



Model number	Ti32	Ti29	Ti27	Ti25
Other Features				
Detector size	320 x 240	280 x 210	240 x 180	160 x 120
Detector type	Uncooled Microbolometer, Focal Plane Array	Uncooled Microbolometer, Focal Plane Array	Uncooled Microbolometer, Focal Plane Array	Uncooled Microbolometer, Focal Plane Array
Field of View (FOV)	23° horizontal x 17° vertical	23° horizontal x 17° vertical	23° horizontal x 17° vertical	23° horizontal x 17° vertical
Spatial Resolution (IFOV)	1.25 mRad	1.43 mRad	1.67 mRad	2.5 mrad
Minimum Focus Distance	15 cm (approx. 6 in)	15 cm (approx. 6 in)	15 cm (approx. 6 in)	15 cm (approx. 6 in)
Thermal Sensitivity (NETD)	≤0.045 °C at 30 °C (45 mK)	≤0.05 °C at 30 °C (50 mK)	≤0.05 °C at 30 °C (50 mK)	≤0.09 °C at 30 °C (90 mK)
Detector data acquisition/###Image frequency	60 Hz or 9 Hz	60 Hz or 9 Hz	60 Hz or 9 Hz	9 Hz
Focus	Manual, 1-handed SmartFocus	Manual, 1-handed SmartFocus	Manual, 1-handed SmartFocus	Manual, 1-hand focus
IR Digital Zoom	No	No	No	No
Spectral Band	7.5 µm to 14 µm	7.5 µm to 14 µm	7.5 µm to 14 µm	7.5 µm to 14 µm
Transmission Correction (On Imager)	Yes	Yes	Yes	No
Reflected Background Temperature Correction (On Imager)	Yes	Yes	Yes	Yes
Measurement modes				
Centerpoint	Yes	Yes	Yes	Yes
Center box (area, min/max, average)	in software only	in software only	in software only	in software only
User defined spots/boxes	in software only			
Advanced on-board analysis functions	No	No	No	No
User defined field/text annotations	No	No	No	No
Voice annotation	Yes	Yes	Yes	Yes
Automatic hot and cold point detection	Yes	Yes	Yes	Yes
Image presentation				
Digital display	3.7" LCD	3.7" LCD	3.7" LCD	3.6" High Resolution LCD
Video output	No	No	No	No
Palettes	16 (8 Standard and 8 Ultra Contrast™)	16 (8 Standard and 8 Ultra Contrast™)	16 (8 Standard and 8 Ultra Contrast™)	6
Optional lenses				
54 mm Telephoto	Yes	Yea	Yea	
10.5 mm Wide angle lens	Yes	Yes	Yes	
Image and data storage				
Storage medium	SD memory card (2 GB), Stores at least 1200 fully radiometric (.is2) IR-Fusion images or 3000 basic IR images (.bmp or .jpg)	SD memory card (2 GB), Stores at least 1200 fully radiometric (.is2) IR-Fusion images or 3000 basic IR images (.bmp or .jpg)	SD memory card (2 GB), Stores at least 1200 fully radiometric (.is2) IR-Fusion images or 3000 basic IR images (.bmp or .jpg)	SD memory card (2 GB), Stores at least 1200 fully radiometric (.is2) IR-Fusion images or 3000 basic IR images (.bmp or .jpg)
On imager file formats	BMP, JPG, IS2	BMP, JPG, IS2	BMP, JPG, IS2	BMP, IS2

File formats supported in software	BMP, JPG, GIF, PNG, TIF, DIB, JPE, JFIF, JPEG, TIFF	BMP, JPG, GIF, PNG, TIF, DIB, JPE, JFIF, JPEG, TIFF	BMP, JPG, GIF, PNG, TIF, DIB, JPE, JFIF, JPEG, TIFF	BMP, JPG, GIF, PNG, TIF, WMF, EXIF and EMF
Imager features				
Fully radiometric	Yes	Yes	Yes	Yes
Flash and torch light	No	No	No	No
Laser pointer	No	No	No	No
Windows CE based navigation menu	Yes	Yes	Yes	Yes
AutoCapture (Programable Image Capture)	No	No	No	No
180° articulating lens	No	No	No	
Software included	Yes (SmartView)	Yes (SmartView)	Yes (SmartView)	Yes (SmartView)
Environmental and mechanical design				
Operating temperature	-10 to +50°C (14 °F to 122 °F)	-10 to +50°C (14 °F to 122 °F)	-10 to +50°C (14 °F to 122 °F)	-10 to +50°C (14 °F to 122 °F)
Storage temperature	-20 to +50°C (-4 °F to 122 °F) without batteries	-20 to +50°C (-4 °F to 122 °F) without batteries	-20 to +50°C (-4 °F to 122 °F) without batteries	-20 to +50°C (-4 °F to 122 °F) without batteries
Relative humidity	10% to 95% non-condensing	10% to 95% non-condensing	10% to 95% non-condensing	10% to 90% non-condensing
Water and dust resistant	IP54	IP54	IP54	IP54
Weight (including batteries)	1.05 kg (2.3 lb) battery included	1.05 kg (2.3 lb) battery included	1.05 kg (2.3 lb) battery included	1.2 kg (2.65 lb)
Camera size (HxWxD)	277 x 122 x 170 mm (10.9 in x 4.8 in x 6.7 in)	277 x 122 x 170 mm (10.9 in x 4.8 in x 6.7 in)	277 x 122 x 170 mm (10.9 in x 4.8 in x 6.7 in)	0.27 x 0.13 x 0.15 m (10.5 in x 5 in x 5 in)
Warranty	2 years	2 years	2 years	2 years
Power				
Battery type	Two lithium ion rechargeable smart battery packs with five-segment LED display to show charge level	Two lithium ion rechargeable smart battery packs with five-segment LED display to show charge level	Two lithium ion rechargeable smart battery packs with five-segment LED display to show charge level	NiMH Rechargeable battery pack
Battery operating time	4+ hours continuous per battery pack	4+ hours continuous per battery pack	4+ hours continuous per battery pack	3-4 hours continuous
Battery re-charge time	2.5 Hours or less to full charge	2.5 Hours or less to full charge	2.5 Hours or less to full charge	2 hours for full charge
AC operation (110/220 VAC, 50/60 Hz)	Yes	Yes	Yes	Yes
Automatic shut down	Yes	Yes	Yes	Yes
Sleep mode	Yes	Yes	Yes	Yes
Applications				
Electrical distribution/power generation	Yes	Yes	Yes	Yes
In plant electrical	Yes	Yes	Yes	Yes
Electromechanical	Yes	Yes	Yes	Yes
Mechanical systems	Yes	Yes	Yes	Yes
Process monitoring & installations	Yes	Yes	Yes	Yes
Building Diagnostics				No
Other	Yes	Yes	Yes	
IR-Fusion Technology				
IR-Fusion Technology	Yes	Yes	Yes	Yes
Full thermal	Yes	Yes	Yes	Yes
Full visual light	In Software	In Software	In Software	In Software
Auto Blending	Yes	Yes	Yes	Yes
Picture in Picture	Yes	Yes	Yes	Yes
Color Alarm	Yes (High Temperature)	Yes (High Temperature)	Yes (High Temperature)	In software only

Temperature measurement

Temperature range	-20 °C to 600 °C (-4 °F to 1112 °F)	-20 °C to 600 °C (-4 °F to 1112 °F)	-20 °C to 600 °C (-4 °F to 1112 °F)	-20 °C to 350 °C in 2 ranges (-4 °F to 662 °F in 2 ranges)
High temperature option	No	No	No	No
Accuracy	±2 °C or 2% whichever is greater	±2 °C or 2% whichever is greater	±2 °C or 2% whichever is greater	±2 °C or 2% whichever is greater
Emissivity correction	Yes	Yes	Yes	Yes