



# HANDHELD THERMAL CAMERA MATRIX



Specifications	Mobile			Compact		Industrial				Handheld			Professional				High-Performance											
Model	FLIR ONE® Pro	FLIR ONE® Edge	FLIR ONE® Edge Pro	C3-X	C5/Cx5 <sup>1</sup>	TG165-X	TG267	TG275	TG297	E5 Pro	E6 Pro	E8 Pro	E54	E76	E86	E96	T530	T540	T560	T840	T865	T1020						
IR resolution	160 x 120 (19,200 pixels)	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)	160 x 120 (19,200 pixels)	240 x 180 (43,200 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)	640 x 480 (307,200 pixels)	1,024 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											
VividIR™ image enhancement	Yes	-	Yes	-		-				-			-				-											
Color viewfinder	-			-		-				-			-				Yes											
Thermal sensitivity	<0.07°C			<0.07°C		<0.07°C				<0.06°C	<0.05°C	<0.04°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%		50°C to 100°C (122°F to 212°F): acc. of ±1.5°C (±3°F); 0°C to 50°C (32°F to 122°F): 100°C to 300°C (212°F to 572°F): acc. of ±2.5°C (±6°F); -25°C to 0°C (-13°F to 32°F): acc. of ±3°C (±7°F)		-25°C to 50°C (-13°F to 122°F): acc. up to ±3°C (±7°F) 50 to 100°C (122°F to 212°F): acc. of ±1.5°C (±3°F) or ±1.5% whichever is greater 100°C to 380°C (212°F to 716°F): acc. of ±2.5°C (±6°F) or ±2.5% whichever is greater		-25°C to 0°C (-13°F to 32°F): acc. ±3°C (±7°F) 0°C to 50°C (32°F to 122°F): acc. ±2.5°C (±5°F) 50°C to 100°C (122°F to 212°F): acc. ±1.5°C (±3°F) or ±1.5% whichever is greater 100°C to 500°C (212°F to 932°F): acc. ±2.5°C (±6°F) or ±2.5% whichever is greater 500°C to 1,030°C (932°F to 1,886°F): acc. of ±3°C (±7°F) or ±3%, 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						5°C to 100°C (41°F to 212°F): acc. of ±1°C (±1.8°F) 100°F to 120°C (212°F to 248°F): acc. of ±1% -40°C to 100°C (-40°F to 212°F): acc. of ±2°C (±3.6°F) 100°C to 650°C (212°F to 1202°F) and 300°C to 2000°C (572°F to 3,632°F): acc. of ±2% 1,800°C to 2,000°C (3,272°F to 3,632°F) with 42° lens: acc. of ±3%		-40°C to 5°C (-40°F to 302°F): acc. of ±2°C (±3.6°F) 5°C to 100°C (41°F to 212°F): acc. of ±1°C (±1.8°F) 100°C to 150°C (212°F to 302°F): acc. of ±1% 0°C to 100°C (32°F to 212°F): acc. of ±2°C (±3.6°F) 100°C to 650°C (212°F to 1202°F): ±2% 300 to 2,000°C (572°F to 3,632°F): acc. of ±2%	
Temperature range	-20°C to 400°C (-4°F to 752°F)	-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 380°C (-13°F to 716°F)	-25°C to 550°C (-13°F to 1022°F)	-25°C to 1,030°C (-13°F to 1,886°F)	-20°C to 400°C (-4°F to 752°F)	-20°C to 550°C (-4°F to 1,022°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)							
High-temperature option (accessory)														300°C to 1000°C (572°F to 1832°F)						300 to 1200°C (572°F to 2192°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	54° x 43°	54° x 42°		54° x 42°		51° x 66°	57° x 44°				33° x 25°			24° x 18°	Lens dependent				Lens dependent									
Digital Zoom	-			-	1-4x continuous	-				-			1-4x continuous		1-8x continuous		1-4x continuous	1-6x continuous	1-8x continuous	1-6x continuous	1-8x continuous							
Available lenses	-			-		-				-			-	14°, 24°, 42°, 80°, 24°-14° Dual FOV FlexView™ lenses				6°, 14°, 24°, 42°, 80°, 24°-14° Dual FOV FlexView™, and 2x Macro lenses						7°, 12°, 28°, 45°, and 3x Macro lens				
Measurement tools	Spotmeter (hottest, coldest, 3-spot measurement)			Spotmeter (center spot), area box (max/min)		Center spot on/off				Center spot, area box with hot spot and cold spot, Delta T			Center spot, hot spot, cold spot, 3 spots, hot spot-spot <sup>2</sup>		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				
Communication modes	USB Type-C, Lightning	Wi-Fi, Bluetooth®		USB Type-C, Wi-Fi, Bluetooth		USB Type-C: data transfer/power, USB 2.0		USB Type-C: data transfer/power, USB 2.0, Bluetooth® BLE			USB Type-C, Wi-Fi, Bluetooth			USB 2.0, Wi-Fi, Bluetooth, DisplayPort				USB 2.0, Wi-Fi, Bluetooth, DisplayPort						USB Micro-B, Wi-Fi, Bluetooth, HDMI				
FLIR Ignite™ cloud service	Yes			Yes		-				Yes			Yes				Yes											
Touchscreen	Uses mobile device touchscreen			Yes		-				Yes			Yes				Yes											
Text, image sketch	Text notes (via mobile device display)			Touch keyboard for text only		-				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				Yes											
Built-in GPS/Compass	Yes (from mobile device, if available)			-		-				-			Yes				Yes											
FLIR Inspection Route	-			-		-				-			Yes				Yes											
1-Touch level/span	-			Yes		-				Yes			Yes				Yes											

<sup>1</sup>ATEX approved

<sup>2</sup>Hot spot to center spot Delta measurement