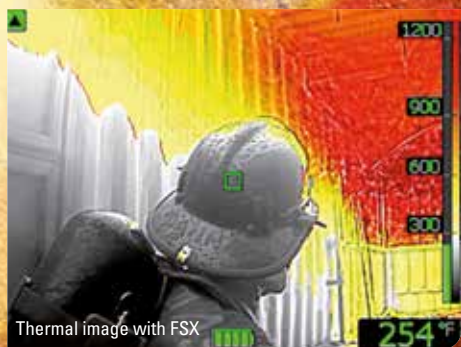
In-camera video storage

Able to store 200 images or video clips with a maximum length of 5 minutes each – ideal of on-site assessment, later analysis, or for training purposes.

Extended warranty

All new K65 cameras are protected, after registration on www.flir.com, by our exclusive FLIR 2-5-10 Warranty that includes two years of coverage on batteries, five years on the camera, and ten years on the detector.

* after product registration on www.flir.com

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Thermal image without FSX

Thermal image with FSX

www.flir.com

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FLIR K65 Imaging Specifications

Directives	
Certified according to NFPA1801:2013 specification	Vibration, impact acceleration resistance, corrosion, viewing surface abrasion, heat resistance, heat and flame, product label durability

Imaging and optical data	
IR resolution	320 × 240 pixels
Thermal sensitivity	< 30 mK @ +30°C (+86°F)
Contrast optimization	Digital image enhancement using FSX
Field of view (FOV) / focus	51° × 38° / fixed focus
Image frequency	60 Hz
Zoom	2x, digital zoom
Focal Plane Array (FPA) / Spectral range	Uncooled microbolometer / 7.5–13 µm
Start-up time	< 17 sec. (IR-image, no GUI)
Start-up time from sleep mode	< 4 sec.
Storage	Able to store 200 images or video clips with a maximum length of 5 minutes each to internal flash memory
Image format	JPEG
In-camera video recording format	Non radiometric MPEG-4

Image presentation	
Display	4" LCD, 320 × 240 pixels, backlit
Image modes – switchable using FLIR Tools software	TI Basic NFPA fire-fighting mode Black-and-white fire-fighting mode Fire mode Search-and-rescue mode Heat detection mode
Auto-range	Yes, mode dependent

Measurement	
Object temperature range	-4 °F to +302 °F / –20 °C to +150 °C 32 °F to +1,202 °F / 0 °C to +650 °C
Accuracy	±4°C or ±4% of reading for ambient temperature 50 °F to 95 °F / 10°C to 35°C

Measurement analysis	
Spotmeter	1
Isotherm	Yes, According to NFPA and mode dependent
Automatic heat detection	Heat detection mode (the hottest 20% of the scene is colorized)

Set-up	
Color palettes	Multiple palettes, mode dependent
Regional adjustments	Units, date and time formats

Data communication interfaces	
Interfaces	USB-mini
USB	USB Mini-B: Data transfer to and from PC / uncompressed colorized video

Power system	
Battery	Li Ion, 4 hours operating time
Charging system	2-bay charger, truck charger available
Charging time	2 hours to 85% (3 hours and 25 minutes) capacity, charging status indicated by LED's
Charging temperature	32 °F to 113 °F / 0 °C to +45 °C

Environmental data	
Designed to meet NFPA 1801-2013 specification	Vibration, impact acceleration resistance, corrosion, viewing surface abrasion, heat resistance, heat and flame, product label durability
Operating temperature range	–4°F to +185°F (–20°C to +85°C) +302°F (+150°C): 15 min +500°F (+260°C): 5 min
Storage temperature range	-40 °F to +185 °F / –40 °C to +85 °C
Encapsulation	IP 67 (IEC 60529)
Bump	25 g (IEC 60068-2-29)
Drop	2.0 m / 6.6 ft., on concrete floor (IEC 60068-2-31)

Physical data	
Camera weight, incl. battery	<1,1 kg / 2.4lb
Camera size (L × W × H)	<120 × 125 × 280 mm / <4.7 x 4.9 x 11"
Tripod mounting	UNC ¼"-20

Packaging	
Packaging, contents	Infrared camera, battery (2 ea.), battery charger, hard transport case, power supply, Printed documentation, USB cable and user documentation CD-ROM

The Safety Equipment Institute (SEI) has certified that the FLIR K65 product complies with the NFPA® 1801-2013 standard. Camera connectors (top) are fully sealed and the battery (bottom) can be fixed inside the camera with a screw.

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