FLIR

SITUATIONAL AWARENESS CAMERA

FLIR K1™

The FLIR K1 is a rugged, compact thermal camera that serves as an extra set of eyes on the fire scene, allowing commanders, officers, and inspectors to quickly complete a 360° assessment in total darkness and through smoke. With a bright, integrated flashlight, the FLIR K1 illuminates the scene to help the user steer and manage the crew more effectively. It also displays 160 × 120 pixel thermal images that help users gain additional situation awareness that is not possible with the naked eye. The FLIR K1 is pocket-portable or attaches easily to a belt using the included pouch – making it easy to have on-hand for investigations around buildings, industrial settings, traffic accidents, wildland calls, or search and rescue activities.

ENHANCE SITUATIONAL AWARENESS

Complete a thorough 360° assessment of the scene

- Quickly identify structures and surroundings with MSX® image enhancement, which uses a visual image to add edge detail to scenes
- Never lose line of sight with the pistol-grip design
- Clearly see the scene from top to bottom with the 57° × 44° portrait view
- Improve visibility of structures in the dark with the integrated, 300-lumen flashlight

DOCUMENT FINDINGS CONVENIENTLY

Gather compelling evidence and save readings for simple reporting

- Take point-and-shoot images with the straightforward snapshot function
- Saves both a radiometric IR image and visual image of the scene simultaneously for easier interpretation
- Large internal memory saves up to 10,000 image sets
- Complete image post-processing and reporting using FLIR Tools® software

RUGGED AND EASY TO USE

Rely on the durable construction to last for years to come

- Compact and lightweight enough to carry anywhere or attach to gear
- Water resistant (IP67) and rugged enough to withstand a 2-meter (6 ft) drop onto concrete
- Work longer without interruption thanks to the integrated battery that lasts up to 5.5 hours without charge

SPECIFICATIONS

Image and Optical Data	
IR Resolution	160 × 120 pixels
Thermal Sensitivity/NETD	<100 mK
Field of View (FOV)	57° × 44°
Image Frequency	8.7 Hz
Focus	Fixed

Detector Data	
Detector Type	Focal plane array, uncooled microbolometer
Spectral Range	8 - 13 µm
Pitch	12 µm

Visual Camera Data	
Resolution	2 MP
Focus	Fixed
Field of View (FOV)	71° × 56°, adapts to the IR lens

Image Presentation and Modes	
Resolution	320 × 240 pixels
Screen Size	2.4 in
Multi Spectral Dynamic Imaging (MSX®)	Yes
Cover Glass Material	Polycarbonate

Measurement	
Object Temperature Range	High Gain Mode: –10°C to 140°C (14°F to 284°F) Low Gain Mode: –10°C to 400°C (14°F to 752°F) (at room temperature)
Accuracy	Accuracy for ambient temperatures of 10 to 35°C (50 to 95°F): High Gain Mode: ±5°C or ±5% Low Gain Mode: ±10°C or ±10%
Spotmeter	Center spot
Color Palettes	• T1 Basic (White-hot with isotherm) • White-hot • Iron

Data Transfer and Compatibility	
USB Type	USB Type-C
Interfaces	USB 2.0
Compatibility	Image post processing and reporting in FLIR Tools®

General	
Memory Size	3.9 G , >9999 images
Operating Temperature Range	–10°C to 45°C (14°F to 113°F)
Storage Temperature Range	–30°C to 55°C (–22°F to 131°F)
Battery Type and Voltage	Li-ion, 3.7 V rechargeable
Battery Operating Time	MSX mode: 5.5 h Flashlight only: 3.8 h
Charging Time	4 hours to 90%, 6 hours to 100%
Power Management	Adjustable
Encapsulation	IP67 (IEC 60529)
Drop	2 m (6.6 ft)
Weight w/ Battery	0.410 kg (0.904 lb)
Size (L × W × H)	208 × 85 × 65 mm (8.19 × 3.3 × 2.6 in)
Tripod Mount	UNC ¼"-20
Warranty	2 years on parts and labor, 10 year on detector after registration

Package Contents

K1 camera, printed documentation, wrist strap lanyard, USB-C to USB-A cable, tactical pouch

FLIR® | The World's Sixth Sense®

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