

Fluke TiR4FT Infrared Camera



Key features

- Leading thermal sensitivity (to 0.05 °C NETD) provides fine resolution, and ultra high-quality images.
- IR-Fusion® technology automatically merges visual and thermal images, pinpointing trouble areas quicker by automatically relating thermal images with the real world. IR-Fusion is included with all models.
- The 180 ° articulating lens is great for viewing around obstructions.
- Large, 5 in high resolution, high contrast display.
- A Vanadium Oxide focal plane array (to 320 by 240 pixels) and 20 mm high quality Germanium lens with continuous single finger focus provide exceptional image resolution.
- [SmartView®](#) professional report writing software generates fast, easy customizable reports including rich image analysis with free updates for the life of your product.
- The intuitive operation with on-camera Windows CE interface makes it easy to use.

Product overview: Fluke TiR4FT Infrared Camera

Increase Your Thermal Efficiency – Locate Building Problems Quickly and Easily

An easy-to-use portable thermal imaging camera, the TiR4FT is specifically designed for building applications. The articulating lens allows users to easily view targets at nearly any angle and the TiR4FT offers 320 x 240 resolution with [IR-Fusion® Technology](#). IR-Fusion® is the blending of digital and thermal images into a single image and delivers crisp, quality images, allowing you to quickly identify and report issues. With thermal sensitivity of ≤ 0.05 °C at 30 °C (50 mK) and a temperature range from -20 ° to 100 °C (-4 ° to 212 °F) the TiR4FT is ideal for residential and commercial energy audits, moisture/restoration, mold remediation and roofing. The TiR4FT allows you to quickly identify and report potential problems and ensure repairs are done correctly the first time.

Accuracy and Image Quality at 180 ° Angle

The large, five-inch resolution LCD allows for a clear picture in any lighting condition and the SmartFocus wheel simplifies getting a stable and sharp image. Difficult to find intermittent problems can be captured and analyzed quickly with AutoCapture, which only captures images that contain anomalies and where a temperature limit is exceeded. Save time and money, identify problems easily and quickly with the TiR4FT.

For a non-articulating thermal imaging camera with a high temperature range and low thermal sensitivity (NETD), the [Ti400](#) is an alternative choice. It features wireless connectivity for quick and easy sharing of images, LaserSharp® Auto Focus for consistently in-focus images – every, single, time and a ruggedized high resolution 640 x 480 capacitive touch screen for quick menu navigation.

As always, [Fluke SmartView® Software](#) is included at no additional charge.

Specifications: Fluke TiR4FT Infrared Camera

Temperature Performance	
Calibrated temperature range	-20°C to 100°C (-4°F to 212°F)
Fully radiometric	76,800 calibrated pixels
Accuracy	±2°C or 2%
Emissivity correction	0.1 to 1.0 (0.01 increments)
Measurement modes	Centerpoint, center box (area min/max, average) moveable spots/boxes, user defined field/text annotations, isotherms, automatic hot and cold point detection, visible color alarm above and below.
Imaging Performance	
VOx FPA detector size	320 x 240
Detector frame rate (Hz) ¹	60
Field of view (FOV)	23°horizontal x 17°vertical
Spatial resolution (IFOV)	1.30 mrad
Min. focus distance	0.15 m
Thermal sensitivity (NETD)	0.05°C at 30°C - (50 mK)
Focus	Smart Focus: one finger continuous focus
Image Presentation	
Digital display	5 in LCD
Video output	RS170 EIA/NTSC or CCIR/PAL composite video
Palettes	Grayscale, grayscale inverted, blue red, high contrast, hot metal, ironbow, amber, amber inverted
LCD backlight	Sunlight readable color LCD
Other	
Software included	SmartView®
Storage medium	1000 IR images on compact flash card (1 GB) Flash Memory
Laser pointer	Yes

Built-in visible light camera	Yes
IR-Fusion	Yes
IR/Visible Alarm on camera	Yes
Flash and torch light	Yes
180°articulating lens	Yes
Optional lenses	Yes
Windows CE based menu	Yes
AutoCapture	Yes
On board analysis functions	Yes
User defined text annotations	Yes
Warranty	2 years
Optional Lenses	
54 mm telephoto lens	High precision germanium lens
Field of view (FOV)	9 degree horizontal x 6 degree vertical
Spatial resolution (IFOV)	0.94 mrad
Min focus distance	0.6 m
10.5 mm wide angle lens	High precision germanium lens
Field of View (FOV)	42 degree horizontal x 32 degree vertical
Spatial resolution (IFOV)	2.45 mrad
Min focus distance	0.3 m
7.5 Hz models are available in some geographies. Check with your Fluke sales representative for additional information.	
Mechanical and General Specifications	
Operating temperature	-10°C to +50°C (14°F to 122°F)
Storage temperature	-40°C to +70°C (-40°C to 158°F)
Relative humidity	Operating and storage 10% to 95%, non-condensing
Water and dust resistant	IP54
Weight	1.95 kg (4.3 lbs) (including batteries)
Camera size (H x W x D)	162 x 262 x 101 mm (6.5 x 10.5 x 4.0 in)
1. Specifications with standard 20 mm Germanium lens	

Ordering information



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- Flexcam Thermal Imager with IR-Fusion
 - Heavy-duty carrying case
 - 2 rechargeable battery packs
 - Battery charger
 - AC adapter
 - Video cable
 - 512 MB compact flash card
 - Compact flash card reader
 - USB cable
 - Neck strap
 - SmartView reporting and analysis software on CD
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