

Fluke TiR1 Thermal Imager



- Includes IR-Fusion® Technology both in camera and software (combines visible image with IR image in full screen or picture-in-picture views) for easy identification and reporting of problems
- Rugged and reliable: Engineered to withstand a 2 m (6.5 ft) drop
- 9.1 cm (3.6 in) diagonal landscape color VGA (640 x 480) LCD
- Temperature range and thermal sensitivity optimized for building diagnostics applications
- Perfect for any application and budget
- Excellent thermal sensitivity for seeing even small temperature differences (which could indicate problems)
- Adjustable hand strap for left- or right-handed users
- Manufactured in the U.S.A.

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Detailed Specifications		
Temperature	Temperature measurement range (not calibrated below -10 °C) Accuracy Measurement modes On-screen emissivity correction	-20 °C to +100 °C (-4 °F to +212 °F) ± 2 °C or 2 % (whichever is greater) Smooth auto-scaling and manual scaling Yes
Imaging performance	Field of view Spatial resolution (IFOV) Minimum focus distance Focus Image frequency Detector type Infrared lens type Thermal sensitivity (NETD) Infrared spectral band Visual camera	23° x 17° 2.5 mRad Thermal lens: 15 cm (6 in); Visible (visual) light lens: 46 cm (18 in) Manual 9 Hz refresh rate 160 X 120 focal plane array, uncooled microbolometer 20 mm F = 0.8 lens ≤ 0.07 °C at 30 °C (70 mK) 7.5 μm to 14 μm 640 x 480 resolution
Image presentation	Palettes Level and span Minimum span (in manual mode) Minimum span (in auto mode) IR-Fusion® information Picture-In-Picture (PIP) Full screen (PIP off)	Ironbow, blue-red, high contrast, amber, hot metal, grey Smooth auto-scaling and manual scaling of level and span 2.5 °C (4.5 °F) 5 °C (9 °F) Full Infrared with MAX, MID, or MIN automatic blending; and Picture-in-Picture with MAX, MID, or MIN automatic blending Visual and IR blending Three levels of on-screen IR blending displayed in center 320 x 240 pixels Three levels of on-screen IR blending displayed in center 640 x 480 LCD

Voice annotation	Voice annotation 60 seconds maximum recording time per image
Image and data storage	<p>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)</p> <p>File formats Non-radiometric (.bmp) or fully-radiometric (.is2) No analysis software required for non-radiometric (.bmp) files</p> <p>Export file formats w/SmartView™ software JPEG, BMP, GIF, PNG, TIFF, WMF, EXIF, and EMF</p>

General specifications	
Temperature	<p>Operating: -10 °C to 50 °C (14 °F to 122 °F)</p> <p>Storage: -20 °C to +50 °C (-4 °F to 122 °F) without batteries</p>
Relative humidity	10 % to 90 % non-condensing
Display	9.1 cm (3.6 in) diagonal landscape color VGA (640 x 480) LCD with backlight (selectable bright or auto)
Controls and adjustments	User selectable temperature scale (°C/°F) Language selection Time/date set
Software	SmartView™ full analysis and reporting software included
Power	<p>Battery: Internal rechargeable battery pack (included)</p> <p>Battery life: 3 to 4 hours continuous use (assumes 50 % brightness of LCD)</p> <p>Battery charge time using ac adapter/charger or dc car charger: 2 hours for full charge</p>
AC operation/charging	AC adapter/charger (110 V ac to 220 V ac, 50 Hz to 60 Hz). Charges battery while imager is operating. Universal ac mains adapters included.
Power saving	Sleep mode activated after 5 minutes of inactivity, automatic power off after 30 minutes of inactivity
Safety standards	CE Directive: IEC/EN 61010-1 2nd Edition Pollution Degree 2
Electromagnetic compatibility	<p>EMC directive: EN61326-1</p> <p>C-Tick: IEC/EN 61326</p> <p>US FCC: CFR 47, Part 15 Class A</p>
Vibration	2 G, IEC 68-2-29

Shock	25 G, IEC 68-2-29 {2 m (6.5 ft) drop, 5 sides}
Dimensions (HxWxL)	0.27 m x 0.13 m x 0.15 m (10.5 in x 5 in x 6 in)
Weight	1.2 kg (2.65 lb)
IP rating	IP54
Warranty	Two-years
Calibration cycle	Two-years (assumes normal operation and normal aging)
Supported languages	English, Italian, German, Spanish, French, Russian, Portuguese, Swedish, Turkish, Czech, Polish, Finnish, Simplified Chinese, Traditional Chinese, Korean, and Japanese

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Model Name	Description
Fluke TiR1	9 Hz Thermal Imager Includes: <ul style="list-style-type: none">• Fluke-TiR1 9HZ Thermal Imager• 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

Batteries, Chargers & Adapters		Buy it **
Fluke TI-CAR CHARGER	Fluke TI-CAR CHARGER	