TELEDYNE FLIR

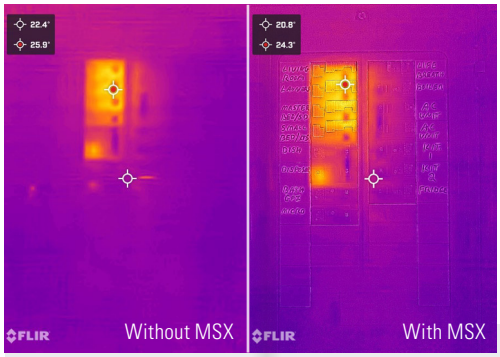
B&L EST. 1947

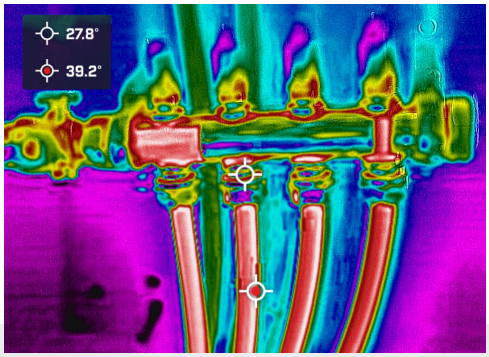
PRO-GRADE THERMAL CAMERAS FOR iOS® AND ANDROID™ SMARTPHONES

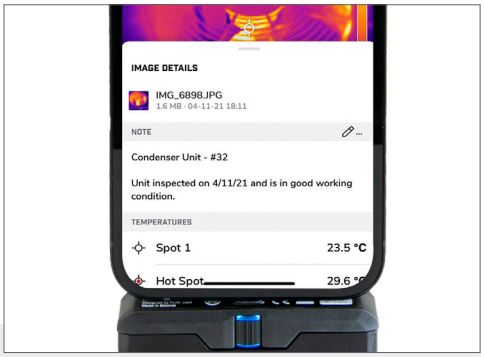
FLIR ONE® PRO-SERIES

The FLIR ONE Pro-Series are affordable smartphone attachment thermal imaging cameras designed to help professionals find problems faster and get more work done in less time. These lightweight, pocket-sized inspection tools allow users to see and measure temperature differences accurately and from a safe distance, making it easier to detect and diagnose issues. With unique image-enhancement features including FLIR VividIR™ and MSX® (Multi-Spectral Dynamic Imaging), the FLIR ONE Pro and Pro LT provide best-in-class thermal imagery. FLIR ONE Pro-Series cameras also provide a OneFit™ connector that adjusts and extends up to 4 mm to fit many popular protective cases. Whether inspecting electrical panels, looking for HVAC problems, or finding water damage, FLIR ONE Pro-Series thermal imaging cameras enable users of all experience levels to work efficiently while on-the-go.

flir.com/flironepro







PROFESSIONAL IMAGE QUALITY

Detect problems with precision using the FLIR ONE Pro-Series' image enhancement features including VividIR and MSX

- Take crisp thermal images with VividIR, which combines multiple image frames to deliver one sharper, final image
- Easily recognize where problems are located and identify targets with MSX, which enhances thermal images by embossing visual details from the 1440 × 1080 HD camera onto the thermal image
- Capture images with solid thermal contrast; FLIR ONE Pro provides thermal sensitivity of 70 mK while FLIR ONE Pro LT provides 100 mk sensitivity

TEMPERATURE ACCURACY

Get reliable results from the FLIR ONE Pro LT or upgrade to the FLIR ONE Pro for a wider temperature range and improved sensitivity

- Troubleshoot faster with 160 × 120 (19,200 pixels) thermal resolution using the FLIR ONE Pro and 80 × 60 (4,800 pixels) using the FLIR ONE Pro LT
- Quickly see both the hottest and coldest spots in a scene
- Measure temperatures up to 400°C (752°F) with the FLIR ONE Pro

FLEXIBLE REPORTING TOOLS

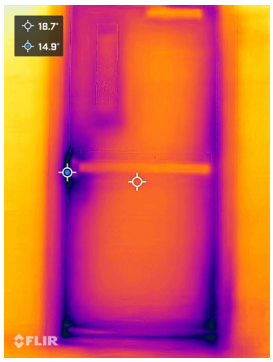
Improve workflow using the sleek, intuitive FLIR ONE mobile app without ever leaving the job site

- Capture, store, and edit images; add notes, and easily share data with team members and customers using the improved FLIR ONE Pro app
- Create professional reports quickly using FLIR Thermal Studio desktop software
- Conveniently access a wide variety of compatible FLIR ONE mobile apps (developed using FLIR mobile SDK)

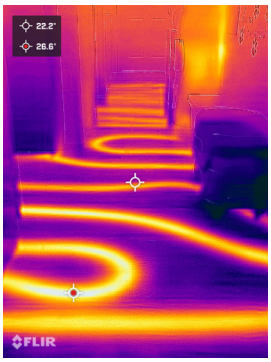
SPECIFICATIONS

Specifications by product	FLIR ONE Pro LT	FLIR ONE Pro
Thermal pixel size	17 µm	12 µm
Thermal resolution	4,800 pixels (80 × 60)	19,200 pixels (160 × 120)
Thermal sensitivity	100 mK	70 mK
Object temperature range(s)	-20°C to 120°C (-4°F to 248°F)	-20° to 120°C (-4°F to 248°F) 0°C to 400°C (32°F to 752°F)
Common features		
Certifications	MFi (iOS version), RoHS, CE/FCC, CEC-BC, EN62133	
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	-20°C to 60°C (-4°F to 140°F)	
Size (w × h × d)	68 × 34 × 14 mm (2.7 × 1.3 × 0.6 in)	
Weight (incl. battery)	36.5 g	
Drop tested	Drop from 1.8 m (5.9 ft)	
Optical data		
Spectral range	8 – 14 µm	
Visual resolution	1440 × 1080	
HFOV / VFOV	50° ±1° / 43° ±1°	
Frame rate	8.7 Hz	
Focus	Fixed 15 cm – infinity	
Measurement		
Accuracy	±3°C (5.4°F) or ±5%, typical percent of the difference between ambient and scene temperature. Applicable 60 sec 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 correction	Matte, Semi-Matte, Semi-Glossy, Glossy	
Measurement correction	Emissivity; Reflected apparent temperature (22°C / 72°F)	
Shutter	Automatic/Manual	
Power		
Battery life	Approximately 1 hr	
Battery charge time	40 min	

Interfaces	
Video	Male Lightning (iOS), Male USB-C (Android)
Charging	Female USB-C (5V/1A)
App	
Image presentation modes	Infrared, visual, MSX®
VividIR	Yes
Palettes	Gray (white hot), Hottest, Coldest, Iron, Contrast, Arctic, Lava, and Color Wheel
Video and image capture	Video and photo, saved as 1440 × 1080
File formats	Radiometric JPG, MPEG-4 (file format MOV (iOS), MP4 (Android))
Spot measurements	Hottest, Coldest, and 3 spot measurement
Adjustable MSX distance	0.3 m – infinity
Visual battery indicator	0-100%



Coldest spot



Hottest spot

Specifications are subject to change without notice.
For the most up-to-date specs, go to www.teledyneflir.com

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Butler & Land Technologies

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