FLIR FLIR i7

FLIR i7 Compact Thermal Imaging Camera Instruction Manual

Model: FLIR i7

Introduction

The FLIR i7 Compact Infrared Thermal Imaging Camera is a non-invasive monitoring and diagnostic tool designed to detect temperature variations. It is suitable for identifying potential electrical and mechanical failures, insulation issues, and moisture problems. Its compact size and intuitive operation make it an accessible tool for various applications, from home inspections to industrial maintenance.

Key Features

- Pocket-sized and fully automatic design for ease of use.
- High thermal sensitivity of 0.1°C for precise problem detection.
- Focus-free lens for convenient viewing.
- High-resolution 2.8-inch color LCD screen.
- Multiple measurement modes: Spot (center), area (min/max), and isotherm (above/below).
- Storage capacity for up to 5,000 radiometric JPEG images on a 512 MB microSD card.
- Rechargeable lithium-ion battery providing over four hours of continuous use.
- Rugged, double-molded design meeting IP43 dust/splash proof standards.
- Includes QuickReport PC software for image analysis and report generation.

Setup

Unpacking and Initial Inspection

Carefully unpack all components from the hard carrying case. Verify that all items listed in the "What's in the Box" section are present and undamaged.

Figure 1: FLIR i7 camera and accessories neatly packed in its protective hard carrying case.

Charging the Battery

Before first use, fully charge the included lithium-ion battery. The charger can be plugged directly into the camera for convenience. A full charge provides over four hours of operation.

Inserting the MicroSD Card

Locate the microSD card slot, typically protected by a rubber flap. Insert the provided 512 MB microSD card into the slot until it clicks into place. This card is essential for saving images.

Operating Instructions

Powering On/Off

Press and hold the power button (usually located near the display) to turn the camera on or off. The camera will perform a brief self-check upon startup.

Figure 2: Front view of the FLIR i7 camera with its display showing a thermal image.

Basic Operation and Display

The FLIR i7 features intuitive one-handed operation. Point the camera towards the area of interest. The 2.8-inch LCD color screen will display the thermal image in real-time. The camera has a focus-free lens, simplifying operation.

Figure 3: Side view of the FLIR i7, highlighting its ergonomic design.

Measurement Modes

The camera offers three primary display measurement modes:

- **Spot (center):** Displays the temperature at the center of the screen.
- **Area (min/max):** Shows the minimum and maximum temperatures within a defined area.
- **Isotherm (above/below):** Highlights areas above or below a set temperature threshold.

Custom settings, including locking the temperature range and configuring the preferred color palette, can be adjusted via the camera's menu.

Figure 4: FLIR i7 menu interface for adjusting settings and measurement modes.

Capturing and Storing Images

To capture a thermal image, press the trigger button. The image will be saved automatically to the microSD card in JPEG format. The camera can store up to 5,000 radiometric images. Use the thumbnail gallery feature to quickly browse stored images.

Maintenance

Cleaning the Camera

Wipe the camera body with a soft, damp cloth. For the lens and screen, use a lens cleaning cloth and solution specifically designed for optics to avoid scratches. Do not use abrasive cleaners or solvents.

Battery Care

To prolong battery life, avoid fully discharging the battery frequently. Store the camera with a partially charged battery if it will not be used for extended periods. Recharge the battery as needed; it can be charged directly in the camera.

Storage

When not in use, store the FLIR i7 in its hard carrying case in a cool, dry place, away from direct sunlight and extreme temperatures.

Troubleshooting

Camera Does Not Power On

- Ensure the battery is fully charged. Connect the camera to the AC adapter and allow it to charge for at least 30 minutes before attempting to power on again.
- Verify the battery is correctly inserted.

Images Are Blurry or Unclear

- Although the i7 has a focus-free lens, ensure there are no obstructions on the lens. Clean the lens with a soft, lint-free cloth if necessary.
- Ensure you are within the optimal measurement distance for the object.

Cannot Save Images

- Check if the microSD card is properly inserted.
- Verify that the microSD card is not full. If it is, transfer images to a computer and delete them from the card, or replace the card.
- Ensure the card is not write-protected (if applicable to the card type).

Software (QuickReport) Issues

- Ensure your computer meets the minimum system requirements for QuickReport software.
- Reinstall the software if issues persist.
- Refer to the QuickReport software manual for specific troubleshooting steps.

Specifications

Attribute	Detail
Manufacturer	FLIR Systems
Part Number	60101-0301
Item Weight	12 ounces
Package Dimensions	15.7 x 12.1 x 5 inches
Item Model Number	FLIR i7
Size	Compact

Attribute	Detail
Color	Blue/Gray
Style	Standard
Item Package Quantity	1
Batteries Included?	Yes
Batteries Required?	Yes
ASIN	B003V4BE20
Date First Available	October 30, 2009

What's in the Box

- FLIR i7 Camera
- MicroSD card
- MiniSD adapter
- Rechargeable Battery
- AC adapter with EU, UK, US, and Australian plugs
- QuickReport software (on CD or download link)
- USB cable
- Hand strap
- Hard Carrying Case
- CD of Manual and Documentation

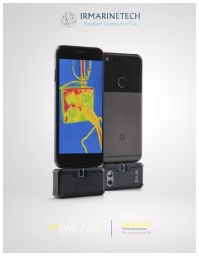
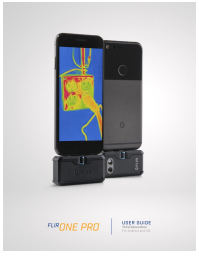
Warranty Information

The FLIR i7 is backed by a manufacturer's two-year limited warranty on parts and labor. For detailed warranty terms and conditions, please refer to the documentation included with your product or visit the official FLIR website.

Support

For technical support, service, or additional information, please contact FLIR Systems customer service. Refer to the contact details provided in the product documentation or on the official FLIR website.

Related Documents - FLIR i7

	[FLIR E60 Accessory Kit: Comprehensive List of Thermal Camera Accessories] 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.
	[FLIR ONE Pro User Guide: Thermal Imaging Camera for Smartphones] 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.
	[FLIR i-Series Infrared Cameras: Affordable Point-and-Shoot Thermal Imaging] Discover the FLIR i-Series, offering affordable and powerful point-and-shoot infrared cameras like the FLIR i3, i5, and i7. Learn about their features, specifications, and applications for electrical, industrial, and building diagnostics.
	[FLIR Thermal Studio User's Manual] 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.
	[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.