TECHNICAL DATA

Fluke TiS20+ / TiS20+ MAX Thermal Imaging Camera

Key features

- Continuous touchscreen IR-Fusion™
- 5 hours battery life
- Can withstand drop up to 2 meter
- Water and dust resistant—IP54 enclosure rating
- Automatically organize and file thermal images with Fluke Connect™ Asset Tagging
- 120 x 90 infrared resolution

Product overview: Fluke TiS20+ / TiS20+ MAX Thermal Imaging Camera

Save time with the right level of infrared and analysis

Whether you are up on the roof inspecting heating, ventilation and air conditioning, deep in the plant scanning a motor, or if you are locking out an electrical panel, you rely on your tools to have the power and features to get your job done fast.

The Fluke TiS20+ and TiS20+ MAX handheld thermal cameras puts the power of thermal imaging at your fingertips. Designed to make your job quicker and easier, this thermal imager is the right tool for:

- Commercial electricians

- Heating, ventilation, air conditioning, and refrigeration technicians
- Maintenance technicians

Get context with a combined visual light and infrared image

In thermography, context matters. Let Fluke IR-Fusion™ make your job easier by using a thermal image overlaid on a visual light image to give you the full picture of where the issue is before it becomes a problem. Simply slide your finger across the screen to adjust the level of infrared. Whether you are finding an uneven load on a switchgear or inspecting a ventilation system, the Fluke TiS20+ helps you detect issues quickly.

You work hard all day, so should your tools

You cannot afford to have your thermal imager fail due to your environment. You can sleep easy at night knowing that your camera will hold up to whatever the day throws at you.

- 2 meter drop tested
- Water resistant (IP54)
- Dust resistant (IP54)

Stop sorting, start analyzing with Fluke Connect Asset Tagging

Eliminate hours at the computer organizing your thermal images, let Asset Tagging do all that work for you No more dragging and dropping or renaming files in the office, just scan a QR code on your asset, capture your thermal images and they automatically are sorted by asset. Start spending your time analyzing your images and creating reports instead of sorting your files one at a time.

Longest battery life in a Fluke thermal camera ever

The TiS20+ and TiS20+ MAX can work without a break, with a battery life of over 5 hours of continuous use making it the longest battery life in a Fluke thermal camera ever. Save your battery life in-between inspection points with sleep mode. Simply press the power button one time and you are back up and running.

Get the most out of your TiS20+ and TiS20+ MAX with Fluke Connect™ desktop software. Create professional reports in minutes while efficiently capturing full radiometric data to support your maintenance program.

- Edit and optimize images
- Combine infrared and visible images for simpler analysis
- Create detailed reports
- Access thermal images from cloud storage
- Organize and search images by asset, severity, and title

Specifications: Fluke TiS20+ / TiS20+ MAX Thermal Imaging Camera

Key features

Infrared resolution	120 x 90 (10,800pixels)
IFOV (spatial resolution)	7.6 mRad, D:S 130:1
Field of view	50° H x 38° V
Minimum focus distance	50cm (20 inches)
Focus system	Fixed focus
Data transfer	Mini USB used to transfer image to PC
Wireless connectivity	Yes, (802.11 b/g/n (2.4 GHz))
Fluke Connect instant upload	Yes, connect your camera to your building's WiFi network (802.11 b/g/n (2.4 GHz)), and images taken automatically upload to the Fluke Connect system for storage and viewing on your PC

Image quality	
IR-Fusion technology	AutoBlend continuous 0 % to 100 %. Adds the context of the visible details to your infrared image
Display	3.5" LCD touchscreen (landscape)
Display resolution	320 x 240 LCD
Thermal sensitivity (NETD)	60 mK
Frame rate	9 Hz

Data storage and image capture	
Memory	Internal 4GB memory (includes slot for optional micro SD card up to 32GB)
Image capture, review, save mechanism	One-handed image capture, review, and save capability
Image file formats	Non-radiometric (jpeg), or fully radiometric (.is2); no analysis software required for non-radiometric (jpeg) files
Software	Fluke Connect desktop software—full analysis and reporting software with access to the Fluke Connect system
Export file formats with software	JPG, IS2

Battery	
Batteries (field-replaceable, rechargable)	Lithium ion smart battery pack with five-segment LED display to show charge level
Battery life	≥ 5 hours continuous (without WiFi)
Battery charging time	2.5 hours to full charge
Battery charging system	In-imager charging. Optional 12 V automotive charging adapter
AC operation	AC operation with included power supply (100 V AC to 240 V AC, 50/60 Hz)
Power saving	Automatic Shutdown: 5, 10, 15 and 20 minutes or never

Temperature measurement

Temperature measurement range (not calibrated below -10 °C)	TiS20+: -20 °C to 150 °C (-4°F to 302°F) TiS20+ MAX -20 °C to 400°C (-4°F to 752°F)
Accuracy	Target temp at or over 0 °C: Accuracy: ± 2 °C or ± 2 % at 25 °C, whichever is the greater.
On-screen emissivity correction	Yes, material table
On-screen reflected background temperature compensation	Yes
Center-point temperature	Yes
Spot temperature	Hot and cold spot markers
Color palettes	
Standard palettes	6: Ironbow, Blue-Red, High Contrast, Amber, Hot Metal, Grayscale

General specifications	
Infrared spectral band	8 µm to 14 µm (long wave)
Operating temperature	-10 °C to 50 °C (14 °F to 122 °F)
Storage temperature	-20 °C to 50 °C without batteries
Relative humidity	95 % non-condensing
Safety	IEC 61010-1: Pollution Degree 2
Electromagnetic compatibility	EN 61326-1, CISPR 11: Group 1, Class A
US FCC	CFR, Part 15C
Vibration and shock	10 Hz to 150 Hz, 0.15 mm, IEC 60068-2-6; 30 g, 11 ms, IEC 60068-2-27
Drop	Engineered to withstand 2 meter drop
Size (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	0.72 kg (1.6 lb)
Enclosure rating	IP54 (protected against dust, limited ingress; protection against water spray from all directions)
Warranty	Two-years (standard)
Supported languages	Czech, Dutch, English, Finnish, French, German, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Simplified Chinese, Spanish, Swedish, Traditional Chinese, and Turkish

Ordering information

FLK-TiS20+ MAX 9 Hz

Fluke TiS20+ MAX Thermal Camera (9 Hz)

Includes:

- Thermal imager
- AC power supply
- Rugged lithium ion smart battery
- USB cable
- Soft transport bag

Fluke TiS20+ 9 Hz

Fluke TiS20+Thermal Camera (9 Hz) -20 °C to 150 °C (-4°F to 302°F)

Includes:

- Thermal imager
- AC power supply
- Rugged lithium ion smart battery
- USB cable
- Soft transport bag

Optional accessories	Description
Fluke Infrared Camera Car Charger	For the ultimate flexibility in the field - recharge your infrared camera wherever and whenever you need to.

Optional accessories	Description
Fluke SBC3B Charging Base	Charging base for TiX560, TiX520, TiX500, Ti400, Ti300, Ti200, TiS75, TiS65, TiS60, TiS55, TiS50, TiS45, TiS40, TiS20, TiS10, Ti125, Ti110, Ti105, Ti100, Ti95, Ti90, TiR125, TiR110, TiR105, Ti32, TIR32, Ti29, TiR29, Ti27, and TiR27 infrared cameras.
Fluke SBP3 Extra Battery Pack	Extra battery pack for Ti400, Ti300, Ti200, Ti125, Ti110, Ti105, Ti100, Ti95, Ti90, TiR125, TiR110, TiR105, Ti32, Ti29, Ti27 Infrared Cameras.
Fluke Tripod Mounting Accessory 3	This specially-engineered, one-piece mounting accessory quickly and easily attaches to your Ti400, Ti300 or Ti200 Infrared Camera and allows you to mount to a standard tripod or monopod for those applications or situations that require a more stable or semi-fixed platform.

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

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