FLIR FLIR ONE Pro LT iOS

FLIR ONE Pro LT User Manual

HIGH-RESOLUTION THERMAL IMAGING CAMERA FOR IOS SMARTPHONES

1. Introduction

The FLIR ONE Pro LT is a powerful thermal imaging camera designed to transform your iOS smartphone into a professional-grade diagnostic tool. It allows you to visualize heat, detect hidden problems, and measure temperatures with precision. Ideal for a wide array of applications, from home inspections to automotive diagnostics, this device provides critical insights that are invisible to the naked eye.

2. What's in the Box

Your FLIR ONE Pro LT package includes the following components:

- FLIR ONE Pro LT Thermal Camera
- USB to USB-C Cable
- Storage Case

FLIR®

Carry case

USB to USB-C

2.7 × 1.3 × 0.6 in

Image: The FLIR ONE Pro LT thermal camera, its USB to USB-C charging cable, and the included protective storage case.

3. Setup

Follow these steps to set up your FLIR ONE Pro LT:

1. **Charge the Device:** Connect the FLIR ONE Pro LT to a power source using the provided USB to USB-C cable. The red indicator light will turn green and start blinking when it's ready for use. Charging typically takes 15-20 seconds for initial readiness.

2. **Download the FLIR ONE App:** Search for and download the official FLIR ONE app from the Apple App Store on your iOS smartphone.

3. **Connect to your Smartphone:** The FLIR ONE Pro LT connects directly to your iOS device via its Lightning Port. The OneFit adjustable connector allows for easy attachment, even if your phone has a case. **Note:** This model is not compatible with iPhone 15 and later models that use USB-C.

4. **Launch the App:** Open the FLIR ONE app. The app will guide you through any necessary initial calibration or settings.

Image: The FLIR ONE Pro LT device, showcasing its compact design and Lightning connector for direct attachment to iOS smartphones.

Image: The FLIR ONE Pro LT connected to an iPhone, demonstrating how the thermal camera integrates with the smartphone for real-time thermal imaging.

4. Operating Instructions

Once connected and the app is running, you can begin using your FLIR ONE Pro LT:

- **Thermal Imaging:** The camera captures high-resolution IR images with 1440x1080 visual resolution and 80x60 thermal resolution. It measures temperature within ±3°C or ±5% when the unit is within 15°C – 35°C and the scene is within 5°C – 120°C.

- **VividIR Processing:** Benefit from enhanced image resolution and accuracy thanks to FLIR's VividIR processing technology.

- **MSX Technology:** FLIR MSX (Multi-Spectral Dynamic Imaging) overlays key details from the visual camera onto the thermal image, providing added perspective and making it easier to identify problem areas.

- **Spot Temperature Measurement:** The app allows you to select specific points on the thermal image to display their exact temperature. You can set it to indicate hot spots or cold spots.

- **Image and Video Capture:** Use the app to capture thermal images (JPEG format) and videos for later analysis or sharing.

- **FLIR Ignite Cloud:** Directly upload, organize, and share images from your Wi-Fi connected FLIR camera to the FLIR Ignite Cloud service.

VividIR image processing for enhanced resolution and accuracy

1440 × 1080
-4F to 248F

OneFit Adjustable Connector allows for easy attachment over most phone cases

Image: A smartphone screen displaying the FLIR ONE app interface with a thermal image, highlighting the VividIR processing and OneFit adjustable connector.

5. Applications and Uses

The FLIR ONE Pro LT is a versatile tool with numerous applications:

- **Home Inspection:** Identify insulation weak spots, drafts, and potential water leaks in walls, ceilings, and floors.
- **HVAC Diagnostics:** Locate blockages in ductwork, verify proper heating/cooling distribution, and detect refrigerant leaks.
- **Electrical Inspections:** Pinpoint overheating electrical components, loose connections, and overloaded circuits in panels and wiring.
- **Plumbing:** Find hidden water pipes, detect leaks behind walls, and verify hot water circulation.
- **Automotive:** Diagnose engine overheating, identify brake issues, and check for electrical faults in vehicle systems.
- **Pest Control:** Locate nests or entry points of pests by detecting their body heat or areas of unusual temperature.
- **General Troubleshooting:** Useful for various tasks such as checking appliance temperatures, verifying heat transfer, and even monitoring the health of beehives.

6. Maintenance

To ensure the longevity and optimal performance of your FLIR ONE Pro LT, follow these maintenance guidelines:

- **Cleaning:** Gently wipe the camera lenses and device body with a soft, lint-free cloth. Avoid abrasive materials or harsh chemicals.
- **Storage:** When not in use, store the FLIR ONE Pro LT in its provided storage case to protect it from dust, dirt, and physical damage.
- **Connector Care:** Keep the Lightning connector clean and free of debris to ensure a reliable connection with your smartphone.
- **Durability:** The device is built to be jobsite tough and rated to withstand drops from 1.5 meters. However, avoid unnecessary impacts or extreme conditions.

7. Troubleshooting

If you encounter issues with your FLIR ONE Pro LT, consider the following common solutions:

Problem	Possible Cause / Solution
Device not connecting to phone	Ensure the FLIR ONE Pro LT is fully charged. Check that the Lightning connector is clean and securely inserted into your phone. Restart the FLIR ONE app or your phone.
Short battery life	The device's battery life is approximately 1-2 hours of continuous use. Ensure it is fully charged before extended use. Close other background apps on your phone to conserve its battery.
Image overlay/alignment issues	The camera may require adjustment based on the distance from the subject for proper overlay of the visual and thermal images. Try maintaining a consistent distance during a project.
App freezing or crashing	Ensure your FLIR ONE app is updated to the latest version. Close and reopen the app, or restart your smartphone.

8. Specifications

Feature	Detail
Model Name	FLIR ONE Pro LT iOS
Part Number	FLIR ONE Pro LT iOS (435-0012-03)
Compatibility	iOS devices with Lightning Port (Not compatible with iPhone 15 and later with USB-C)
Thermal Resolution	80x60
Visual Resolution	1440x1080
Temperature Accuracy	±3°C or ±5% (within 15°C – 35°C, scene 5°C – 120°C)
Item Weight	3.17 ounces
Product Dimensions	2.7 x 0.6 x 1.4 inches

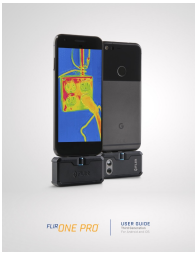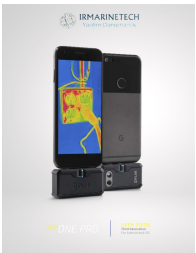| Feature	Detail
Power Source	Corded-electric (USB charging)
Battery Type	1 Lithium Polymer battery (included)
Material	Acrylonitrile Butadiene Styrene (ABS)
Supported File Format	JPEG
Certifications	MFi, RoHS, CE/FCC, CEC-BC, EN62133

9. Warranty and Support

Warranty: FLIR offers a unique 2-10 warranty for the FLIR ONE Pro LT, covering parts and labor for two years and the detector for ten years.

User Guides: For detailed information, you can access the official user guides:

- User Guide (PDF)
- User Manual (PDF)

Further Support: Visit the official FLIR store for additional product information, FAQs, and customer support resources: FLIR Store on Amazon

Related Documents - FLIR ONE Pro LT iOS

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.

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 Kx Series User's Manual
Explore the FLIR Kx series thermal imaging cameras with this official user manual. Get detailed insights into operation, safety protocols, technical specifications, and maintenance for the FLIR Kx and K2 models. Ideal for professionals in demanding environments, especially firefighting.

[FLIR C3-X Compact Thermal Camera - Specifications and Features](#)
Explore the FLIR C3-X, a compact and professional thermal camera for building, facilities maintenance, HVAC/R, and electrical repair. Learn about its features, specifications, and rugged design.

[FLIR iXX-Series App-Enabled Thermal Camera with LTE Datasheet](#)
Detailed specifications and features for the FLIR iXX-Series App-Enabled Thermal Camera with LTE, including IR resolution, sensitivity, FOV, applications, and physical data.

[FLIR ONE PRO LT Quick Start Guide for Android and iOS](#)
A quick start guide for the FLIR ONE PRO LT thermal camera, detailing setup, app usage, and key features for Android and iOS devices.