

Detailed specifications

	Ti125	Ti110	Ti100
	Industrial-Commercial		General use
IR resolution (FPA size)	160 x 120 FPA Uncooled Microbolometer		
Spectral band	7.5 µm to 14 µm (long wave)		
Capture or refresh rate	9 Hz or 30 Hz versions		9 Hz
NETD (Thermal sensitivity)	≤ 0.10 °C at 30 °C target temp (100 mK)		
FOV (Field of view)	22.5 °H x 31 °V		
Ifov (Spatial resolution)	3.39 mRad		
Temperature measurement range (not calibrated below -10 °C)	-20 °C to +350 °C (-4 °F to +662 °F)	-20 °C to +250 °C (-4 °F to +482 °F)	
Temperature measurement accuracy	± 2 °C or 2 % (at 25 °C nominal, whichever is greater)		
Focus mechanism	IR-OptiFlex™ focus system		Focus-free 1.2 m (4 ft) and beyond
IR-Fusion™ technology	PIP, FULL IR, FULL VISIBLE, AutoBlend	PIP, FULL IR, FULL VISIBLE	No, full IR only
Color alarms	High temperature, low temperature, isotherm	High temperature	–
Standard palettes	Blue-Red, Grayscale, Inverted Grayscale, High-contrast, Hot Metal, Ironbow, Amber, Inverted Amber		Blue-Red, Ironbow, Grayscale, Amber
Ultra Contrast™ palettes	Blue-Red, Grayscale, Inverted Grayscale, High-contrast, Hot Metal, Ironbow, Amber, Inverted Amber	Blue-Red, Grayscale, Ironbow	–
Hot/cold markers	Yes	–	
User definable spot markers	Three on camera and in SmartView®		in SmartView® only
Centerbox (MIN/AVG/MAX)	Yes	–	
Level and span control	Manual and auto		
Minimum span in auto mode	5 °C		
Minimum span in manual mode	2.5 °C		
Minimum IR focus distance	15.25 cm (6 in)	1.2 m (4 ft)	
Weight	0.726 kg (1.6 lb)		
Size	28.4 x 8.6 x 13.5 cm (11.2 x 3.4 x 5.3 in)		
LCD display	3.5 inch diagonal (portrait format)		
Visible camera	2 megapixel industrial-grade		N/A
Minimum automatic parallax correction	~18-22 inches		N/A
IR-PhotoNotes™ annotation system	Yes (3 images)		–
Laser pointer	Yes		
Torch	Yes	–	
Electronic (cardinal) compass	Yes	–	
Emissivity correction	Yes		
Transmission correction	Yes	–	
Background (reflected) compensation	Yes		
Voice annotation (audio)	Yes (60 seconds) per image		–
Multi-mode video output	Streaming USB video output (infrared, visible and IR-Fusion modes)	–	
Multi-mode video recording (standard avi w/ mpeg encoding)	Yes (AVI with MPEG encoding, up to 5 minutes)		–
Multi-mode video recording (radiometric .is3)	Yes, radiometric .is3 for approx. 2.5 to 5 minutes depending upon thermal scene	–	
Memory review	thumbnail review		
Battery (field-replaceable, rechargeable)	Two	One	
Battery life	4+ hours (each)*		
External battery charging base	Yes	Optional (accessory)	
Charging power supply	Yes		
Drop test	2 meter (6.5 feet)		
Ingress protection (IP) rating (IEC 60529)	IP 54		
Recommended Calibration cycle	Two-years		
Multifunction card reader	Included	–	
Memory storage	2 GB SD memory card		
Direct download capability	mini USB download direct to PC		
Operating temperature range	-10 °C to +50 °C (14 °F to 122 °F)		
Storage temperature range	-20 °C to +50 °C (-4 °F to 122 °F)		
Operating humidity	Operating and storage 10 % to 95 %, Non-condensing		
Vibration and shock	2G, IEC 68-2-26 and 25G, IEC 68-2-29		
Safety standards	CSA (US and CAN): C22.2 No. 61010-1-04, UL: UL STD 61010-1 (2nd Edition), ISA: 82.02.01		
C Tick	IEC/EN 61326-1		
EMI, RFI, EMC	EN61326-1; FCC Part 5		
User manuals	Czech, English, Finnish, French, German, Italian, Japanese, Korean, Polish, Portuguese, Russian, Simplified Chinese, Spanish, Swedish, Traditional Chinese, Turkish, Dutch, and Hungarian		
Standard warranty period	Two-years		
Extended warranty and service plans	Yes		

*Assumes 50% brightness of LCD