FLIR*ONE* PRO

The FLIR ONE Pro gives you the power to find invisible problems faster than ever. Combining a higher-resolution thermal sensor able to measure temperatures up to 400 °C (752 °F)with powerful measurement tools and report generation capability, the FLIR ONE Pro will work as hard as you do. Its revolutionary VividIR™ image processing lets you see more details and provide your customers with proof that you solved their problem right the first time. The updated design includes the revolutionary OneFit™ adjustable connector to fit your phone, without taking the phone out of its compatible protective case. An improved FLIR ONE app lets you measure multiple temperatures or regions of interest at once and stream to your smartwatch for remote viewing. Whether you're inspecting electrical panels, looking for HVAC problems, or finding water damage, the new FLIR ONE Pro is a tool no serious professional should be without.

VividIR IMAGE PROCESSING

See It & Solve It - Sharpest Mobile Thermal Imaging Performance Lets You Detect Problems with Precision and Accuracy, then Document Your Fix for the Customer

- Most advanced image resolution enhancement detects the thermal details you need to find problems fast

- With 160 x 120 thermal resolution, FLIR ONE Pro uses FLIR's highest resolution micro thermal camera and can measure temperatures as high as 400 °C (752 °F)

- FLIR MSX® embosses visible edges from the 1440 x 1080 HD camera onto thermal imagery to create a sharper, easier to understand picture

OneFit CONNECTOR

Leave Your Case On - Adjustable Connector Means You Don't Have to Choose Between Thermal Vision and Safeguarding Your Device when Using Compatible Protective Cases

- Adjust length of USB-C and Lightning connector up to an additional 4 mm

- Reversible connectors for Android and iOS

- Secure the FLIR ONE to your mobile device while keeping your phone safe

HARD-WORKING APP

Work Like a Pro - Work-Based Features Include Advanced Capabilities for More Professional Problem Solving and Functionality

- Use multiple real-time spot meters and regions of interest

- Access real-time thermal tips and tricks in the FLIR ONE app followed by professional reporting through FLIR Tools

- See around corners and in awkward spaces by connecting to your Apple Watch or Android smartwatch

◆FLIR® | The World's Sixth Sense®

Specifications

General	FLIR One Pro
Certifications	MFi (iOS version), RoHS, CE/FCC, CEC-BC, EN61233
Operating temperature	0 °C – 35 °C (32 °F to 95 °F) , battery charging 0 °C to 30 °C (32 °F to 86 °F)
Non-operating temperature	-20 °C to 60 °C (-4 °F to 140 °F)
Size	68mm W x34mm H x14mm D (2.7in x 1.3in x .6in)
Weight	36.5g
Mechanical shock	Drop from 1.8m (5.9ft)

Video	
Thermal and visual cameras with MSX	
Thermal sensor	Pixel size 12µM, 8 – 14µM spectral range
Thermal resolution	160x120
Visual resolution	1440x1080
HFOV / VFOV	55 ° ± 1 ° / 43 ° ± 1 °
Frame rate	8.7Hz
Focus	Fixed 15cm – Infinity

Radiometry	
Scene dynamic range	-20 °C to 400 °C (-4 °F to 752 °F)
Accuracy	±3 °C (5.4 °F) or ±5%, typical Percent of the difference between ambient and scene temperature. Applicable 60s after start-up when the unit is within 15 °C to 35 °C (59 °F to 95 °F) and the scene is within 5 °C to 120 °C (41 °F to 248 °F)
Thermal sensitivity (MRTD)	150mK
Emissivity settings	Matte: 95%, Semi-Matte: 80%, Semi-Glossy: 60%, Glossy: 30% Reflected background temperature is 22 °C (72 °F)
Shutter	Automatic/Manual

Power	
Battery life	Approximately 1h
Battery charge time	40min

Interfaces	
Video	Male Lightning (iOS), Male USB-C (Android)
Charging	Female USB-C (5V/1A)

App	
Video and still image display/capture	Saved as 1440x1080
File formats	Photo – radiometric jpeg Video – MPEG-4 (file format MOV (iOS), MP4 (Android))
Capture modes	Video, Photo, Time lapse
Palettes	Gray (white hot), Hottest, Coldest, Iron, Rainbow, Contrast, Arctic, Lava and Wheel.
Spot meter	Off / °C / °F. Resolution 0.1 °C / 0.1 °F
Adjustable MSX distance	0.3m – Infinity
Battery charge monitor	0 – 100%

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