

Ti400, Ti300 and Ti200 Advanced Performance Infrared Cameras

Technical Data

Now compatible with Fluke Connect™ Mobile App

This trio of new Fluke infrared cameras is equipped with LaserSharp® Auto Focus. Yes, there are other auto focus systems on the market but Fluke took it one step further so you get consistently in-focus images, Every. Single. Time. Every infrared camera user knows that focus is the single most important aspect to ensure when conducting an infrared inspection. Without an in-focus image temperature measurements may not be accurate and it's much easier to miss a problem. LaserSharp® Auto Focus tells you exactly where you are focusing. It uses a laser to calculate the distance to your target before it focuses. Place the red laser dot on the object you are inspecting, then pull and release the trigger for a perfect in-focus image.

- Only Fluke Connect[™] gives you instant access to critical data—unlike any other camera on the market to keep your facility up and running
 - Send measurements directly from the inspection site to your boss or client and get answers and approvals instantly
- Detect and communicate issues faster with patented Fluke IR-Fusion[®] technology with AutoBlend[™] mode
- Faster communication with wireless image transfer directly to your PC, Apple* iPhone* or iPad*
- One-handed, easy-to-use user interface
- Ruggedized high resolution 640x480 capacitive touch screen for quick menu navigation
- Capture additional digital images to show location or additional site details with IR-PhotoNotes™ Annotation System
- Standard and radiometric video recording*
- Streaming video (USB and HDMI)
- Text* and voice recording and annotation gets additional details saved with the image file
- Optional interchangeable lenses for greater flexibility in additional applications
- High-temperature measurement (up to 1200 °C on the Ti400)
- Included SmartView* and SmartView Mobile App Analysis and Reporting Software
- *Firmware updates for these features are not available yet in all countries. Users notified via SmartView software when available.

















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

Fluke Connect with ShareLive $^{\text{ns}}$ 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 $^{\text{ns}}$ 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:









Detailed specifications

| Temperature measurement range | | Ti400 | Ti300 | Ti200 | |
|--|--------------------------------------|---|--|-----------------------------|--|
| Incl. an internation promotes the second of the proper community of the proper community of the proper community of the property of the prop | Temperature | | | | |
| Temperature measurement sensorment of the control o | | | | | |
| Securior Securior Company Securior Securior Securior Company Sec | (not calibrated below -10 °C) | (-4 °F to +2192 °F) (-4 °F to +1202 °F) | | | |
| Nest ply number and table) On-screen reflectivity correction Nest ply number and table) On-screen tradestance componants on the control of | | + 2 °C or 2 % (at 25 °C nominal whichever is greater) | | | |
| Characteristics processed background to the composition of the compo | | , , , | | | |
| Emperature compensation New Ne | | Yes (by number and table) | | | |
| Imaging performance Perfor | | | Yes | | |
| Imaging epitromance Page Process Proc | | | | | |
| Danger capture frequency | | | Yes | | |
| December types | | | | | |
| microbolometra, 200 x 190 pixels | | | 1 0 1 | | |
| Thermal sensitivity (NETD) | Detector type | | | | |
| Total pixels Tota | | | | | |
| Infrared spectral band | , , , | | | | |
| Visual (visible light) (camera Visible li | | 76,800 | | 30,000 | |
| Standard infrared lens type 24 * x 17 * | - | | | | |
| Pelet of view 1.31 mRad | Visual (visible light) camera | | Industrial performance 5.0 megapixel | | |
| Spatial resolution (IPOV) | Standard infrared lens type | | | | |
| Minimum focus distance 15 cm (approx. 6 in) | Field of view | 24 ° x 17 ° | | | |
| Optional telephoto infrared lens type, available soon | Spatial resolution (IFOV) | 1.31 mRad | 1.75 mRad | 2.09 mRad | |
| Spatial resolution (IPOV) Spatial resolution (IPOV) O.66 mRad O.87 mRad I.05 mRad IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII | Minimum focus distance | | 15 cm (approx. 6 in) | | |
| Spatial resolution (FOV) | Optional telephoto infrared lens typ | e, available soon | | | |
| Minimum focus distance Optional wide-apple infrared lens type, available soon Field of view Spetial resolution (IFOV) Spet | Field of view | | | | |
| Optional wide-angle infrared lens type, available soon | Spatial resolution (IFOV) | 0.65 mRad | 0.87 mRad | 1.05 mRad | |
| Pield of view 16 * x 34 * | Minimum focus distance | | | | |
| Spatial resolution (FOV) 2.62 mRad 3.49 mRad 4.19 mRad | | | | | |
| Minimum focus distance Sear Sharp' Auto Pocus System Yos | Field of view | | 46 ° x 34 ° | | |
| LaserSharp* Auto Pocus System Yes | Spatial resolution (IFOV) | 2.62 mRad | 3.49 mRad | 4.19 mRad | |
| LaserSharp* Auto Pocus System Advanced Manual Focus Image presentation Palettes Standard Ironbow, Blue-Red, High Contrast, Amber, Amber Inverted, Hot Metal, Grayscale, Grayscale Inverted Ultra Contrast** Ironbow Ultra, Blue-Red Ultra, High Contrast Ultra, Amber Ultra, Amber Inverted Ultra, Hot Metal Ultra, Grayscale Ultra, Grayscale Inverted Ultra, Hot Metal Ultra, Grayscale Ultra, Grayscale Inverted Ultra, Hot Metal Ultra, Grayscale Ultra, Ultra, Amber Ultra, | Minimum focus distance | | 15 cm (approx. 6 in) | | |
| Navanced Manual Focus Yes | Focus mechanism | | | | |
| Image presentation | LaserSharn® Auto Focus System | Yes | | | |
| Palettes | | | | | |
| Palettes | | | 165 | | |
| Standard Ironbow, Blue-Red, High Contrast, Amber, Amber Inverted, Hot Metal, Grayscale Inverted Ultra, Ultra Contrast Ironbow Ultra, Blue-Red Ultra, High Contrast Ultra, Amber Inverted Ultra, Amber Inverted Ultra, Hot Metal Ultra, Grayscale Ultra, Grayscale Inverted Ultra, Hot Metal Ultra, Grayscale Ultra, Grayscale Inverted Ultra, Grayscale Ultra, Grayscale Ultra, Grayscale Inverted Ultra, Hot Metal Ultra, Grayscale Ultra, Grayscale Ultra, Grayscale Ultra, Grayscale Ultra, Grayscale Ultra, Grayscale Inverted Ultra, Hot Metal Ultra, Grayscale Ultra, Grayscale Ultra, Grayscale Ultra, Grayscale Ultra, Grayscale Ultra, Grayscale Inverted Ultra, Grayscale Inverted Ultra, Hot Metal Ultra, Grayscale Ultra, Grayscale Ultra, Grayscale Inverted Ultra, Hot Metal Ultra, Grayscale Ultra, Grayscale Ultra, Grayscale Ultra, Grayscale Ultra, Hot Metal Ultra, Grayscale Ultra, Grayscale Ultra, Ultra, Hot Metal Ultra, Grayscale Ultra, Grayscale Ultra, Hot Metal Ultra, Both State Inverted Ultra, Hot Metal Ultra, Grayscale Ultra, Grayscale Ultra, Hot Metal Ultra, Both State Inverted Ultra, Hot Metal Ultra, Both State Inverted Ultra, Hot Metal Ultra, Both State Inverted Ultra, Hot Metal Ultra, Both State, Fresh Ves Gray Gray Gray Gray Gray Gray Gray Gray | <u> </u> | | | | |
| Ironbow Ultra, Blue-Red Ultra, High Contrast Ultra, Amber Ultra, Amber Inverted Ultra, Hot Metal Ultra, Grayscale Inverted Ultra, Grayscale Inverted Ultra, Grayscale Inverted Ultra, Grayscale Ultra, Grayscale Inverted Ultra, Grayscale Ultra, Grayscale Inverted Ultra, Grayscal | | Ironhow Pluo Pod High C | ontrast Ambor Ambor Inverted Hot Motal C | rayagala Grayagala Inverted | |
| Hot Metal Ultra, Grayscale Inverted Ultra Smooth auto-scaling and manual mode Yes Fast auto-rescale in manual mode Minimum span (in manual mode) Metals storate Muscala storate Muscala storate Mage capture and data storate Image capture and data storate Image capture and data storate Image capture, review, and save capability Storage medium Micro SD Memory Card, on-board flash memory, save-to-USB capability, direct download via USB-to-PC connection Nor-adiometric (bmp) or (jpeg) or fully-radiometric (isS) video*: non-radiometric (MPEG - encoded .AVI) and fully-radiometric (ISS) Non-radiometric (bmp) or (jpeg) or fully-radiometric (isS) video*: non-radiometric (MPEG - encoded .AVI) and fully-radiometric (ISS) Non-radiometric (bmp) or (jpeg) or fully-radiometric (isS) video*: non-radiometric (MPEG - encoded .AVI) and fully-radiometric (ISS) Non-radiometric (bmp) or (jpeg) or fully-radiometric (isS) video*: non-radiometric (MPEG - encoded .AVI) and fully-radiometric (ISS) Non-radiometric (bmp) or (jpeg) or fully-radiometric (isS) video*: non-radiometric (MPEG - encoded .AVI) and fully-radiometric (ISS) Non-radiometric (bmp) or (jpeg) or fully-radiometric (isS) video*: non-radiometric (MPEG - encoded .AVI) and fully-radiometric (ISS) Non-radiometric (bmp) or (jpeg) or fully-radiometric (isS) video*: non-radiometric (MPEG - encoded .AVI) and fully-radiometric (ISS) Non-radiometric (ISS) Non-ra | | | | | |
| Level and span Smooth auto-scaling and manual scaling of level and span Past auto toggibe between manual and auto modes Yes | Olifa Collifast | | | | |
| Fast auto-toggle between manual and auto modes Rest auto-rescale in manual mode Minimum span (in manual mode) Minimum span (in manual mode | Level and span | | | | |
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| Past auto-rescale in manual mode Minimum span (in manual mode 3.0°C (3.6°F) | | Yes | | | |
| Minimum span (in manual mode) 2.0 °C (3.6 °F) Minimum span (in auto mode) 3.0 °C (5.4 °F) IR-Pusions-information Yes Picture-In-Picture (PIP) Yes Full screen infrared Yes Color alarms (temperature alarms) High-temperature, low-temperature, and isotherm (user-selectable) Image capture and data storage Image capture, review, save mechanism One-handed image capture, review, and save capability Storage medium Micro SD Memory Card, on-board flash memory, save-to-USB capability, direct download via USB-to-PC connection Pile formats Non-radiometric (lomp) or (jpeg) or fully-radiometric (is2) Video*: non-radiometric (Jmp, jpg and avi*) flies Export file formats w/SmartView* software BMP, DIB, GIF, JPE, JPE, JPEG, JPG, PNG, TIF, and TIFF Memory review Thumbnall view navigation and review selection Other time-saving and productivity 60 seconds maximum recording time per image; reviewable playback on imager Ri-PhotoNotes** Yes Wi-Pi connectivity Yes, to PC, iPhone*, iPad* and WiFi to LAN* Text annotation* Yes Video recording* Standard and Radiometric Streaming Video Via USB to PC and HDMI to HDMI compatible screen Auto capture (temperature and interval)* | | Vee | | | |
| Minimum span (in auto mode) 3.0 °C (5.4 °F) RF-Pusions Information Full screen infrared Yes Full screen infrared infrared Yes Full | | | | | |
| Picture PiP Yes Yes | | · · | | | |
| Picture-In-Picture (PIP) Yes Full screen infrared Yes AutoBlend™ mode Yes Color alarms (temperature alarms) High-temperature, low-temperature, and isotherm (user-selectable) Image capture, review, save mechanism One-handed image capture, review, and save capability Storage medium Micro SD Memory Card, on-board flash memory, save-to-USB capability, direct download via USB-to-PC connection File formats Non-radiometric (.bmp) or (.jpeg) or fully-radiometric (.is2) Video*: non-radiometric (.bmpc, .jpg and .avi*) files Export file formats w/SmartView* software BMP, DIB, GIF, JPE, JFIF, JPEG, JPG, PNG, TIF, and TIF Memory review Thumbnail view navigation and review selection Other time-saving and productivity features Yes Wi-Fi connectivity Fig. Special of the per image; reviewable playback on imager IR-PhotoNotes™ Yes Wi-Fi connectivity Yes, to PC, !Phone*, iPad* and WiFi to LAN* Text annotation* Yes Video recording* Standard and Radiometric Streaming Video Via USB to PC and HDMI to HDMI compatible screen CIXIX™ Wireless System* Yes* Fluke Connect control and operation (for Yes No | | | 3.0 0 (0.4 1) | | |
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| Remote control and operation (for Yes No No | | | | | |
| | | Ves | | No | |
| | | 100 | 140 | 140 | |

^{*} Firmware updates for these features are not available yet in all countries.. Users notified via SmartView software when available.



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 | |
| Ruggedized Touchscreen | 8.9 cm (3.5 in) diagonal landscape color VGA (640 x 480) LCD with backlight | |
| Display (Capacitive) | 0.0 till (0.0 til) diagonal lanascape coloi von (0.70 k 400) nob with backingni | |
| Controls and adjustments | User selectable temperature scale (°C/°F) | |
| | Language selection | |
| | Time/Date set Emissivity selection | |
| | Reflected background temperature compensation | |
| | Transmission correction | |
| | User selectable hot spot and cold spot, and center point on the image | |
| | Expandable-contractable Measurement Box with MIN-AVG-MAX temp | |
| | Color alarms | |
| | User selectable backlight setting | |
| G-# | Graphical information display preference | |
| Software | SmartView* and SmartView Mobile App - full analysis and reporting software | |
| Batteries | Two lithium ion rechargeable smart battery packs with five-segment LED display to show charge level, all models | |
| Battery life | Four+ hours continuous use per battery pack (assumes 50 % brightness of LCD and average usage) | |
| Battery charge time | 2.5 hours to full charge | |
| AC battery charging | Two-bay ac battery charger (110 V ac to 220 V ac, 50/60 Hz) (included), or in-imager charging. AC mains adapters included. Optional 12 V automotive charging adapter. All models | |
| AC operation | AC operation with included power supply (110 V ac to 220 V ac, 50/60 Hz). AC mains adapters included. | |
| Power saving | User selectable sleep and power off modes | |
| Safety standards | UL 61010-1:2012 CAN/CSA-C22.2 No.61010-1-12 IEC 61010-1 3rd Edition (2010) | |
| Electromagnetic compatibility | EN 61326-1:2006 IEC 61326-1:2005 | |
| C Tick | IEC/EN 61326-1 | |
| US FCC | CFR 47, Part 15 Subpart B Class B | |
| Vibration | 0.03 g2/Hz (3.8 grms), 2.5g IEC 68-2-6 | |
| Shock | 25 g, IEC 68-2-29 | |
| Drop | Engineered to withstand 2 meter (6.5 feet) with standard lens | |
| Size (H x W x L) | 27.7 cm x 12.2 cm x 16.7 cm (10.9 in x 4.8 in x 6.5 in) | |
| Weight (battery included) | 1.04 Kg (2.3 lb) | |
| Enclosure rating | IP54 (protected against dust, limited ingress; protection against water spray from all directions) | |
| Warranty | Two-years (standard), extended warranties are available. | |
| 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 | |



Get the SmartView[®] Mobile app

Bring your office to your inspection site with the SmartView Mobile App. Create an inspection report on site and communicate directly to your client or manager via your Apple® iPhone® or iPad®.

Optimize: Adjust the image to present problems in the most effective way. **Analyze:** Use markers and other tools to quantify the severity of problems. **Communicate:** Share inspection results by emailing images or reports.

Fluke SmartView Mobile will increase the return on your infrared camera investment.



Ordering information

FLK-Ti400 9 Hz Thermal Imager, 9 Hz FLK-Ti400 60 Hz Thermal Imager, 60 Hz FLK-Ti300 9 Hz Thermal Imager, 9 Hz FLK-Ti300 60 Hz Thermal Imager, 60 Hz FLK-Ti200 9 Hz Thermal Imager, 9 Hz FLK-Ti200 60 Hz Thermal Imager, 60 Hz

Included

Thermal imager with standard infrared lens; ac power supply and battery pack charger (including mains adapters); two, rugged lithium ion smart battery packs; USB cable; HDMI video cable; SmartView* software available via free download; rugged, hard carrying case; soft transport bag; adjustable hand strap; warranty registration card.

Optional accessories

FLK-LENS/TELE2 Telephoto infrared lens (2X magnification) FLK-LENS/WIDE2 Wide-angle infrared lens TI-CAR-CHARGER Thermal imager vehicle charger FLK-TI-VISOR3 Thermal imager visor **BOOK-ITP** Introduction to Thermography Principles book **TI-TRIPOD3** Tripod mounting base accessory FLK-Ti-SBP3 Additional smart battery FLK-TI-SBC3 Additional Smart Battery Charger

Kits

FLK-T1400 60HZ/FCA* Thermal Imager, 3000 FC DMM, a3001FC iFlex Module FLK-TI300 60HZ/FCA* Thermal Imager, 3000 FC DMM, a3001FC iFlex Module FLK-TI200 60HZ/FCA* Thermal Imager, 3000 FC DMM, a3001FC iFlex Module FLK-T1400 60HZ/FCC* Thermal Imager, 3-a3001FC iFlex Modules, 805 Vibration Tester, WiFi SD Card FLK-TI400 9HZ/FCA Thermal Imager, 3000 FC DMM, a3001FC iFlex Module FLK-TI300 9HZ/FCA Thermal Imager, 3000 FC DMM, a3001FC iFlex Module FLK-TI200 9HZ/FCA Thermal Imager, 3000 FC DMM, a3001FC iFlex Module FLK-TI400 9HZ/FCC Thermal Imager, 3-a3001FC iFlex Modules, 805 Vibration Tester, WiFi SD Card

Visit the Fluke website to get complete details on these products or kits or ask your local Fluke sales representative.

*Only available in certain countries.

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