

ECTRICAL/ELECTRONIC TESTING & MEASURING EQUIPMENT

> 15210 Priceville Road Sparks, MD 21152 410-472-2416 Fax 410-472-4652

Richmond, VA 804-794-1315

www.TOMWBLACK.com

Philadelphia, PA

215-569-2132

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Fluke Industrial Thermal Imagers

Models: Ti32, Ti29 and Ti27. Three models specifically for industrial and electrical applications.



Technical Data



Proven Practical Performance The P3 Series: Superior, not Superfluous. Fluke is how other tools are measured.



Ti27

- 240x180 IR resolution
- 43,200 total
 IR pixels

Ti29

- 280x210 IR resolution
- 58,800 total
 IR pixels

Ti32

- 320x240 IR
- resolution • 76,800 total
- 78,800 tota
 IR pixels





The greatest technological advancement in thermography may be how Pluke has made it so simple to capture images and analyze data right out of the box.

Superior image quality

Inhistry-leading thermal sensitivity and spatial resolution combined with a high definition display, creates the sharpest images in the industry.

One-handed, easy-to-use interface

With just a push of your thumb, go from one-handed manual smart focus to adding picture-in-picture and even add voice comments.

Torture tested™

Before a Phuke goes into your hands, we drop it from ours. Only Phuke thermal imagers are designed from the inside out to withstand a 6.5 ft drop.

Patented Fluke IR-Fusion≈

[Picture-in-picture and auto blending]
Precision visible and IR image alignment allows Pluke
to offer the only on-camera blended infrared and visible
image to better diagnose issues.

Interchangeable lenses

Interchangeable wide-angle and IR-Pusion compatible telephoto lenses to cover any application.

Fluke. Not just infrared, infrared you can use.



Inclustrial Methanical, electromechanical and general building melmonance.



Beltactory testization, tank and vassel levels, steam systems and trap pipes and valves, etc.



Electrical Unhalanced loads, overloaded systems, whiting mistakes or comment failure, etc.



Patented Fluke IR-Fusion® Technology

More than picture in picture

Infrared images alone can be difficult to understand, which is why Fluke pioneered IR-Pusion, a revolutionary marriage of visible and infrared images never before seen in commercial or industrial thermal imagers. Automatically capturing a visible image with every infrared image allows to you always know exactly what you're looking at.

Not all fusion is created equal

Don't be fooled by imitators. No other manufacturer can boast on-camera blending. Compare the images. Only Fluke has mastered the ability to create the industry's only transparent, perfectly blended and aligned visible and infrared images.







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Thermal Imager	TI-32	TI-29	TI-27
Temp. Range	11-32	-20C – 600°C (1112°F)	11-27
Resolution	320 x 240 (76,800)	280 x 210 (58,800)	240 x 180 (43,200)
Sensitivity NETD	≤0.045°C (45 mK)	≤0.05°C (50 mK)	≤0.05°C (50 mK)
Frame Refresh Rate	20.043 C (43 IIIK)	60 Hz	20.03 C (30 IIIK)
Software	Complete Reporting/Analysis Software Included FREE No Licenses		
Display	3.7 inch Landscape (640 X 480) LCD with Backlight & Clear Protective Cover		
Voice Recording	Yes – 60 Seconds per image (playback available on imager)		
Batteries	Two Lithium Ion rechargeable Smart Battery (5 LED battery meter)		
Battery Life	4+ Hours Continuous Use @ 50% Backlight / 2.5 hr charge (2 Bays)		
Drop Test Durability	YES – 6.5 ft drop tested (2 Meter) with standard lens		
Warranty	2 Years Standard (Optional Extended Warranty Plans Available)		
Emissivity Correction	YES		
Background Correction	YES		
Transmission Correction	YES		
Spectral Sensitivity	7.5 – 14 μm (Complete Long Wave Spectrum)		
Visible Camera Resolution	2.0 MP (Industrial Durable Performance) 18 inch min Focus		
Standard IR Lens	,	,	
Field of View		23° x 17°	
Spatial Resolution (IFOV)	1.25 mRad	1.43 mRad	1.67 mRad
Min Focus Distance		6 inches (15 cm)	
Telephoto Lens			
Field of View		11.5° x 8.7°	
Spatial Resolution	0.63 mRad	0.72 mRad	0.84 mRad
Min Focus Distance	18 inches (45 cm)		
Wide Angle Lens			
Field of View	46° x 34°		
Spatial Resolution	2.50 mRad	2.86 mRad	3.34 mRad
Focus	Manual – one handed Smart Focus capability		
Palettes	Ironbow, Blue-Red, High Contrast, Amber, Amber Inverted, Hot Metal,		
	Grayscale, Grayscale Inverted		
Ultra-Contrast Palettes	Ironbow Ultra, Blue-Red Ultra, High Contrast Ultra, Amber Ultra, Amber		
	·	tal Ultra, Grayscale Ultra, G	•
Level & Span	Smooth Auto Scaling & Manual Scaling of Level and Span		
Fast Toggle		Yes	
(Auto – Manual Span)		2.50.0 (4.5.05)	
Minimum Span Manual	2.5° C (4.5 °F)		
Minimum Span Auto	5 °C (9 °F)		
IR Fusion Blending	Yes, Automatically Aligned Parallax Corrected Visual & IR Images		
Picture in Picture (PIP)	Yes + Three Levels of IR Fusion Blending (MAX / MID / MIN)		
Color Temperature Alarm	Yes, High Temperature Alarm (User Selectable)		
Image Capture	One Handed Easy Trigger Capture – 2 GB SD Memory Card (1200 + Voice)		



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File Formats	.is2, .jpg, .bmp	
Memory Review	Thumbnail view navigation and review selection	
Operating Temperature	-10 – 50°C (14-122°F)	
Storage Temperature	-20 – 50°C (-4-122°F) without batteries	
Relative Humidity	10 – 95 % non-condensing	
AC Operation	YES	
Power Saving Mode	YES-Sleep Mode Activated after 5 min of inactivity, Power off after 30 min	
Recommended	2 Years (assumes normal operation and aging)	
Calibration		
Enclosure Rating	IP54	
Size	10.9 in x 4.8 in x 6.7 in	
Weight with Battery	2.3 lb / 1.05 kg	

Optional Accessories

Telephoto Lens
Wide Angle Lens
Car Charger
Sun Visor
Tripod Mount
Care Plans (Details Below)

Gold CarePlan

- Loaner camera on extended repair
- One year extended warranty coverage beyond your original factory warranty
- One NIST traceable calibration included during your extended warranty period
- Nist traceable calibration performed on needed repair incident
- 15% off standard service rates for out-of-plan service charges such as accidental physical damage or abuse
- First-on-Bench priority handling
- 20% discount on any requested performance check or NIST traceable calibration during your factory warranty period and CarePlan term.
- Renew your policy annually for up to three years (with uninterrupted coverage)
- Free firmware and hardware upgrade when available (product change notices, PCN)
- Notification service of calibration due date, pending plan expiration date and update notices

Silver CarePlan

- One year extended warranty coverage beyond your original factory warranty
- One performance check included during your extended warranty period
- Full performance check with any needed repair
- First-on-bench priority handling
- Discount on any requested performance check or NIST traceable calibration during your factory warranty period and CarePlan term.
- Renew your policy annually for up to two years (with uninterrupted coverage)
- Free firmware and hardware updates when available (product change notices, PCN)
- Notification service of calibration due date, pending plan expiration date and update notices



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Bronze CarePlan

- One year extended warranty coverage beyond your original factory warranty
- Performance check on needed repair
- First-on-Bench priority handling
- Discount on any requested performance check or NIST traceable calibration during your factory warranty period and CarePlan term
- Free firmware and hardware updates when available (product change notices, PCN)
- Notification service of calibration due date, pending plan expiration date and update notices