



HANDHELD THERMAL CAMERAS FOR CONDITION MONITORING & BUILDING DIAGNOSTICS



Specifications	Mobile			Compact				Industrial			Scalable				Professional					High-Performance							
Model	FLIR ONE PRO	FLIR EDGE	FLIR EDGE PRO	C3-X	C5	C8	Cx5 (ATEX)	E5 PRO	E6 PRO	E8 PRO	i34	i35	i64	i65	E52	E54	E76	E86	E96	T530	T540	T560	T840	T865	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 (native resolution) 480 × 360 (super resolution)	80 × 60 (native resolution) 240 × 180 (super resolution)	160 × 120 (native resolution) 480 × 360 (super resolution)	128 × 96	160 × 120	320 × 240	160 × 120	160 × 120	240 × 180	320 × 240	240 × 320		480 × 640		240 × 180	320 × 240		464 × 348		640 × 480		320 × 240	464 × 348	640 × 480	464 × 348	640 × 480	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 300°C (-4°F to 572°F)	-20°C to 400°C (-4°F to 752°F)	-20°C to 450°C (-4°F to 842°F) in two ranges	-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 120°C (-4°F to 248°F); 0°C to 550°C (32°F to 1022°F)	-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 2000°C (-40°F to 3632°F) in three 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°		53.6°	54° × 42°	35° × 27°	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					Yes		
Laser area measurement	No			No				No			No				No		Yes, on screen		Yes					No			
Thermal sensitivity	<70 mK			<70 mK		<50 mK	<70 mK	<60 mK	<50 mK	<40 mK	<40 mK				<50 mK	<40 mK				<40 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	±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, 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+5 area boxes (max/min/ avg.), profile (max/ min), hot spot, cold spot, User Presets (1 & 2), Delta T		
Video recording and streaming	Yes			Radiometric and non-radiometric over USB-C (requires Flir Thermal Studio software)				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 and Wi-Fi		
Communication interfaces	Lightning 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, 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					Yes		
Voice annotation	No			No				No			App Dependent				Yes					Yes					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.

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