

FLUKE®

Fluke Ti25, Ti10 and Ti9 Thermal Imagers

Technical Data

The ultimate tools for troubleshooting and maintenance

The perfect tools to add to your problem solving arsenal. Built for tough work environments, these high-performance, fully radiometric imagers are ideal for troubleshooting electrical installations, electro-mechanical equipment, process equipment, HVAC/R equipment and others.

- Fluke Ti25 and Ti10 imagers come with enhanced problem detection and analysis capabilities with IR-Fusion® Technology. Simply scroll through the different viewing modes quickly to better identify trouble areas in Full IR thermal, picture-in-picture, or automatic blend visual and thermal images. Fluke Ti9 imagers can be upgraded to a full Ti10 with IR-Fusion at a later time.
- Optimized for field use in harsh work environments.
- Engineered and tested to withstand a 2 m (6.5 ft) drop—When was the last time you dropped a tool?
- · Withstands dust and water-tested to an IP54 rating.
- Delivers the clear, crisp images needed to find problems fast.
- Identify even small temperature differences that could indicate problems with excellent thermal sensitivity (NETD).
- 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 annotations can be recorded with every image you take. Voice comments are saved along with individual images for future reference (Ti25 only).
- Everything needed to get started is included.
- Adjustable hand strap for left-or right-handed use.
- Manufactured in the U.S.A.

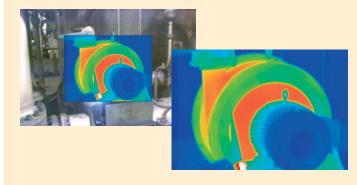


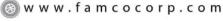


IR-Fusion® Technology

See things both ways—infrared and visual (visible light) images fused together communicating critical information faster and easier—traditional infrared images are no longer enough.

Fluke led the way in the development and use of IR-Fusion and the industry followed. Both visible and infrared images allow you to communicate exactly where potential savings can be gained. IR-Fusion is standard on Fluke Ti25 and Ti10 models.





E-mail: info@famcocorp.com

@famco_group

Tel:∘۲1- κ Λ ∘ ∘ ∘ ∘ κ ۹

(a) Fax:011 - FF99F5FP





Detailed specifications

	Ti25	Ti10	Ti9	
Temperature	5325			
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)		
Accuracy	± 2 °C or 2 % (whichever is greater)	± 5 °C or 5 % (whichever is greater)		
On-screen emissivity correction	Yes	_		
Imaging performance				
Field of view	23°	x 17°		
Spatial resolution (IFOV)	2.5 mRad			
Minimum focus distance	Thermal lens: 15 cm (6 in Visible (visual) light lens: 46 cm			
Focus	Manual, one-	al, one-handed focus		
Image frequency	9 Hz refresh rate			
Detector type	160 X 120 focal plane array, uncooled microbolometer			
Infrared lens type	20 mm F :	= 0.8 lens		
Thermal sensitivity (NETD)	≤ 0.1 °C at 30 °C (100 mK)	≤ 0.2 °C at 30	O°C (200 mK)	
Infrared spectral band	7.5 μm to 14 μm			
Visual camera	640 x 480 resolution			
Image presentation				
Palettes	Ironbow, blue-red, high contrast, amber, hot metal, grey	Ironbow, blue-red,	high contrast, grey	
Level and span	Smooth auto-scaling and man	nual scaling of level and span		
Minimum span (in manual mode)	2.5 °C (4.5 °F)	5 °C (9 °F)		
Minimum span (in auto mode)	5 °C (9 °F)	10 °C (18 °F)		
IR-Fusion® information	Full infrared with MAX, MID, or MIN automatic blending; and picture-in-picture with MAX, MID, or MIN automatic blending (Visual and IR blending)	Full infrared or picture-in-picture	No IR-Fusion. Full Infrared only. Ti9 models are upgrad- able to a full Ti10 for an additional fee.*	
Picture-In-Picture (PIP)	Three levels of on-screen IR blending displayed in center 320 x 240 pixels	100 % IR displayed in center 320 x 240 pixels	_	
Full screen (PIP off)	Three levels of on-screen IR blending displayed in center 640 x 480 LCD	100 % IR displayed in center 640 x 480 LCD		
Voice annotation				
Voice annotation	60 seconds maximum recording time per image	-	_	
Image and data storage				
Storage medium	SD memory card (2 GB memory card will store at least 1200 fully radiometric (.is2) IR and linked visual images each with 60 seconds voice annotations or 3000 basic (.bmp) IR images)			
File formats	Non-radiometric (.bmp) or fully-radiometric (.is2). No analysis software required for .bmp files.			
Export file formats w/SmartView® software	JPEG, BMP, GIF, PNG, TIFF			

 $^{{}^*\}text{Contact}$ your Fluke sales representative for more information about upgrade options.

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General specifications

Operating: -10 °C to 50 °C (14 °F to 122 °F) Storage: -20 °C to +50 °C (-4 °F to 122 °F) without batteries		
10 % to 90 % non-condensing		
9.1 cm (3.6 in) diagonal landscape color VGA (640 x 480) LCD with backlight (selectable bright or auto)		
User selectable temperature scale (°C/°F) Language selection Time/Date set Emissivity selection and Reflected Background Temperature Compensation (Ti25 only) User selectable Hot Spot and Cold Spot on the image (Ti25 only) Ti25 allows user to adjust palette, alpha blend, level, span, PIP, and emissivity on a captured image before it is stored.		
SmartView® full analysis and reporting software included		
Battery: Internal rechargeable battery pack (included) Battery life: Three to four hours continuous use (assumes 50 % brightness of LCD) Battery charge time using ac adapter/charger and dc car charger: Two hours for full charge		
AC adapter/charger (110 Vac to 220 Vac, 50 Hz to 60 Hz). Charges battery while imager is operating. Universal ac mains adapters included.		
Sleep mode activated after 5 minutes of inactivity, automatic power off after 20 minutes of inactivity		
CE Directive: IEC/EN 61010-1 2nd Edition Pollution Degree 2		
EMC directive: EN61326-1 C-Tick: IEC/EN 61326 US FCC: CFR 47, Part 15 Class A		
2 G, IEC 68-2-29		
25 G, IEC 68-2-29 (2 m or 6.5 ft drop, 6 sides)		
0.27 m x 0.13 m x 0.15 m (10.5 in x 5 in x 6 in)		
1.2 kg (2.65 lb)		
IP54		
Two-years		
Two-years (assumes normal operation and normal aging)		
English, Italian, German, Spanish, French, Russian, Portuguese, Swedish, Turkish, Czech, Polish, Finnish, Simplified Chinese, Traditional Chinese, Korean, and Japanese		

Ordering information

FLK-Ti25 9HZ Thermal Imager
FLK-Ti10 9HZ Thermal Imager
FLK-Ti9 9HZ Thermal Imager

Not all models available in all areas.

Included with product

Thermal imaging camera w/20 mm lens, ac power supply/battery charger (including mains adapters), SD memory card, SD card reader (USB) for downloading images into your computer, SmartView* software with free software upgrades for life, rugged hard, carrying case, soft transport bag, hand strap, users manual, warranty registration card, interactive training DVD.

Optional accessories

FLK-TI-CHARGER Thermal Imager Car Charger FLK-Ti-VISOR Thermal Imager Visor

3 Fluke Corporation Ti25, Ti10 and Ti9 Thermal Imagers

Fluke. Not just infrared. Infrared you can use.™

Fluke Corporation

PO Box 9090, Everett, WA 98206 U.S.A.

Fluke Europe B.V.

PO Box 1186, 5602 BD Eindhoven, The Netherlands

For more information call:

In the U.S.A. (800) 443-5853 or
Fax (425) 446-5116
In Europe/M-East/Africa +31 (0) 40 2675 200 or
Fax +31 (0) 40 2675 222
In Canada (800)-36-FLUKE or
Fax (905) 890-6866
From other countries +1 (425) 446-5500 or
Fax +1 (425) 446-5116

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🔞 w w w . fa m c o c o r p . c o m

🔁 E-mail: info@famcocorp.com

@famco_group

Tel:∘۲۱− ۴ ∧ ∘ ∘ ∘ ∘ ۴ 9

Fax:∘۲1 - ۴۴99۴۶۴۲

تهران، کیلومتر ۲۱ بزرگراه لشگری (جاده مخصوص کرج) روبـروی پالایشگاه نفت پـارس، پلاک ۱۲





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.



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

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

- 320x240 IR resolution
- 76,800 total
- IR pixels





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

Superior image quality

Industry-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 Fluke goes into your hands, we drop it from ours. Only Fluke 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 Fluke to offer the only on-camera blended infrared and visible image to better diagnose issues.

Interchangeable lenses

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

Fluke. Not just infrared, infrared you can use.®



Mechanical, electromechanical and general building



Refractory insulation, tank and vessel levels, steam systems and traps, pipes and valves, etc.



Unbalanced loads, overloaded systems, wiring mistakes or component failure, etc.



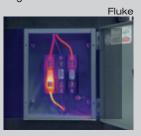
Patented Fluke IR-Fusion® Technology

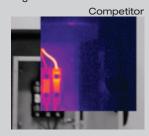
More than picture in picture

Infrared images alone can be difficult to understand, which is why Fluke pioneered IR-Fusion, 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.

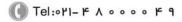




🔞 w w w . f a m c o c o r p . c o m

🔁 E-mail: info@famcocorp.com

@famco_group



🗐 Fax:071 - ۴۴99۴۶۴۲

تهران، کیلومتر ۲۱ بزرگراه لشگری (جاده مخصوص کرج)

روبـروی پالایشگاه نفت پـارس، یلاک ۱۲





Detailed specifications

	Ti32	Ti29	Ti27			
Temperature						
Temperature measurement range (not calibrated below -10 °C)	-20 °C to +600 °C (-4 °F to +1112 °F)					
Temperature measurement accuracy	± 2 °C or 2 % (at 25 °C nominal, whichever is greater)					
On-screen emissivity correction	Yes					
On-screen reflected background temperature compensation	Yes					
On-screen transmission correction	Yes					
Imaging performance						
Image capture frequency	9 Hz refresh	rate or 60 Hz refresh rate depending upon m	odel variation			
Detector type	Focal Plane Array, uncooled microbolometer, 320 x 240 pixels	Focal Plane Array, uncooled microbolometer, 280 x 210 pixels	Focal Plane Array, uncooled microbolometer, 240 x 180 pixels			
Thermal sensitivity (NETD)	≤ 0.045 °C at 30 °C target temp. (45 mK)	≤ 0.05 °C at 30 °C	target temp (50 mK)			
Total pixels	76,800	58,800	43,200			
Infrared spectral band	7.5 µm to 14 µm (long wave)					
Visual (visible light) camera	Industrial performance 2.0 megapixel					
Minimum focus distance	45 cm (approx. 18 in)					
Standard infrared lens type						
Field of view		23 ° x 17 °				
Spatial resolution (IFOV)	1.25 mRad	1.43 mRad	1.67 mRad			
Minimum focus distance	15 cm (approx. 6 in)					
Optional telephoto infrared lens type)	11.50 0.50				
Field of view	0.00 P. 1	11.5 ° x 8.7 °	201 7 1			
Spatial resolution (IFOV)	0.63 mRad	0.72 mRad	0.84 mRad			
Minimum focus distance		45 cm (approx. 18 in)				
Optional wide-angle infrared lens ty	rpe	46 ° x 34 °				
Field of view Spatial resolution (IFOV)	2.50 mRad	2.86 mRad	3.34 mRad			
Minimum focus distance	2.50 IIIRau	7.5 cm (approx. 3 in)	3.34 IIIRau			
Fogue machaniem		Manual one-handed Smart Fogus canability	,			
Focus mechanism Image presentation		Manual, one-handed Smart Focus capability	,			
Image presentation		Manual, one-handed Smart Focus capability	,			
Image presentation Palettes	Ironbow, Blue-Red, High Co	ontrast, Amber, Amber Inverted, Hot Metal, G ra, High Contrast Ultra, Amber Ultra, Amber Ir	rayscale, Grayscale Inverted			
Image presentation Palettes Standard	Ironbow, Blue-Red, High Co Ironbow Ultra, Blue-Red Ultr	ontrast, Amber, Amber Inverted, Hot Metal, G	rayscale, Grayscale Inverted overted Ultra, Hot Metal Ultra,			
Image presentation Palettes Standard Ultra Contrast™ Level and span Fast auto toggle between manual	Ironbow, Blue-Red, High Co Ironbow Ultra, Blue-Red Ultr	ontrast, Amber, Amber Inverted, Hot Metal, G ra, High Contrast Ultra, Amber Ultra, Amber Ir Grayscale Ultra, Grayscale Inverted Ultra	rayscale, Grayscale Inverted overted Ultra, Hot Metal Ultra,			
Image presentation Palettes Standard Ultra Contrast™ Level and span	Ironbow, Blue-Red, High Co Ironbow Ultra, Blue-Red Ultr	ontrast, Amber, Amber Inverted, Hot Metal, G a, High Contrast Ultra, Amber Ultra, Amber Ir Grayscale Ultra, Grayscale Inverted Ultra a auto-scaling and manual scaling of level an	rayscale, Grayscale Inverted overted Ultra, Hot Metal Ultra,			
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2 Fluke Corporation Ti32, Ti29 and Ti27 Industrial Thermal Imagers



Tel:∘ΥI− ۴ Λ ∘ ∘ ∘ ∘ ۴ 9

Fax:∘۲1 - ۴۴99۴۶۴





General specifications

Operating temperature	-10 °C to +50 °C (14 °F to 122 °F)		
Storage temperature	-20 °C to +50 °C (-4 °F to 122 °F) without batteries		
Relative humidity	10 % to 95 % non-condensing		
Display	9.1 cm (3.7 in) diagonal landscape color VGA (640 x 480) LCD with backlight and clear protective cover		
Controls and adjustments	User selectable temperature scale (°C/°F)		
	Language selection		
	Time/Date set		
	Emissivity selection		
	Reflected background temperature compensation Transmission correction		
	User selectable hot spot and cold spot, and center point on the image (other custom markers and shapes in SmartViews software)		
	High temperature alarm		
	User selectable backlight: "Full Bright" or "Auto"		
	Information display preference		
Software	SmartView® full analysis and reporting software included		
Batteries	Two lithium ion rechargeable smart battery packs with five-segment LED display to show charge level		
Battery life	Four+ hours continuous use per battery pack (assumes 50 % brightness of LCD)		
Battery charge time	2.5 hours to full charge		
AC battery charging	Two-bay ac battery charger (110 V ac to 220 V ac, 50/60 Hz) (included), or in-imager charging. AC mains adapters included.		
	Optional 12 V automotive charging adapter.		
AC operation	AC operation with included power supply (110 V ac to 220 V ac, 50/60 Hz). AC mains adapters included.		
Power saving	Sleep mode activated after five minutes of inactivity, automatic power off after 30 minutes of inactivity		
Safety standards	CSA (US and CAN): C22.2 No. 61010-1-04, UL: UL STD 61010-1 (2nd Edition), ISA: 82.02.01		
Electromagnetic compatibility	Meets all applicable requirements in EN61326-1:2006		
C Tick	IEC/EN 61326-1		
US FCC	CFR 47, Part 15 Class B		
Vibration	0.03 g2/Hz (3.8 grms), IEC 68-2-6		
Shock	25 g, EC 68-2-29		
Drop	2 meter (6.5 feet) with standard lens		
Size (H x W x L)	27.7 cm x 12.2 cm x 17.0 cm (10.9 in x 4.8 in x 6.7 in)		
Weight (battery included)	1.05 kg (2.3 lb)		
Enclosure rating	IP54 (protected against dust, limited ingress; protection against water spray from all directions)		
Warranty	Two-years (standard), extended warranties are available.		
Recommended calibration cycle	7 1 0 01		
Supported Languages	Czech, English, Finnish, French, German, Italian, Japanese, Korean, Polish, Portuguese, Russian, Simplified Chinese, Spanish,		
	Swedish, Traditional Chinese, and Turkish		

Ordering information

FLK-Ti32 9 Hz Industrial-Commercial Thermal Imager, 9 Hz FLK-Ti32 60 Hz Industrial-Commercial Thermal Imager, 60 Hz FLK-Ti29 9 Hz Industrial-Commercial Thermal Imager, 9 Hz FLK-Ti29 60 Hz Industrial-Commercial Thermal Imager, 60 Hz FLK-Ti27 9 Hz Industrial-Commercial Thermal Imager, 9 Hz FLK-Ti27 60 Hz Industrial-Commercial Thermal Imager, 60 Hz



Included

Thermal imager with standard infrared lens; ac power supply and battery pack charger (including mains adapters); two, rugged lithium ion smart battery packs; SD memory card; multi-format USB memory card reader for downloading images into your computer; SmartView® software with free software upgrades for life; rugged, hard carrying case; soft transport bag; adjustable hand strap; printed users manual; warranty registration card.

Optional accessories

FLK-LENS/TELE1 Telephoto Infrared Lens
FLK-LENS/WIDE1 Wide-angle Infrared Lens
TI-CAR-CHARGER Thermal Imager Vehicle Charger
TI-VISOR Thermal Imager Visor
BOOK-ITP Introduction to Thermography Principles Book

TI-TRIPOD Tripod Mounting Base Accessory



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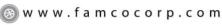
PO Box 1186, 5602 BD Eindhoven, The Netherlands

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35 Vantage Point Drive Rochester, NY 14624 1.800.800.5001

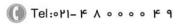
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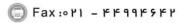
3 Fluke Corporation Ti32, Ti29 and Ti27 Industrial Thermal Imagers



🔁 E-mail: info@famcocorp.com

@famco_group





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