



Your Complete Source for NDT Testing Equipment

Ph. (847) 577-3980 Fax (847) 577-0474 www.bergeng.com

Fluke Ti25 to TiR1 Comparison

Model number	Ti25	TiR1
Pricing	Please Contact Us	Please Contact Us
Detector size	160 x 120	160 x 120
Detector type	Uncooled Microbolometer, Focal Plane Array	Uncooled Microbolometer, Focal Plane Array
Field of View (FOV)	23° horizontal x 17° vertical	23° horizontal x 17° vertical
Spatial Resolution (IFOV)	2.5 mrad	2.5 mrad
Minimum Focus Distance	0.15m	0.15m
Thermal Sensitivity (NETD)	≤0.1 °C at 30 °C (100 mK)	≤0.07 °C at 30 °C (70 mK)
Detector data acquisition/ Image frequency	9 Hz	9 Hz
Focus	Manual	Manual
IR Digital Zoom		No
Spectral Band	7.5 µm to 14 µm	7.5 µm to 14 µm
Centerpoint	Yes	Yes
Center box (area, min/max, average)	In software only	In software only
User defined spots/boxes	in software only	in software only
Advanced on-board analysis functions	No	No
User defined field/text annotations	No	No
Voice annotation	Yes	Yes
Automatic hot and cold point detection	Yes	Yes
Digital display	3.6" High Resolution LCD	3.6" High Resolution LCD
Video output	No	No
Palettes	6	6
Storage medium	SD memory card (2 GB), Stores at least 1200 fully radiometric (.is2) IR- Fusion images or 3000 basic IR images	SD memory card (2 GB), Stores at least 1200 fully radiometric (.is2) IR- Fusion images or 3000 basic IR images
On imager file formats	BMP, IS2	BMP, IS2
File formats supported in software	BMP, JPG, GIF, PNG, TIF, WMF, EXIF and EMF	BMP, JPG, GIF, PNG, TIF, WMF, EXIF and EMF
Fully radiometric	Yes	Yes
Flash and torch light	No	No
Laser pointer	No	No
Windows CE based navigation menu	Yes	Yes
AutoCapture (Programmable Image Capture)	No	No
Software included	Yes (SmartView)	Yes (SmartView)



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Operating temperature	-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)	-20 to +50°C (-4 °F to 122 °F)
Relative humidity	10% to 90% non-condensing	10% to 90% non-condensing
Water and dust resistant	IP54	IP54
Weight (including batteries)	1.2 kg (2.65 lb)	1.2 kg (2.65 lb)
Camera size (HxWxD)	0.27 x 0.13 x 0.15 m (10.5 in x 5 in x 5 in)	0.27 x 0.13 x 0.15 m (10.5 in x 5 in x 5 in)
Warranty	2 years	2 years
Battery type	NiMH Rechargeable battery pack	NiMH Rechargeable battery pack
Battery operating time	3-4 hours continuous	3-4 hours continuous
Battery re-charge time	2 hours for full charge	2 hours for full charge
AC operation (110/220 VAC, 50/60 Hz)	Yes	Yes
Automatic shut down	Yes	Yes
Sleep mode	Yes	Yes
Electrical distribution/power generation	Yes	
In plant electrical	Yes	
Electromechanical	Yes	
Mechanical systems	Yes	
Process monitoring & installations	Yes	
Building Diagnostics		Yes
IR-Fusion Technology	Yes	Yes
Full thermal	Yes	Yes
Full visual light	Yes	Yes
Auto Blending	Yes	Yes
Picture in Picture	Yes	Yes
Color Alarm	In software only	In software only
Temperature range	-20 °C to 350 °C in 2 ranges (-4 °F to 662 °F in 2 ranges)	-20 °C to 100 °C (-4 °F to 212 °F)
High temperature option	No	No
Accuracy	±2 °C or 2% whichever is greater	±2 °C or 2% whichever is greater
Emissivity correction	Yes	Yes