



HANDHELD THERMAL CAMERAS FOR CONDITION MONITORING & BUILDING DIAGNOSTICS



Specifications	Mobile			Compact			Industrial			Scalable				Professional				High-Performance									
Model	FLIR ONE PRO	FLIR ONE EDGE	FLIR ONE EDGE PRO	C5	C8	Cx5 [ATEX]	E5 PRO	E6 PRO	E8 PRO	i34	i35	i64	i65	E54	E76	E86	E96	T530	T540	T560	T840	T865	T1010	T1020			
Key Value	App-enabled thermal camera for smartphones			Pocket-sized, self-contained thermal camera for troubleshooting		For hazardous locations	Easy to use thermal camera that can work all day			Scalable, app-enabled thermal camera that simplifies workflow & supports inexperienced users				Routing-enabled thermal camera for professional thermographers				Ergonomic, high performance, routing-enabled thermal camera for industrial applications						Highest-level thermal imaging performance and ergonomics			
IR resolution	160 × 120	80 × 60	160 × 120	160 × 120	320 × 240	160 × 120	160 × 120	240 × 180	320 × 240	240 × 320		480 × 640		320 × 240		464 × 348	640 × 480	320 × 240	464 × 348	640 × 480	464 × 348	640 × 480	1024 × 768	1024 × 768			
Resolution with UltraMax®	N/A			N/A			N/A			N/A				NA	307,200 pixels	645,888 pixels	1.2 MP	307,200 pixels	645,888 pixels	1.2 MP	645,888 pixels	1.2 MP	3.1 MP				
Object temperature range	-20°C to 400°C (-4°F to 752°F) in two ranges	-20°C to 120°C (-4°F to 248°F)	-20°C to 400°C (-4°F to 752°F) in two ranges	-20°C to 400°C (-4°F to 752°F)	-20°C to 450°C (-4°F to 842°F)	-20°C to 400°C (-4°F to 752°F)	-20°C to 400°C (-4°F to 752°F) in two ranges	-20°C to 550°C (-4°F to 1022°F) in two ranges	-20°C to 550°C (-4°F to 1022°F) in two ranges	-20°C to 450°C (-4°F to 842°F) in two ranges	-20°C to 550°C (-4°F to 1022°F) in two ranges			-20°C to 650°C (-4°F to 1202°F) in two ranges	-20°C to 650°C (-4°F to 1202°F) in two ranges/ optional 300°C to 1000°C (572°F to 1832°F)	-20°C to 1500°C (-4°F to 2732°F) in three ranges	-20°C to 650°C (-4°F to 1202°F) in two ranges / optional 300°C to 1200°C (572°C to 2192°F)	-20°C to 1500°C (-4°F to 2732°F) in three ranges	-20°C to 1500°C (-4°F to 2732°F) in three ranges	-20°C to 1500°C (-4°F to 2732°F) in three ranges	-40°C to 2000°C (-40°F to 3632°F) in three ranges	-40°C to 650°C (-40°F to 1202°F) in two ranges	-40°C to 2000°C (-40°F to 3632°F) in three ranges				
Routing with Reference Image	No			No			No			Assetlink Required				Yes				Yes						No			
App-enabled	Yes			No			No			Yes - Flir ACE Ecosystem				No				No									
Field of view (FOV)	55° × 43°	54° × 42°		54° × 42°			33° × 25°			38° × 49°				24° × 18° (fixed)	42° × 32° (10 mm lens), 24° × 18° (17 mm lens), 14° × 10° (29 mm lens), 80° × 63° (5 mm lens), 24° × 18°/14° × 10° (17/29 mm DFOV lens), 42° × 32°/24° × 18° (10/17 mm DFOV lens)			42° × 32° (10 mm lens), 24° × 18° (17 mm lens), 14° × 10° (29 mm lens), 80° × 63° (5 mm lens), 24° × 18°/14° × 10° (17/29 mm DFOV lens), 42° × 32°/24° × 18° (10/17 mm DFOV lens)						45° × 34° (21.2 mm lens), 28° × 21° (36 mm lens), 12° × 9° (83.4 mm lens), 7° × 5.3° (142 mm lens)			
Meterlink®	No			No			No			Meterlink App				Yes				Yes						No			
Over-the-air updates	No			Yes			Yes			Yes				Yes				Yes						No			
1-Touch Level/Span	No			Yes			Yes			Yes				Yes				Yes									
Laser pointer	No			No			No			Yes				Yes				Yes									
Built-in GPS	No			No			No			Yes				Yes				Yes						No	Yes		
Laser area measurement	No			No			No			No				No		Yes, on screen		Yes						No			
Thermal sensitivity	<70 mK			<70 mK			<60 mK	<50 mK	<40 mK	<40 mK				<40 mK				<40 mK						<25 mK		<20 mK	
Accuracy	±5% of reading			±3% of reading	±2% of reading	±3% of reading	±2% of reading			±2% of reading				±2% of reading				±2% of reading						±1°C (±1.8°F) or ±2% of reading	±2% of reading	±1°C (±1.8°F) or ±2% of reading	
Image frequency	8.7 Hz			8.7 Hz			8.7 Hz			30 Hz				30 Hz				30 Hz									
Focus	Focus free			Focus free			Focus free			Focus free				Manual	Continuous LDM, One-shot LDM, One-shot contrast, manual			Continuous LDM, One-shot LDM, One-shot contrast, manual						One-shot, manual			
Image modes	Infrared, Visual, MSX®			Infrared, Visual, MSX, Picture-in-picture			Infrared, Visual, MSX, Picture-in-picture			Infrared, Visual, MSX, Picture-in-picture				Infrared, Visual, MSX*, Picture-in-picture				Infrared, Visual, MSX*, Picture-in-picture								Infrared, Visual, MSX	Infrared, Visual, MSX, Picture-in-picture
Measurement tools	Hottest, coldest; 3 spot measurements			Center spot, box with max/min			Center spot, box with min/max, Delta T			Center spot, box with min/max, Delta T				Center spot, hot spot, cold spot, 3 spots, hot spot- spot**	3 spotmeters, 3 area boxes (max/min), hot spot, cold spot, User Presets (1 & 2), Delta T			3 spotmeters, 3 area boxes (max/min), hot spot, cold spot, User Presets (1 & 2), Delta T						10 spotmeters, 5 area boxes (max/ min), hot spot, cold spot, User Presets (1 & 2), Delta T	10 spotmeters, 5 area boxes (max/ min), hot spot, cold spot, User Presets (1 & 2), Delta T	10 spotmeters, 5+5 area boxes (max/ min/ avg.), profile (max/ min), hot spot, cold spot, User Presets (1 & 2), Delta T	
Video recording and streaming	No			No			Radiometric and non-radiometric over USB-C (requires Flir Thermal Studio software)			No				Radiometric, non-radiometric, and visual video recording to memory card or streaming over Wi-Fi				Radiometric, non-radiometric, and visual video recording to memory card or streaming over USB video class (UVC) and Wi-Fi						Radiometric, non-radiometric, and visual video recording to memory card or streaming over USB	Radiometric, non- radiometric, and visual video recording to memory card or streaming over USB and Wi-Fi		
Communication interfaces	Lightning (iOS) or USB-C	Wi-Fi		USB-C, Wi-Fi, Bluetooth®			USB-C, Wi-Fi, Bluetooth			USB-C, Wi-Fi, Bluetooth	USB-C, Wi-Fi, Bluetooth, LTE Cellular	USB-C, Wi-Fi, Bluetooth	USB-C, Wi-Fi, Bluetooth, LTE Cellular	USB-C, DisplayPort, Wi-Fi, and Bluetooth				USB 2.0, DisplayPort, Wi-Fi, and Bluetooth						USB Micro-B, HDMI	USB Micro-B, Wi-Fi, Bluetooth, HDMI		
Touchscreen	No			3.5 in (8.9 cm)			3.5 in (8.9 cm)			5 in (12.7 cm)				4 in (10.2 cm)				4 in (10.2 cm)								4.3 in (10.9 cm)	
Text, image sketch	No			Touch keyboard for text only			Touch keyboard for text only			App Dependent				Yes				Yes						No	Yes		
Voice annotation	No			No			No			App Dependent				Yes				Yes						No	Yes		

*not available with 6°, 80°, or macro lenses
**Hot spot to center spot Delta measurement
Specifications subject to change. For the most up-to-date specifications, please visit [Flir.com](https://www.flir.com).

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