

TECHNICAL DATA

Fluke Ti10 Infrared Camera



Key features

- 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.
- 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.
- Everything needed to get started is included.
- Adjustable hand strap for left- or right-handed use.
- Everything needed to get started is included.
Training DVD is now included free. See how easy it is to set up your thermal imager, create professional reports with SmartView software and learn thermography theory with [step-by-step video instructions](#).
- Manufactured in the U.S.A.

Product overview: Fluke Ti10 Infrared Camera

The ultimate tool for troubleshooting and maintenance

This [thermal imager](#) is the perfect tool to add to your problem solving arsenal. Built for tough work environments, this high-performance, fully radiometric [infrared camera](#) is ideal for troubleshooting electrical installations, electro-mechanical equipment, process equipment, HVAC/R equipment and others.

IR-Fusion® Technology

See things both ways - infrared and visual (visible light) images combined together communicating critical information faster and easier - traditional infrared images are no longer enough. IR-Fusion, a patent-pending technology that simultaneously captures a digital photo in addition to the infrared image and combines it together, taking the mystery out of IR image analysis. IR-Fusion is standard on Ti10 models.

Specifications: Fluke Ti10 Infrared Camera

Temperature	
Temperature measurement range (not calibrated below -10°C)	-20°C to +250°C (-4°F to + 482°F)
Temperature measurement accuracy	±2°C or 2% (at 25°C nominal, whichever is greater)
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 (18 in)
Focus	Manual
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)	≤ 0.13°C at 30°C target temp. (130 mK)
Infrared spectral band	7.5 µm to 14 µm
Visual camera	640 x 480 resolution
Image Presentation	
Palettes	Ironbow, blue-red, high contrast, grey
Level and span	Smooth auto-scaling and manual scaling of level and span
Minimum span (in manual mode)	5°C (9°F)
Minimum span (in auto mode) Fast Auto/Manual Range Toggle Fast Auto Rescale	10°C (18°F)
IR-Fusion® information	Full infrared or picture-in-picture
Picture-In-Picture (PIP)	100% IR displayed in center 320 x 240 pixels
Full screen (PIP off)	100% IR displayed in center 640 x 480 LCD
Palettes	Ironbow, blue-red, high contrast, grey
Image Capture 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 or 3000 basic (.bmp) IR images)
File formats	Non-radiometric (.bmp) or fully-radiometric (.is2) No analysis software required for non-radiometric (.bmp) files
Export file formats w/SmartView™ software	JPEG, BMP, GIF, PNG, TIFF, WMF, EXIF, and EMF
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 (3.6 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
Batteries	Internal rechargeable battery pack (included)
Battery life	Three to four hours continuous use (assumes 50% brightness of LCD)
Battery charge time	Two hours for full charge
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 five minutes of inactivity, automatic power off after 20 minutes of inactivity
Safety standards	CE Directive: IEC/EN 61010-1 2nd Edition Pollution Degree 2
Electromagnetic compatibility	EMC directive: EN61326-1 C-Tick: IEC/EN 61326 US FCC: CFR 47, Part 15 Class A
Vibration	2 G, IEC 68-2-29
Shock	25 G, IEC 68-2-29 {2 m (6.5 ft) drop, 5 sides}
Dimensions (H x W x L)	0.27 x 0.13 x 0.15 m (10.5 x 5 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	Czech, English, Finnish, French, German, Italian, Japanese, Korean, Polish, Portuguese, Russian, Simplified Chinese, Spanish, Swedish, Traditional Chinese, Turkish

Ordering information



Fluke Ti10

Fluke Ti10 Infrared Camera

Includes:

- 9 Hz Thermal Imager 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
-



Fluke. *Keeping your world up and running.®*

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

For more information call:
In the U.S.A. (800) 443-5853
In Canada (800) 36-FLUKE
From other countries +1 (425) 446-5500
www.fluke.com

©2023 Fluke Corporation.
Specifications subject to change without notice.
09/2023

**Modification of this document is not permitted
without written permission from Fluke Corporation.**