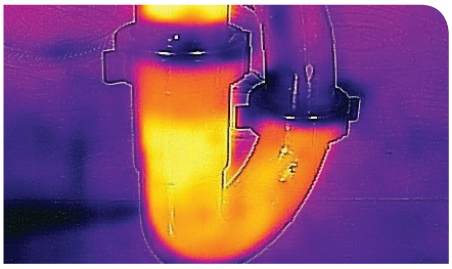
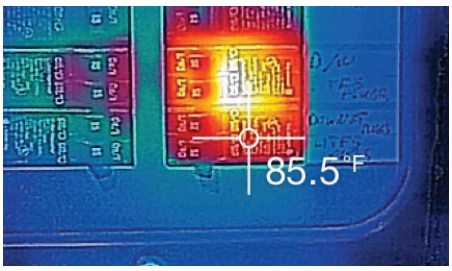
FLIR ONE™

for Android / iOS

FLIR ONE™ is a compact thermal imager that detects invisible heat energy, allowing users to "see" and measure subtle changes in temperature. With separate models for Android and iOS devices, FLIR ONE attaches to smartphones and tablets via micro-USB (Android) or a lightning connector (iOS) and displays thermal images on the device's screen. Powered by Lepton—FLIR's smallest thermal camera module—FLIR ONE offers valuable solutions, like spotting energy leaks at home, locating a missing pet at night, or seeing in complete darkness. The device also includes a visible CMOS camera, which enables the use of FLIR's patented MSX® technology.





THERMAL CAMERA ATTACHMENT FOR MOBILE DEVICES

Quick plug-and-play operation

- Connects to Android and iOS smartphones and tablets equipped with micro USB ports (Android) or lighting connectors (iOS)
- Generates 160 x 120 thermal video resolution
- Advanced spot measurement detects temperature differences as small as 0.18°F (0.1°C)
- Multi-Spectral Dynamic Imaging (MSX®) enhances thermal image detail

SIMPLE TO USE

Intuitive control with FLIR ONE App

- Auto shutter eliminates need to manually reset thermal sensor
- Includes nine different color palettes
- Record video and still images with common touchscreen gestures
- Easily share photos and video on popular social media channels

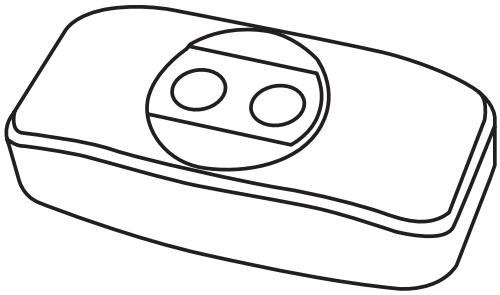
MULTIPLE APPLICATIONS

From home improvement and personal safety to art

- Improve energy efficiency by pinpointing heat loss and water leaks
- Monitor pet health and safety
- Save time and money by locating car problems
- Observe wildlife while hiking or camping
- Create artistic thermal images using FLIR ONE Panorama™, FLIR ONE TimeLapse™, and FLIR ONE CloseUp™

Specifications

General	
Certifications	MFi (iOS version), RoHS, CE/FCC, CEC-BC, EN61233
Operating temperature	0°C to 35°C (32°F to 95°F) Battery charging 0°C to 30°C (32°F to 86°F)
Non-operating temperature	0°C to 35°C
Size	WxHxD = 65x29x18mm
Weight	32g
Mechanical Shock	Drop from 1.5m (≈5ft.)
Imaging and Optical Data	
Thermal and visual cameras with MSX	
Thermal Sensor	12µm pixel size, 8 – 14 µm spectral range
Thermal resolution	160x120
Visual resolution	640x480
Horizontal Field of View	Horizontal 46° ± 1°/ Vertical 35° ± 1°
Frame rate	8.7Hz
Focus	Fixed 15cm - Infinity
Measurement	
Temperature Range	-20°C to 120°C (-4°F to 248°F)
Accuracy	±3°C or ±5% 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).
Emissivity settings	Matte: 95%, Semi-Matte: 80%, Semi-Glossy: 60%, Glossy: 30%
MRDT	150mK
Shutter	Automatic/Manual
Power	
Battery life	1h
Battery charge time	40min
iOS device charging	Pass-through using micro-USB
Android device charging	No pass-through charging
Interfaces	
iOS device	Male Lightning
Android device	Male micro USB
Charging	Female micro USB (5V/1A)
App	
Video and still image display/capture	Saved as 640x480
File formats	Still images – radiometric jpeg Video – MPEG-4
Capture modes	Video, Still image, Time lapse and Panorama
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



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