



# HANDHELD THERMAL CAMERA MATRIX



Specifications	Mobile		Compact		Industrial				Point & Shoot				Professional				High-Performance										
Model	FLIR ONE Pro LT	FLIR ONE Pro	C3-X	C5	TG165-X	TG275	TG267	TG297	E4	E5-XT	E6-XT	E8-XT	E54	E76	E86	E96	T530	T540	T560	T840	T865	T1010	T1020				
IR resolution	80 x 60 (4,800 pixels)	160 x 120 (19,200 pixels)	128 x 96 (12,288 pixels)	160 x 120 (19,200 pixels)	80 x 60 (4,800 pixels)	160 x 120 (19,200 pixels)			80 x 60 (4,800 pixels)	160 x 120 (19,200 pixels)	240 x 180 (43,200 pixels)	320 x 240 (76,800 pixels)	320 x 240 (76,800 pixels)	320 x 240 (76,800 pixels)	464 x 348 (161,472 pixels)	640 x 480 (307,200 pixels)	320 x 240 (76,800 pixels)	464 x 348 (161,472 pixels)	640 x 480 (307,200 pixels)	464 x 348 (161,472 pixels)	640 x 480 (307,200 pixels)	1024 x 768 (786,432 pixels)					
UltraMax® resolution	-		-		-				-				-	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					
M5X® image enhancement	Yes		Yes		Yes				Yes				Yes				Yes										
Color viewfinder	-		-		-				-				-				-		-	Yes	Yes	-	Yes	-	Yes		
Thermal sensitivity	<0.1°C	<0.07°C	<0.07°C		<0.07°C				<0.15°C	<0.10°C	<0.06°C	<0.05°C	<0.04°C	<0.03°C				<0.03°C									
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)		At ambient temp. 15°C to 35°C (59°F to 95°F) and object temp. above 0°C (32°F), 0°C to 100°C (32°F to 212°F): ±3°C (±5.5°F); 100°C to 300°C (212°F to 572°F): ±3%		At ambient temp. 15°C to 35°C (59°F to 95°F) and object temp. above 0°C (32°F), 0°C to 100°C (32°F to 212°F): ±3°C (±5.5°F); 100°C to 400°C (212°F to 752°F): ±3%		50°C to 100°C (122°F to 212°F), acc. ±1.5°C (±3°F); 50°C to 100°C (122°F to 212°F) and 100°C to 300°C (212°F to 572°F), acc. ±2.5°C (±5°F); -25°C to 0°C (-13°F to 32°F), acc. ±3°C (±7°F)		±1.5°C (2.7°F) for temperatures 50°C to 100°C (122°F to 212°F) Up to ±3°C (±5.4°F) for temperatures -25°C to 50°C (-13°F to 122°F) Up to ±3°C (±5.4°F) for temperatures 100°C to 550°C (212°F to 1022°F)		-25°C to 50°C (-13°F to 122°F): up to ±3°C (±7°F) 50 to 100°C (122 to 212°F): ±1.5°C (±3°F) or ± 1.5% whichever is greater 100°C to 380°C (212°F to 716°F): ±2.5°C (±6°F) or ± 2.5% whichever is greater		±2°C (±3.6°F) or ±2% of reading for ambient temperature 10°C to 35°C (50°F to 95°F) and object temperature above 0°C (32°F)				±2°C (±3.6°F) or ±2% of the reading				±2°C (±3.6°F) or ±2% - within entire operating temperature range, with all lenses						
Temperature range	-20°C to 120°C (-4°F to 248°F)	-20°C to 400°C (-4°F to 752°F)	-20°C to 300°C (-4°F to 572°F)	-20°C to 400°C (-4°F to 752°F)	-25°C to 300°C (-13°F to 572°F)	-25°C to 550°C (-13°F to 1022°F)	-25°C to 380°C (-13°F to 716°F)	-25°C to 1030°C (-13°F to 1886°F)	-20°C to 250°C (-4°F to 482°F)	-20°C to 400°C (-4°F to 752°F)	-20°C to 550°C (-4°F to 1022°F)			-20°C to 650°C (-4°F to 1,202°F)	-20°C to 1,500°C (-4°F to 2,732°F)		-20°C to 650°C (-4°F to 1,202°F)		-20°C to 1,500°C (-4°F to 2,732°F)		-40°C to 2,000°C (-40°F to 3,632°F)	-40°C to 650°C (-40°F to 1,202°F)	-40°C to 2000°C (-40°F to 3,632°F)				
Focus modes	Focus free		Focus free		Focus free				Focus free				Manual	Continuous laser distance meter (LDM), one-shot LDM, one-shot contrast, manual				Continuous laser distance meter (LDM), one-shot LDM, one-shot contrast, manual									
Field of view	50° x 38°	55° x 43°	54° x 42°		51° x 66°				57° x 44°				45° x 34°				24° x 18°	Lens dependent				Lens dependent					
Available lenses	-		-		-				-				-				14°, 24°, 42°, and 2x Macro lenses				6°, 14°, 24°, 42°, and 2x Macro lenses						
Measurement tools	Spotmeter		Spotmeter (center spot), area box (max/min)		Center spot on/off				Spotmeter (center spot)	Spotmeter (center spot), area box (max/min)	Spotmeter (center spot), area box (max/min), isotherm (above/below/interval)	No measurement, 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										
Communication modes	USB-C, micro-USB and Lightning		USB, Wi-Fi, Bluetooth, FLIR Ignite™ Cloud Service		USB Type-C: data transfer/power, USB 2.0	USB Type-C: data transfer/power, USB 2.0, Bluetooth® BLE				USB, Wi-Fi				USB 2.0, Wi-Fi, Bluetooth, DisplayPort				USB 2.0, Wi-Fi, Bluetooth, DisplayPort									
Touchscreen	-		3.5 in (8.9 cm)		-				-				4 in (10.16 cm)				4 in (10.16 cm)										
On-screen text, image sketch	-		Touch keyboard for text only		-				-				Yes				Yes										
Voice annotation	-		-		-				-				Yes				Yes										
Laser pointer	-		-		Center spot and circular area				-				Yes				Yes										
METERLINK®	-		-		-	-	Yes	-	-				Yes				Yes										
Radiometric JPEG	Yes		Yes		JPEG w/ spot temp data				Yes				Yes				Yes										
IR video storage	Yes		-		-				-				Yes				Yes										
Built-in GPS/Compass	-		-		-				-				Yes				Yes										
FLIR Inspection Route	Not available		Not available		Not available				Not available				Yes				Yes										
1-touch Level/Span	Not available		Not available		Not available				Not available				Yes				Yes										

\*Hot spot to center spot Delta measurement