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FLIR FLIR K45

FLIR K45 High Performance Thermal Imaging Camera User Manual

Model: FLIR K45

INTRODUCTION

This manual provides comprehensive instructions for the safe and effective operation, maintenance, and troubleshooting of your FLIR K45 High Performance Thermal Imaging Camera. The FLIR K45 is designed to provide clear thermal images in challenging environments, aiding in navigation and decision-making.





Figure 1: FLIR K45 Thermal Imaging Camera in operation, showing a thermal view.

SAFETY INFORMATION

Always read and understand all safety warnings and instructions before operating the FLIR K45 camera. Failure to do so may result in injury or damage to the device.

- Do not expose the camera to temperatures exceeding its operational limits (up to 500°F for 5 minutes).
- Ensure the battery is properly charged and installed before use.
- Avoid direct exposure of the lens to extreme heat sources when not in use for thermal imaging.
- The device is water resistant (IP67), but avoid prolonged submersion.

PRODUCT COMPONENTS

The FLIR K45 package includes the following items:

- FLIR K45 Thermal Imaging Camera
- Lithium Ion Battery (included)
- Charging dock (if applicable, based on image)
- USB Cable
- Power Adapter
- Documentation



Figure 2: Front view of the FLIR K45 camera, showing the screen and control buttons.



Figure 3: Front view of the FLIR K45, highlighting the thermal lens.

SETUP

1. Charging the Battery

The FLIR K45 uses a Lithium Ion battery. Before first use, fully charge the battery. Connect the camera to the charging dock or directly via the USB cable to a power adapter.



Figure 4: FLIR K45 in its charging dock. Camera not included with charger.

2. Inserting the Battery

Locate the battery compartment, typically at the base of the handle. Insert the charged Lithium Ion battery, ensuring it clicks into place securely.

3. Initial Power On

Press and hold the power button (green button) to turn on the device. The 4-inch screen will illuminate, displaying the FLIR logo followed by the thermal image feed.

OPERATING INSTRUCTIONS

1. Basic Operation

Point the camera towards the area of interest. The thermal image will be displayed on the 4-inch screen. The K45 provides a crisp, 240 x 180 pixel thermal image, enhanced by FSX™ Flexible Scene Enhancement for improved detail.



Figure 5: Example of a thermal image captured by the FLIR K45, indicating temperature variations.

2. Image Modes

The FLIR K45 offers several image modes to optimize viewing for different scenarios. Use the mode selection button (often indicated by a plus/minus or menu icon) to cycle through these options:

- **IR image:** Standard infrared thermal view.
- **TI Basic fire-fighting mode:** Optimized for general firefighting scenarios.
- **Black-and-white fire-fighting mode:** Provides a high-contrast monochrome thermal view.
- **Fire mode:** Specific mode for fire scene analysis.
- **Search-and-rescue mode:** Enhances visibility for locating individuals.
- **Heat detection mode:** Highlights areas of significant heat.
- **Thumbnail gallery:** Allows review of saved images.



Figure 6: Detail of the FLIR K45 control buttons for navigation and mode selection.

3. Capturing Images

To capture a thermal image, press the designated capture button (refer to the device's physical buttons, often a trigger or a specific button on the control panel). Images are saved to the internal memory or an inserted SD card.

MAINTENANCE

1. Cleaning the Camera

Regularly clean the camera body with a damp cloth. For the lens, use a soft, lint-free cloth specifically designed for optical surfaces. Do not use abrasive cleaners or solvents.

2. Battery Care

To prolong battery life, avoid fully discharging the battery frequently. Store the camera and battery in a cool, dry place

when not in use for extended periods.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Camera does not power on.	Low or depleted battery.	Charge the battery fully.
Image is blurry or unclear.	Dirty lens; extreme temperature difference.	Clean the lens; allow camera to acclimate to environment.
Cannot save images.	Memory full or no SD card inserted.	Delete old images or insert a compatible SD card.

If you encounter issues not listed here, please refer to the support section for further assistance.

SPECIFICATIONS

Feature	Detail
Model	FLIR K45
Thermal Resolution	240 x 180 pixels
Screen Size	4-inch (11 cm)
Accuracy	±4°C (±7.2°F) or ±4% of reading (for ambient 10°C to 35°C)
Durability	Withstands 2-meter drop, IP67 water resistant
Operating Temperature	Fully operational up to 500°F (5 minutes)
Battery Type	1 Lithium Ion battery (included)
Product Dimensions	4.7 x 4.9 x 11 inches
Item Weight	1 pound
Media Type	SD Card

WARRANTY INFORMATION

The FLIR K45 camera is protected by FLIR's 2-5-10 Warranty:

- **2 years** for batteries.
- **5 years** for the camera.
- **10 years** for the detector.

For detailed warranty terms and conditions, please refer to the official FLIR website or contact customer support.

CUSTOMER SUPPORT

For technical assistance, service, or additional information regarding your FLIR K45 Thermal Imaging Camera, please

contact FLIR customer support or visit the official FLIR website.
You can also visit the [FLIR Store on Amazon](#) for product information and resources.


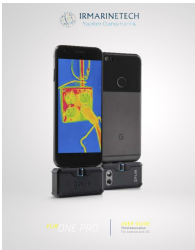
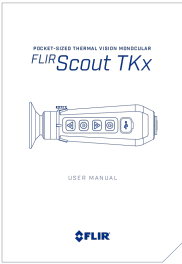

PRODUCT VIDEOS

No official product videos from the seller were provided in the available data for embedding in this manual.



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Related Documents - FLIR K45

	<p>FLIR E60 Accessory Kit: Comprehensive List of Thermal Camera Accessories</p> <p>Detailed list of accessories for the FLIR E60 thermal imaging camera, including cases, cables, power supplies, chargers, batteries, memory cards, and documentation from Advanced Test Equipment Corp.</p>
	<p>FLIR ONE Pro User Guide: Thermal Imaging Camera for Smartphones</p> <p>Comprehensive user guide for the FLIR ONE Pro, a thermal imaging camera attachment for Android and iOS devices. Learn about charging, app features, image capture, color palettes, IR scale, gain mode, MSX technology, and more.</p>
	<p>FLIR Scout TKx Thermal Vision Monocular User Manual</p> <p>Comprehensive user manual for the FLIR Scout TKx pocket-sized thermal vision monocular, detailing its features, operation, charging, user menu, maintenance, and technical specifications.</p>
	<p>FLIR Thermal Studio User's Manual</p> <p>Comprehensive user manual for FLIR Thermal Studio software, detailing its features for thermal image analysis, report generation, and batch processing. Learn about installation, user interface, editing tools, and reporting capabilities.</p>

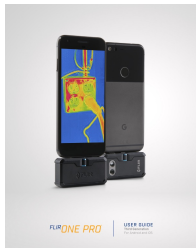


Getting started
FLIR Ex series



[FLIR Ex Series Getting Started Guide](#)

Get started quickly with your FLIR Ex series thermal camera. This guide covers essential safety, camera parts, and setup instructions for efficient thermal imaging.



[FLIR ONE Pro User Guide: Thermal Imaging for Smartphones](#)

Comprehensive user guide for the FLIR ONE Pro thermal imaging camera for Android and iOS devices. Learn about charging, app features, taking photos and videos, and advanced functions like MSX and spot meters.