FLIR ONE Pro USB-C

FLIR One Pro Thermal Imaging Camera for Android (USB-C) User Manual

Model: ONE Pro USB-C | Brand: FLIR

Introduction

The FLIR One Pro is a thermal imaging camera designed to connect to Android smartphones via USB-C. It enables users to visualize heat patterns, detect temperature differences, and identify potential issues in various applications. This manual provides essential information for setting up, operating, and maintaining your FLIR One Pro.

Package Contents

- FLIR One Pro Thermal Imaging Camera
- Protective Case
- Charging Cable

The FLIR One Pro camera shown alongside its protective carrying case.

Setup

1. Charging the Device

Before initial use, fully charge your FLIR One Pro using the provided USB-C charging cable. The device has an independent battery.

2. App Installation

Download and install the official FLIR One app from the Google Play Store on your Android smartphone.

3. Connecting to Your Smartphone

Ensure the FLIR One Pro is charged and powered on (the LED indicator will turn green). Adjust the OneFit™ adjustable connector to fit your phone, especially if using a protective case. Plug the FLIR One Pro into your smartphone's USB-C port. The FLIR One app should launch automatically.

The FLIR One Pro attached to an Android smartphone, showing a thermal view of an electrical panel.

Detail of the FLIR One Pro, highlighting the adjustable USB-C connector for compatibility with various phone cases.

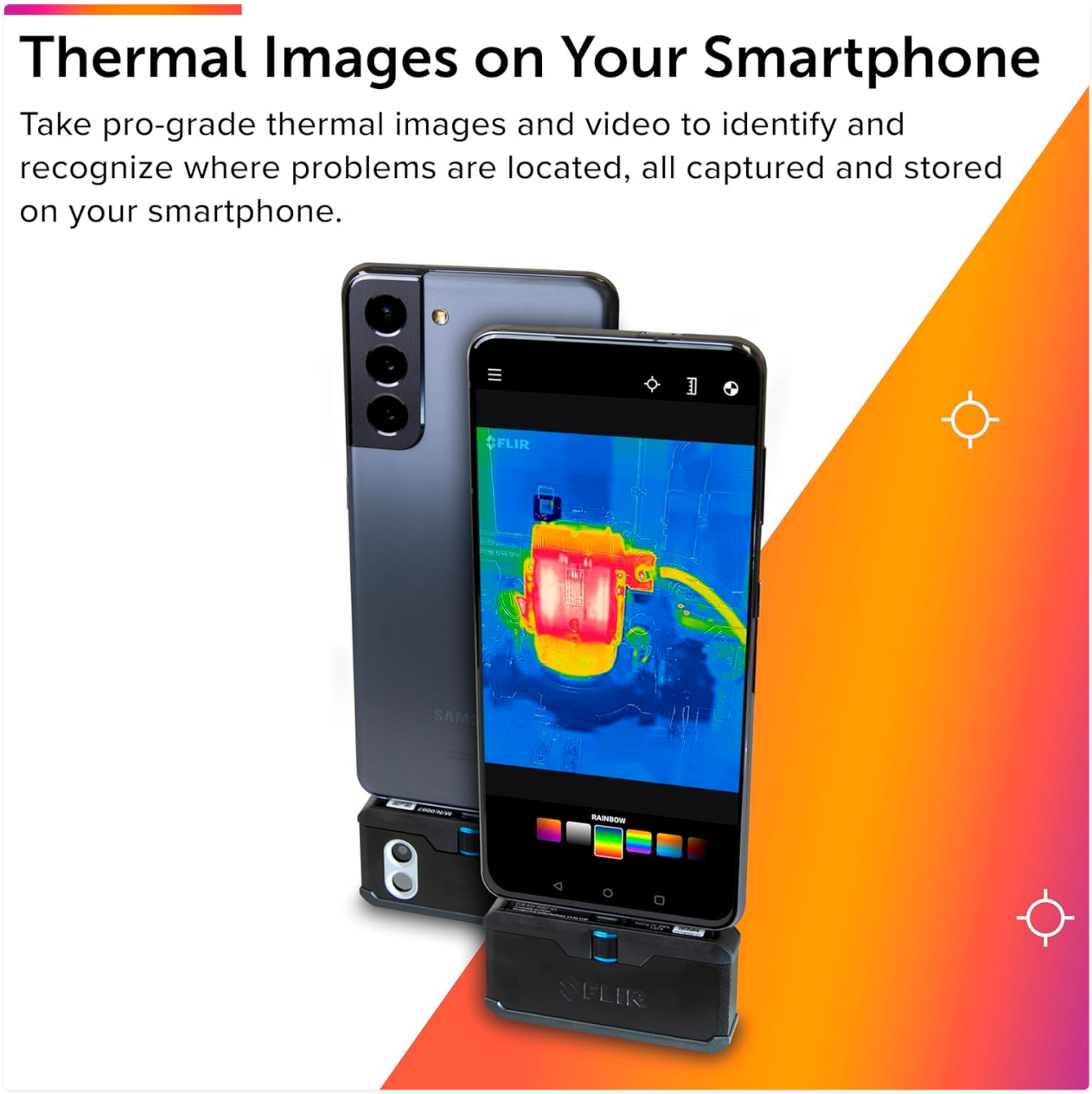
Operating the FLIR One Pro

Basic Operation

Once connected and the app is running, the camera will display a live thermal image on your smartphone screen. You can switch between different display modes and measurement tools within the app.

Capturing Images and Videos

Use the capture button within the app to take thermal images or record videos. Images are saved directly to your phone's gallery.

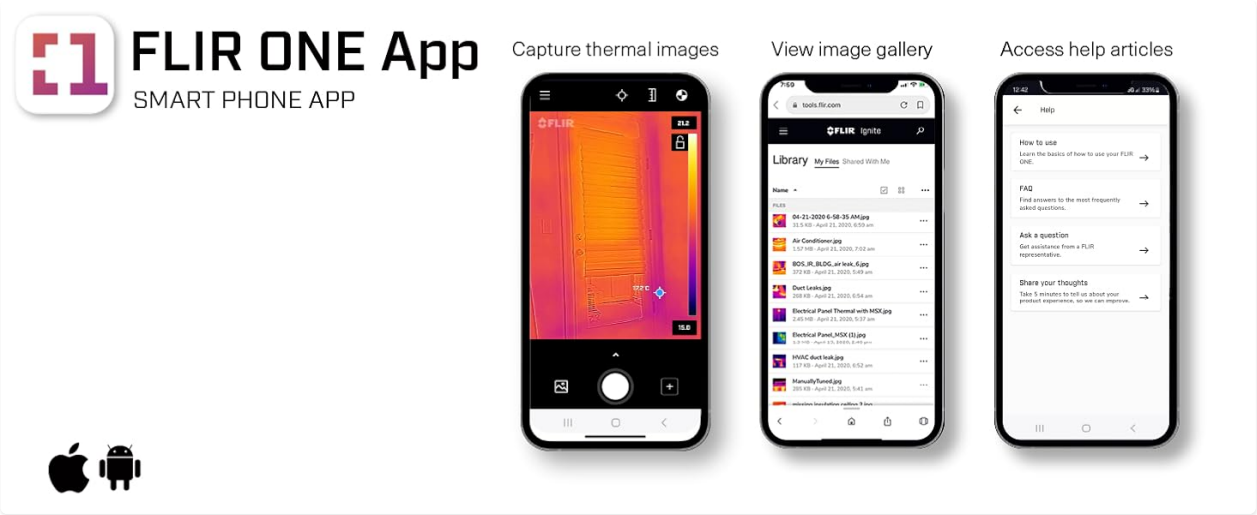


A smartphone screen showing multiple thermal images, demonstrating the camera's ability to capture and store visual data.

Key Features

Super Resolution with VividIR™

The FLIR One Pro utilizes VividIR™ technology to enhance the native 160x120 infrared resolution to 480x360, providing sharper and more detailed thermal images.



A side-by-side comparison illustrating the enhanced detail provided by VividIR Super Resolution versus native thermal resolution.

MSX® Technology

FLIR MSX® (Multi-Spectral Dynamic Imaging) technology overlays visual details from the camera's visible light sensor onto the thermal image. This enhances clarity and helps identify objects and text within the thermal scene.

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An official FLIR video demonstrating the benefits of MSX technology in thermal imaging, showing how visual details are integrated for clearer identification.

Wide Temperature Range and Sensitivity

The FLIR One Pro can measure temperatures from -20°C to 400°C (-4°F to 752°F) with a sensitivity that detects temperature differences down to 70 mK.

Jobsite Durability

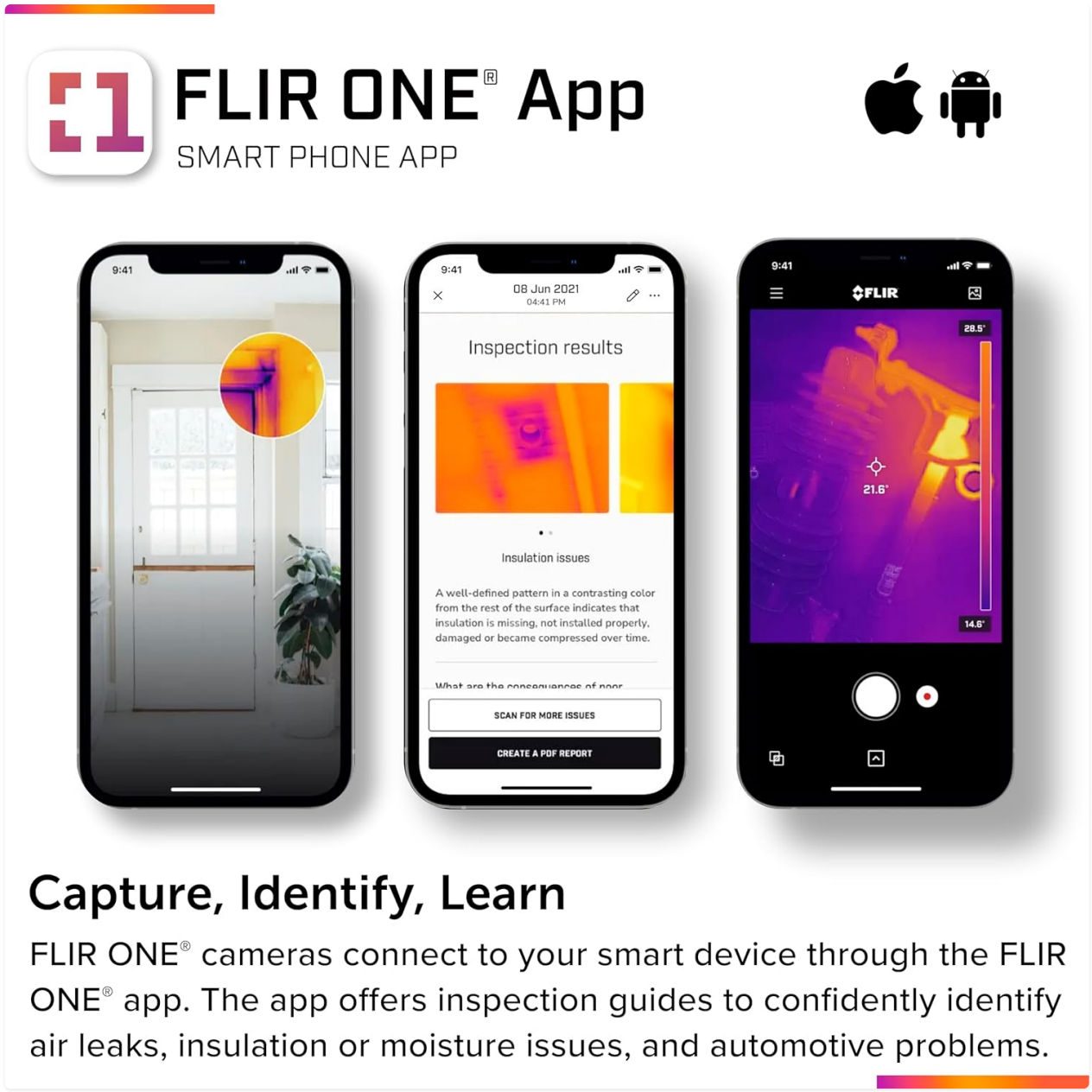
Designed to withstand demanding environments, the device is rated to survive drops from 1.5 meters (5.9 feet).

A user inspecting an electrical panel with the FLIR One Pro, emphasizing the device's robust construction for professional use.

Applications

The FLIR One Pro is a versatile tool suitable for various professional and personal applications, including:

- **Home Inspection:** Identifying air leaks, moisture buildup, insulation gaps, and electrical hot spots.
- **HVAC Troubleshooting:** Diagnosing heating and cooling system issues.
- **Electrical Inspections:** Detecting overheating components in electrical panels and wiring.
- **Automotive Diagnostics:** Pinpointing heat-related problems in vehicles.
- **Plumbing:** Locating hot water pipes or leaks behind walls.



The FLIR One App interface, showcasing its inspection guides for identifying common issues like air leaks and moisture.

Your browser does not support the video tag.

An official FLIR video demonstrating the FLIR One Pro's use in various Android applications, including inspections and diagnostics.

Maintenance

Cleaning

Gently wipe the camera lenses and device exterior with a soft, lint-free cloth. Avoid abrasive materials or harsh chemicals.

Storage

Store the FLIR One Pro in its protective case when not in use to prevent damage.

Troubleshooting

Device Not Connecting

- Ensure the FLIR One Pro is fully charged and powered on.
- Verify the FLIR One app is installed and up to date.
- Check the USB-C connection for proper seating. Adjust the OneFit™ connector if necessary.
- Restart your smartphone and the FLIR One app.

Image Quality Issues

- Ensure the camera lenses are clean and free of smudges or dust.
- Allow the camera to stabilize for a few seconds after connecting.
- Check app settings for resolution and image enhancement options (e.g., MSX, VividIR).

Specifications

Feature	Detail
Product Dimensions	0.55 x 2.68 x 1.34 inches
Item Weight	1.38 ounces
Item model number	ONE Pro USB-C
Batteries	1 Lithium Ion batteries required. (included)
Macro Focus Range	15 - Infinity Centimeters
Shooting Modes	automatic/manual
Exposure Control Type	automatic/manual
Color	Black
Video Capture Resolution	1440x1880
Thermal Resolution	160x120 (480x360 Super Resolution)
Temperature Range	-20°C to 400°C (-4°F to 752°F)
Drop Rating	1.5 meters

Warranty and Support

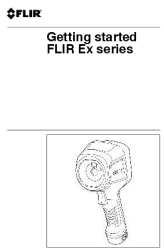
Warranty Information

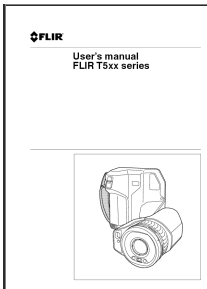
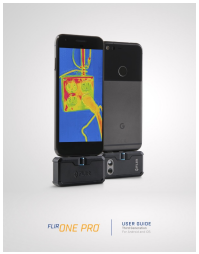
For detailed warranty information, please refer to the documentation included with your product or visit the official FLIR website.

Customer Support

For technical assistance or support, please contact FLIR customer service through their official website or the FLIR One app.

Related Documents - ONE Pro USB-C

	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 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 Cx Series User's Manual User's manual for the FLIR Cx series thermal camera, covering setup, operation, image modes, measurement, saving, uploading, and device settings.

	[FLIR T5xx Series User Manual - Comprehensive Guide] Explore the FLIR T5xx Series User Manual for detailed instructions, safety information, and operational guidance on FLIR's advanced thermal imaging cameras. Learn about features, settings, and maintenance.
	[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.