

TECHNICAL DATA

# Fluke TiS55+ Thermal Camera



## Key features

- 256 x 192 infrared resolution
- Asset Tagging
- Touchscreen IR Fusion™
- Manual and fixed focus
- Measure up to 550 °C
- Engineered to withstand 2 meter drop

## Product overview: Fluke TiS55+ Thermal Camera

Rugged. Reliable. Accurate.

At Fluke, we know accidents happen—tools will be dropped, kicked, stepped on or knocked over. You shouldn't have to replace a tool because it fell off the workbench or was splashed with water or dirt. That's why we designed the TiS55+ thermal camera to withstand a 2-meter drop and be water/dust resistant (IP54). You need to know that your camera will start up every time.

Ditch the clipboard

With so many inspections in your day, it can be hard to remember what you saw and where that was. Maybe you carry around a clipboard to jot down notes onto. The TiS55+ comes with built-in personal assistants, which means you can finally ditch the clipboard and have all the information you need in the images you take, including:

- **Voice annotation**

- Record up to 60 seconds per thermal image
- Identify exactly what you see in real time
- **IR-PhotoNotes**
  - Take photos of asset numbers and other identifiers
  - Use as a reference when looking at the thermal image on your computer
- **Asset Tagging**
  - Sort your thermal images by asset
  - Scan a QR code on your asset, then start capturing thermal images
  - Connect your camera to your computer to view the images, sorted by asset

## Specifications: Fluke TiS55+ Thermal Camera

Key Features	TiS55+
Infrared resolution	256 x 192 (49,152 pixels)
IFOV	1.91 mRad
Field of view	28° x 20°
Minimum focus distance	0.15 m
Focus system	Manual focus
Wireless connectivity	Yes, to PC, iPhone® and iPad® (iOS 4s and later), Android™ 4.3 and up, and WiFi and LAN (where available)
Fluke Connect app compatible	Yes*, connect your camera to your smartphone, and images taken automatically upload to the Fluke Connect app for saving and sharing
Fluke Connect Assets optional software	Yes*, assign images to assets and create work orders. Easily compare measurement types - whether mechanical, electrical or infrared images - in one location
Asset Tagging	Scan a QR code to automatically organize and file thermal images with Fluke Connect™
IR-Fusion technology	AutoBlend continuous 0 % to 100 %. Adds the context of the visible details to your infrared image
Picture-InPicture (PIP)	Yes
Display	3.5" (8.9 cm landscape) touchscreen 640 x 480 LCD
Ergonomic design	Designed for one-handed use
Thermal sensitivity	40mk
Level and span	Smooth auto and manual scaling
Fast auto-rescale in manual mode	Yes
Minimum span (in manual mode)	3°C (4.5 °F)
Minimum span (In auto mode)	5°C (9.0 °F)
Built-in digital camera (visible light)	5mp
Frame rate	9 Hz or 27 Hz models
Dew point calculation	No
<b>Data storage and image capture</b>	
Internal memory	500 images

External memory	≥4 GB SD card (>1000 images)
Image capture, review, save mechanism	One-handed image capture, review, and save capability
Image file formats	Non-radiometric BMP or JPEG or fully-radiometric is2
Memory review	Yes
Software	Fluke Connect software—full analysis and reporting software with access to the Fluke Connect
Analyze and store radiometric data on a PC	Yes
Export file formats with Fluke Connect software	is2, BMP, GIF, JPEG, PNG, TIFF
Voice annotation	Yes, 60 second maximum audio recording via Bluetooth Audio Headset Profile (HSP) connection to external device.
IR-PhotoNotes	Yes. Up to 1 extra user-selectable visible light image capture to be included in IS2 file.
Text annotations	After IS2 capture, user can type in a note using on-screen keyboard.
Video recording and formats	No
Remote control operations	No
Auto capture (temperature and interval)	Yes. User-selectable time interval for capturing IS2 or Jpeg files.
<b>Battery</b>	
Batteries (field-replaceable, rechargeable)	Lithium-ion rechargeable battery
Battery life	≥3.5 hours continuous without WiFi (Actual life depends on settings and usage)
Battery charging time	≤2.5 hours to full charge
Battery charging system	Ti SBC3B Two-Bay Battery Charger or in-Imager charging. (does not come with two-bay battery charger)
AC operation	AC operation with included power supply, universal adapters included Output: 15 VDC, 2 A
Power saving	User-selectable sleep and power off
<b>Temperature measurement</b>	
Temperature range (not calibrated below -10 °C)	-20 °C to 550 °C (not calibrated below -10 °C)
Accuracy	±2 °C or 2 % (whichever is greater) at 25 °C ambient temperature
On-screen emissivity correction	Yes, “top ten” material list plus numerical adjustment between 0.01 and 1.00
<b>Color palettes</b>	
Standard palettes	6
<b>General specifications</b>	
Color alarms	Yes
Infrared spectral band	~8-14µm
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
Spot temperature	Center spot (unmovable)
User-definable spot markers	Yes, 3 user-adjustable spot markers for a single pixel each. Position is adjustable. Temperature value for marker shown on screen. User can choose to switch display on/off for each marker.
User defined measurement boxes	Yes, 3 user-adjustable rectangles. Size and position are adjustable. Rectangle statistics shown on screen: Min, Max, Average temperature. User can choose to switch display on/off for each marker.
Hard case	Rugged hard carrying case with soft transport bag, including adjustable strap
Safety standards	IEC 61010-1: Pollution Degree 2
Electromagnetic compatibility	IEC 61326-1: Portable Electromagnetic Environment; IEC 61326-2-2 CISPR 11: Group 1, Class A
Australian RCM	RCM IEC 61326-1
US FCC	47 CFR 15 Subpart C Sections 15.207, 15.209, 15.249
Vibration	10 Hz to 150 Hz, 0.15 mm, IEC 60068-2-6
Shock	30 g, 11 ms, IEC 60068-2-27
Drop	Engineered to withstand 2M drop
Sized (H x W x L)	☐(26.7 cm x 10.1 cm x 14.5 cm) ☐(10.5 in x 4.0 in x 5.7 in)
Weight (battery included)	0.885 kg (1.95 lbs)
Enclosure rating	IP54
Warranty	Two-years (standard)
Recommended calibration cycle	Two-years (assumes normal operation and normal aging)
Supported languages	Czech, Dutch, English, Finnish, French, German, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Simplified Chinese, Spanish, Swedish, Traditional Chinese, and Turkish
RoHS compliant	Yes

## Ordering information



### **Fluke TiS55+ Thermal Camera 27HZ**

Fluke TiS55+ Thermal Camera 27HZ

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Includes:

- Thermal imager
  - AC power supply (including universal AC adapters)
  - One rugged lithium ion smart batteries
  - USB cable
  - 4 GB micro SD card
  - Rugged hard carrying case with soft transport bag and adjustable hand strap
  - Available by free download: Fluke Connect™ software and user manual
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### **Fluke TiS55+ Thermal Camera 9HZ**

Fluke TiS55+ Thermal Camera 9HZ

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Includes:

- Thermal imager
  - AC power supply (including universal AC adapters)
  - One rugged lithium ion smart batteries
  - USB cable
  - 4 GB micro SD card
  - Rugged hard carrying case with soft transport bag and adjustable hand strap
  - Available by free download: Fluke Connect™ software and user manual
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