

**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](http://flir.com/flironepro)



## PROFESSIONAL IMAGE QUALITY

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

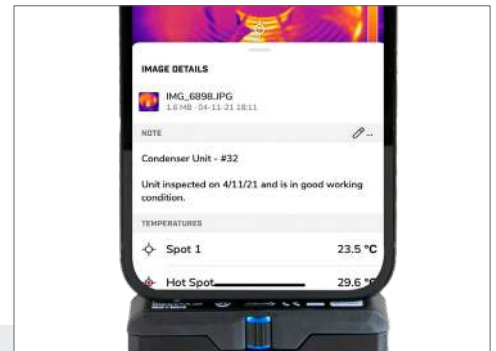
- Take crisp thermal images with VividIR, which combines multiple image frames to deliver one sharper, final image
- Easily recognize where problems are located and identify targets with MSX, which enhances thermal images by embossing visual details from the 1440 x 1080 HD camera onto the thermal image
- 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 x 120 (19,200 pixels) thermal resolution using the FLIR ONE Pro and 80 x 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)

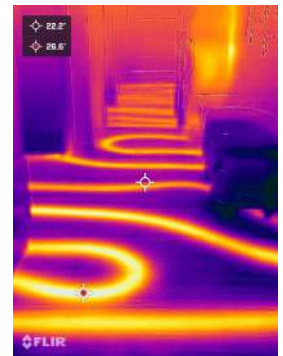
## SPECIFICATIONS

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)
<b>Common features</b>		
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)	
<b>Optical data</b>		
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	
<b>Measurement</b>		
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	
<b>Power</b>		
Battery life	Approximately 1 hr	
Battery charge time	40 min	

<b>Interfaces</b>	
Video	Male Lightning (iOS), Male USB-C (Android)
Charging	Female USB-C (5V/1A)
<b>App</b>	
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](http://www.teledyneflir.com)

**WILSONVILLE**  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
PH: +1 877.773.3547

**NASHUA**  
9 Townsend West  
Nashua, NH 03063  
USA  
PH: +1 866.477.3687

**LATIN AMERICA**  
Av. Antonio Bardella, 320  
Sorocaba, SP 18085-852  
Brasil  
PH: +55 15 3238 8070

**CANADA**  
103-3430 South Service Road  
Burlington, ON L7N 3T9  
Canada  
PH: +1 800.613.0507

[www.teledyneflir.com](http://www.teledyneflir.com)

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