

Fluke TiR1/R Thermal Imagers

Optimized for building envelope inspection, restoration and remediation and roofing applications.

The new Fluke TiR1 and TiR Thermal Imagers are the perfect imagers for any building application.

- Enhanced problem detection and analysis capabilities with patentpending IR-Fusion® Technology

 only available from Fluke.
- Optimized for tough environments
 - Engineered and tested to withstand a 2 meter (6.5 foot) drop
 - Withstands dust and water—tested to an IP54 rating
- Delivers the clear, crisp images needed to find problems fast
 - Identify the smallest temperature differences common in building and roofing applications with their optimized thermal sensitivity (NETD)

- High performance, low noise sensor provides high quality image and stable temperature reading
- Even the smallest details become visible with the large, widescreen full color LCD display
- Intuitive, three-button menu is easy to use ... simply navigate with the push of a thumb.
- No need to carry pen and paper record findings by speaking into the camera— voice annotation comments are saved with the image. (TiR1 only)
- Store more than 3,000 screen images (.bmp format) or 1,200 IR-Fusion images on included 2 GB SD memory card.





Fluke TiR1/R specifications

Inage in particularities Field of the provide provides 23's horizontal x 17" vertical		Fluke TiR1	Fluke TiR			
Pieted view (POV) 23° horizontals IT* vertical Minimum focus distance Thermal fems: 15 on (approx. 6 in), visible (visual) light lens: 46 on (approx. 18 in)	Imaging performance		53330 525			
Minimum focus distance		23° horizontal y 17° vertical				
Thermal sensativity (NETD) ### STO / 2.5 °C ##	. ,					
Decision Process Pr						
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EN61326-1	EN 61010-1 2nd edition and EN61326-1	Yes				
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TiR4FT, TiR3FT and TiR2FT IR FlexCam® Thermal Imagers

The experts' choice for building diagnostics

The Fluke TiR4FT, TiR3FT and TiR2FT IR FlexCam® Thermal Imagers are for professionals demanding the best and most thorough solution in building diagnostics applications

- Enhanced problem detection and analysis capabilities with patent-pending IR-Fusion® Technology – only available from Fluke.
- · View crisp, clear images on large LCD screen
- Industry leading thermal sensitivity (≤ 0.05 °C NETD on TiR4FT) (≤ 0.07 °C NETD on TiR3FT and TiR2FT) provides solid resolution and ultra high-quality images.

- Easily view around obstructions with the 180 ° articulating lens
- Exceptional image resolution delivered with 320 x 240 focal plan array and 20 mm high quality germanium lens on TiR3FT and TiR4FT models (TiR2FT available with 160 x 120 FPA)
- SmartFocus allows for easy one finger continuous focus
- Generate fast, easy customizable reports with included SmartView™ software
- Intuitive, easy to use operation with Windows CE® interface.





Fluke TiR4FT, TiR3FT and TiR2FT specifications

		TiR4FT	TiR3FT	TiR2FT	
Imaging performance	Thermal				
	Field of view (FOV)*	23° horizontal x 17° vertical			
	Spatial resolution (IFOV)*	1.30 mrad 2.60 mrad			
	Minimum focus distance*		0.15 m		
	Thermal sensitivity (NETD)	≤ 0.05 °C at 30 °C	≤ 0.07 °C	at 30 °C	
	Detector data acquisition / Image frequency	60 Hz 30 Hz		30 Hz	
	Focus	Sma	SmartFocus; one finger continuous focus		
	IR digital zoom	2x, 4x, 8x 2x			
	Detector type	Focal Plane Array (FPA) Uncooled Microbolometer			
	Detector size	320 x 240 FPA 160 x 120 FPA			
	Spectral band	8 μm to 14 μm			
	Digital image enhancement	Automatic full–time enhanced			
	Visual				
	On camera operating modes	Full thermal, full visual light or merged thermal-visual images. Picture-in-picture. Alarm.			
	Visible light camera	1280 x 1024 pixels, full color (1.3 Mega pixel)			
	Visible light digital zoom	2x, 4x 2x			
Temperature measurement	Calibrated temperature range		20 °C to 100 °C (-4 °F to 212 °I	·	
	Accuracy		2 °C or 2 % (whichever is gre	·	
	Measurement modes	TiR2FT/TiR4FT - Centerpoint, center box (area min/max, average) moveable spot, TiR3FT - Centerpoint, center box (area min/max, average)			
	Emissivity correction		0.1 to 1.0 (0.01 increments)		
Image presentation	Digital display	5″.	large high-resolution digital di	splay	
	LCD backlight		Sunlight readable color LCD		
	Video output		EIA/NTSC or CCIR/PAL compos		
	Palettes		e inverted, blue red, high cont		
Optional lens	10.5 mm wide-angle lens		High precision Germanium len		
	Field of view (FOV)	0.45	42° horizontal x 32° vertical		
	Spatial resolution (IFOV)	2.45 mrad 4.9 mrad			
**************************************	Minimum focus distance	Comment flority and at	0.3 m	. (C10 MD)	
Image and data storage	Storage medium		ores more than 1000 IR images		
	File formats supported		lata included. Exportable BMP,		
Interfaces and software	Interface	Compact flash card reader included			
•	Software	SmartView; full analysis and reporting software included			
Laser	Classification	Class II			
Controls and adjustments	Laser targeting	Laser dot visible on screen when blending thermal and visible image			
Controls and adjustments	Set-up controls	Date/time, temperature units C/F, language, calibration range, LCD intensity (high/normal/low)			
	Image controls	Level, span, auto adjust, emissivity and background (continuous/manual)			
	On-screen indicators	Battery status, target emissivity, background temperature and realtime clock			
Power	Battery type		rt battery, rechargeable, field-i	-	
	Battery operating time	Two hours continuous operation			
	Battery charging	2 bay intelligent charger powered via AC outlet			
	AC operation	AC adapter 110/220 VAC, 50/60 Hz (TiR2FT/TiR4FT only)			
	Power saving	Automatic shutdown and sleep modes (user specified)			
Environmental and	DC operation	Vehicle 12 volt adaptor optional			
mechanical design	Operating temperature	-10 °C to +50 °C (14 °F to 122 °F) -40 °C to +70 °C (-40 °F to 158 °F)			
	Storage temperature Relative humidity	Operating and storage 10 % to 95 %, non-condensing			
	Water and dust resistant	IP54			
		1.95 kg (4.29 pounds)			
	Weight (including batteries) Camera size (HxWxD)	160 mm = 1	162 mm x 262 mm x 101 mm (6.5 in x 10.5 in x 4.0 in)		
Other	, ,				
Outer	Warranty	Two-years			

^{*}standard 20 mm Germanium lens



Mouser Electronics

Authorized Distributor

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Fluke:

FLK-TIR3/FT-10/20 FLK-TIR4/FT-10/20