

Ti125, Ti110, Ti105, Ti100 Industrial-Commercial Infrared Cameras

Technical Data

Now compatible with Fluke Connect™ Mobile App

Rugged and reliable troubleshooting infrared cameras

A Fluke infrared camera can save you time and money by finding potential problems before they become costly failures. Industrial professionals bring Fluke infrared cameras to the job because they do the job. Over 65 years of industrial experience give Fluke infrared tools the level of performance needed to keep you up and running. With the innovative features and functionality in the Fluke Ti125, Ti110, Ti105 and Ti100 infrared cameras, you can perform infrared inspections faster and more efficiently.

- The combination of great resolution with an optimized field of view provides brilliant detail and ensures quality images captured from a safe distance.
- Exclusive IR-OptiFlex™ focus system – ensures that images are in good focus from 1.2 meters (4 feet) and beyond for optimum image clarity and scanning convenience. For shorter distances change to manual mode with the touch of a finger (Ti110 and Ti125).
- Entire line up of infrared cameras is compatible to Fluke Connect™ – the largest network for wirelessly enabled tools.
- Find problems faster and easier with Fluke IR-Fusion® technology (Ti125, Ti110, Ti105). Accurately identify potential issues by combining digital and IR images.
- Get further clarification with AutoBlend™ mode – the blending of a digital and partially transparent IR image into a single information-filled image
- Multi-mode video recording – focus-free video in visible light and infrared with full IR-Fusion (Ti110 and Ti125 only).

Spend less time finding problems and more time solving them with the innovative, rugged and easy-to-use Ti125, Ti110, Ti105 and Ti100 infrared cameras.



Patented Fluke IR-Fusion® Technology

Enjoy the industry's only point-and-shoot IR-Fusion camera. Fluke patented technology provides the user with both a digital and an infrared image in one to precisely document problem areas.

IR-OptiFlex™ focus system

Scan for issues significantly faster than before with Fluke's revolutionary, ultra-rugged focus system. The IR-OptiFlex focus system gives you optimum focus by combining focus-free, ease-of-use with the flexibility of manual focus on the same camera.



See it. Save it. Share it. All the facts, right in the field.

Fluke Connect with ShareLive™ video call is the only wireless measurement system that lets you stay in contact with your entire team without leaving the field. The Fluke Connect mobile app is available for Android™ and iOS and works with over 20 different Fluke products—the largest suite of connected test tools in the world. And more is on the way. Go to the Fluke website to find out more.

Make the best decisions faster than ever before by viewing all temperature, mechanical, electrical and vibration measurements for each equipment asset in one place. Get started saving time and increasing your productivity.

Download the app at:



Smart phone not included with purchase.



Detailed specifications

| | TI125 | TI110 | TI105 | TI100 |
|---|---|--|---|-------------------------------------|
| IR resolution | 160 x 120 uncooled microbolometer | | | |
| LCD display | 3.5 inch diagonal (portrait format) | | | |
| Focus mechanism | IR-OptiFlex™ focus system | | Focus-free 1.2 m (4 ft) and beyond | |
| IR-Fusion® technology | PIP, FULL IR, FULL VISIBLE, Auto-Blend™ | PIP, FULL IR, FULL VISIBLE | PIP (1.2 m (4 ft) to 4.6 m (15 ft)), FULL IR, FULL VISIBLE | No, full IR only |
| Visible camera | 2 megapixel industrial-grade | | | None - IR Only |
| FOV (Field of view) | 22.5 °H x 31 °V | | | |
| IFOV (Spatial resolution) | 3.39 mRad | | | |
| Capture of refresh rate | 9 Hz or 30 Hz versions | | | |
| NETD (thermal sensitivity) | ≤ 0.10 °C at 30 °C target temp (100 mK) Filtered mode to get to 80 mK | | ≤ 0.10 °C at 30 °C target temp (100 mK) | |
| Level and span control | Manual and auto | | | |
| Minimum span in auto mode | 5 °C | | | |
| Minimum span in manual mode | 2.5 °C | | | |
| Standard palettes | Blue-Red, Grayscale, Inverted Grayscale, High-contrast, Hot Metal, Ironbow, Amber, Inverted Amber | | Blue-red, grayscale, inverted grayscale, high-contrast, hot metal, ironbow, amber | Blue-Red, Ironbow, Grayscale, Amber |
| Ultra Contrast™ palettes | Blue-Red, Grayscale, Inverted Grayscale, High-contrast, Hot Metal, Ironbow, Amber, Inverted Amber | Blue-Red, Grayscale, Ironbow | | None |
| Temperature measurement | | | | |
| Temperature measurement range (not calibrated below -10 °C) | -20 °C to +350 °C (-4 °F to +662 °F) | | -20 °C to +250 °C (-4 °F to +482 °F) | |
| Temperature measurement accuracy | | ± 2 °C or 2 % (at 25 °C nominal, whichever is greater) | | |
| Centerpoint temperature measurement | | Yes | | |
| Centerbox (Min/Avg/Max) | Yes | | | None |
| Emissivity correction | | Yes | | |
| Transmission correction | Yes | | No | |
| Background (reflected) compensation | | Yes | | |
| Spectral band | 7.5 µm to 14 µm (long wave) | | | |
| Analysis, documentation and reporting | | | | |
| SmartView® Software | | Included | | |
| Fluke Connect™ compatible | | Yes | | |
| Fluke Connect™ WiFi SD Card included | Yes | | No | |
| IR-PhotoNotes™ annotation system | Yes (3 images) | | | None |
| Voice annotation (audio) | Yes (60 seconds) per image | | No | |
| Multi-mode video output | Streaming USB video output (infrared, visible and IR-Fusion modes) | | None | |
| Multi model video redording (standard avi w/ mpeg encoding) | Yes (AVI with MPEG encoding, up to 5 minutes) | | None | |
| Multi-mode video recording (radiometric .is3) | Yes, radiometric .is3 for approximx 2.5 to 5 minutes depending upon thermal scene | | None | |
| Memory review | Thumbnail review | | | |
| Troubleshooting features | | | | |
| Color alarms | High temperature, low temperature, isotherm | High temperature, low temperature | High temperature | None |
| Hot/cold markers | Yes | | None | |
| User definable spot markers | Three on camera and in SmartView® | | | None |
| Laser pointer | | Yes | | |
| Torch | | Yes | | None |
| Built to last | | | | |
| Drop test | | 2 meter (6.5 feet) | | |
| Ingress protection (IP) rating (IEC 60529) | | IP54 | | |
| Standard warranty period | | Two-years | | |
| Extended warranty and service plans | | Yes | | |
| Smart battery technology | | | | |
| Battery (field-replaceable, rechargeable) | Two | | One | |
| Battery life | | 4+ hours (each)* | | |
| External battery charging base | Yes | | Optional (accessory) | |
| Charging power supply | | Yes | | |

| Other specifications | | | | | |
|-------------------------------|---|----------------------|----------------|--|--|
| Weight | 0.726 kg (1.6 lb) | | | | |
| Size | 28.4 cm x 8.6 cm x 13.5 cm (11.2 in x 3.4 in x 5.3 in) | | | | |
| Minimum IR focus distance | 15.25 cm (6 in) | 122 cm (48 in) | | | |
| Minimum parallax | ~45.7 – 55.9 cm (~ 18 in – 22 in) | ~122 cm (48 in) | None – IR Only | | |
| Recommended Calibration cycle | Two years | | | | |
| Multifunction card reader | Included | Optional (accessory) | | | |
| Memory storage | 2 GB WiFi SD memory card | 2 GB SD memory card | | | |
| Operating temperature range | -10 °C to +50 °C (14 °F to 122 °F) | | | | |
| Storage temperature range | -10 °C to +50 °C (14 °F to 122 °F) | | | | |
| Operating humidity | Operating and storage 10 % to 95 %, non-condensing | | | | |
| Vibration and shock | 2G, IEC 68-2-26 and 25G, IEC 68-2-29 | | | | |
| Safety standards | CSA (US and CAN): C22.2 No. 61010-1-04, UL: UL STD 61010-1 (2nd Edition), ISA: 82.02.01 | | | | |
| C Tick | IEC/EN 61326-1 | | | | |
| EMI, RFI, EMC | EN61326-1; FCC Part 5 | | | | |
| Users manuals | Czech, English, Finnish, French, German, Italian, Japanese, Korean, Polish, Portuguese, Russian, Simplified Chinese, Spanish, Swedish, Traditional Chinese, Turkish, Dutch, and Hungarian | | | | |

Ordering information

FLK-Ti125 30HZ Industrial-Commercial Thermal Imager
FLK-Ti125 9HZ Industrial-Commercial Thermal Imager
FLK-Ti110 30HZ Industrial-Commercial Thermal Imager
FLK-Ti110 9HZ Industrial-Commercial Thermal Imager
FLK-Ti105 30Hz Industrial-Commercial Thermal Imager
FLK-Ti105 9HZ Industrial-Commercial Thermal Imager
FLK-Ti100 9HZ General Use Thermal Imager

Included with product

Thermal imagers are shipped with ac power adapter, lithium ion smart battery (Ti125 includes 2 each—other models 1 each), USB cable, SD memory card (Fluke Connect WiFi SD Card for Ti125 and Ti110 only), hard carrying case, soft transport bag, adjustable hand strap, printed users manual in English, Spanish, French, German and Simplified Chinese, others on CD, SmartView® software and warranty registration card. Ti125 model also include a two-bay charging base and a multi-format USB memory card reader.

Optional

FLK-TI-VISOR2 Sun visor
FLK-TI-TRIPOD2 Tripod mounting accessory
BOOK-ITP Introduction to Thermography Principles Book
FLK-TI-SBC3 External charging base and power supply
FLK-TI-SBP3 Extra lithium-ion rechargeable smart battery
TI-CAR CHARGER Thermal imager vehicle charger

Fluke Connect Kits

FLK-TI125 30HZ/FCB Ti125 Thermal Imager, 3000FC DMM, A3001FC iFlex Module
FLK-TI105 30HZ/FCA Ti105 Thermal Imager, 3000FC DMM, A3001FC iFlex Module

Fluke Connect modules

FLK-a3000FC AC Current Clamp Module
FLK-a3001FC iFlex™ AC Current Clamp Module
FLK-a3002FC AC/DC Current Module
FLK-v3000FC AC Voltage Module
FLK-v3001FC DC Voltage Module
FLK-t3000FC K-Type Temperature Module
FLK-FC-SD CARD Fluke Connect Wireless SD Card

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