

TECHNICAL DATA

Ti480, Ti450, Ti400 and Ti300 Infrared Cameras

The Fluke Professional Series



SUPERIOR IMAGE QUALITY

SPATIAL RESOLUTION Ti480 0.93 mRad

Ti450 and Ti400 1.31 mRad

Ti300 1.75 mRad

RESOLUTION Ti480 640 x 480 SuperResolution mode: 1280 x 960

Ti450 320 x 240 SuperResolution mode: 640 x 480

Ti400 320 x 240

Ti300 240 x 180

 FIELD OF VIEW

 Ti480
 34 °H x 24 °V

Ti450, Ti400, Ti300 24 °H x 17 °V



Fluke Connect[®] compatible

Focus redefined.

- Capture a clear, accurate image focused throughout the field of view with **MultiSharp™ Focus**. Simply point and shoot—the camera automatically processes a stack of images focused near and far (Ti480 and Ti450)
- Get an instant in-focus image of your designated target.
 LaserSharp[®] Auto Focus, exclusive to Fluke, uses a built-in laser distance meter that calculates and displays the distance from your designated target with pinpoint* accuracy
- Get 4x the pixel data with **SuperResolution**, which captures multiple images and combines them to create a 1280 x 960 image (Ti480) or a 640 x 480 image (Ti450)
- Save time-wirelessly sync images directly from your camera to the **Fluke Connect**[®] **system**, and attach to an asset record or work order. Make faster decisions by accessing inspection measurements from anywhere. Team members can instantly see the same data, at the inspection site and the office.
- Reduce the need to take notes in the field with two helpful features:
 - IR-PhotoNotes[™] annotation system—captures digital images of the surrounding area to reference conditions or actual location
 - Any additional details can also be saved to the file with voice annotation
- Highlight areas that are outside your pre-set 'normal' temperature ranges quickly with color alarms
- See the details you need with interchangeable smart lenses—2x and 4x telephoto and wide angle—no calibration required
- Included Fluke Connect^{*} SmartView^{*} desktop software: Optimize thermal images, perform analytics, generate quick, customizable, robust reports and export images to the format of your choice in the cloud







Powerful, new, easy-to-use Fluke Connect[®] SmartView[®] desktop software.

Now available, a comprehensive and connected software platform that represents the future of integrated equipment maintenance, monitoring, analysis and reporting. It's easier than ever to optimize thermal images, perform analytics, generate quick, customizable, robust reports, and export images to the format of your choice in the cloud. And you will be able to integrate with Fluke Connect—the largest integrated system of maintenance software and tools in the world.

- Modern visual design
- · Intuitive navigation-easier to learn, easier and faster to work in
- · Simplified work flows
- · Simplified reporting workflow and better report templates
- · Fluke Connect Cloud storage

Fluke Connect SmartView[®] desktop software is included with your camera purchase.

Download at fluke.com/FlukeConnectTI



100 % Focused–Every object. Near and far. MultiSharp[™] Focus.

MultiSharp Focus, available on the Ti450.



Detailed specifications

	Ti480	Ti450	Ti400	Ti300
Key features				
Detector resolution	640 x 480 (307,200) or 1280 x 960 with SuperResolution	320 x 240 (76,800 pixels) or 640 x 480 with SuperResolution	320 x 240 (76,800 pixels)	240 x 180 (43,200 pixels)
SuperResolution	Yes, on camera and in software. Captures and combines 4x the data to create a 1280 x 960 image	Yes, on camera and in software. Captures and combines 4x the data to create a 640 x 480 image		-
IFOV with standard lens (spatial resolution)	0.93 mRad, D:S 1065:1	1.31 mRad	, D:S 753:1	1.75 mRad, D:S 565:1
Field of view	34 °H x 24 °V		24 °H x 17 °V	
Minimum focus distance		15 cm (ap	prox. 6 in)	
IR-Fusion* technology		Full s	creen	
MultiSharp™ Focus	Yes, focused near and far,	throughout the field of view		-
LaserSharp∗ Auto Focus		Yes, for consistently in-focus	images. Every. Single. Time.	
Laser distance meter	Yes, calculates	distance to the target for precisely	r focused images and displays dis	ance on screen
Advanced manual focus		Ye	es	
Wireless connectivity	Yes, to PC, iPhone	and iPad® (iOS 4s and later), And	roid™ 4.3 and up, and WiFi to LAM	(where available)
Fluke Connect* app compatible	Yes*, connect your camera	to your smartphone, and images ta and sh		luke Connect app for saving
Fluke Connect* Assets optional software	Yes*, assign image	es to assets and create work orders	. Easily compare measurement typ	oes in one location.
Fluke Connect [*] Instant Upload	Yes*, connect your camera to yo	our building's WiFi network, and ir viewing on your s		to the Fluke Connect system for
Fluke Connect* tool compatible	Yes*, connects wirele	essly to select Fluke Connect enabl	ed tools and displays measureme	nts on camera screen.
IR-Fusion [*] technology		Yes, adds the context of the visib	le details to your infrared image	
AutoBlend [™] mode	Min	, Mid, Max IR plus full visible on ca	mera; continously variable in soft	ware
Picture-In-Picture (PIP)		Ye	es	
Ruggedized touchscreen display		3.5 inch (landscap	pe) 640 x 480 LCD	
Rugged, ergonomic design for one-handed use		Ye	es	
Thermal sensitivity (NETD)**	≤ 0.05 °C at 30 °C target temp (50 mK)	≤ 0.03 °C at 30 °C target temp (30 mK)	≤ 0.05 °C at 30 °C	target temp (50 mK)
Level and span	Smooth auto and manual scaling			
Fast auto toggle between manual and auto modes	Yes			
Fast auto-rescale in manual mode	Yes			
Minimum span (in manual mode)		2.0 °C	(3.6 °F)	
Minimum span (in auto mode)		3.0 °C	(5.4 °F)	
Built-in digital camera (visible light)		51	ИР	
Frame rate		60 Hz or 91	Hz versions	
Laser pointer		Ye	es	
LED light (torch)		Ye	es	
Digital zoom	2x a:	nd 4x		-
Data storage and image capture				
Extensive memory options	Removable 4 GB micro SD memory card, 4 GB internal flash memory, save to USB flash drive capability, upload to Fluke Cloud™ for permanent storage			
Image capture, review, save mechanism		One-handed image capture,	review, and save capability	
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Detailed specifications

nect desktop software mum recording time p Non-radio tream of the camera d software on a PC; via V luke Connect SmartVie Two lithium ion sma attery lepending usage) Two-bay battery char AC operation	a) or (jpeg) or fully-radiometric (.is2); no analysis software required for non-radiometric (.bmp, .jpg and .avi) files Thumbnail and full screen review =-full analysis and reporting software with access to the Fluke Connect system Bitmap (.bmp), GIF, JPEG, PNG, TIFF er image; reviewable playback on camera, optional bluetooth headset available frequired Yes (5 images) Yes Standard and radiometric ometric (MPEG - encoded .AVI) and fully-radiometric (.IS3) isplay on your PC, smartphone, or TV monitor. Via USB, WiFi hotspot, or WiFi netw WiFi hotspot to the Fluke Connect* app on a smartphone; or via HDMI to a TV mon ew* desktop software or Fluke Connect mobile app Yes rt battery packs with five-segment LED display to show charge level 3-4 hours per battery (*Actual life varies depending on settings and usage) 2.5 hours to full charge ger or in-imager charging. Optional 12 V automotive charging adapter with included power supply (100 V AC to 240 V AC, 50/60 Hz) User selectable sleep and power off modes -20 °C to +1200 °C (-4 °F to +2192 °F)
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°F)	-20 °C to +1200 °C (-4 °F to +2192 °F) -20 °C to +650 °C (
°F)	
± 2	2 °C or 2 % (at 25 °C nominal, whichever is greater)
	Yes (both value and table)
	Yes
	Yes
Yes	
nbow, Blue-Red, High	Contrast, Amber, Amber Inverted, Hot Metal, Grayscale, Grayscale Inverted
ıe-Red Ultra, High Cor	ntrast Ultra, Amber Ultra, Amber Inverted Ultra, Hot Metal Ultra, Grayscale Ultra, G Inverted Ultra
High tem	perature, low temperature, and isotherms (within range)
	7.5 μm to 14 μm (long wave)
	-10 °C to +50 °C (14 °F to 122 °F)
	20 °C to +50 °C (-4 °F to 122 °F) without batteries
	10 % to 95 % non-condensing
	Yes
	Hot and cold spot markers
	3 user-definable spot markers
Expandable-co	ontractible measurement box with MIN-MAX-AVG temp display
-	61010-1: Overvoltage category II, Pollution Degree 2
100	26-1: Basic EM environment. CISPR 11: Group 1, Class A
	IEC 61326-1
	CFR 47, Part 15 Subpart B
	0.03 g2/Hz (3.8 g), 2.5 g IEC 68-2-6
	0.00 92/112 [0.0 9], 2.0 9 110 00 2.0
	25 g IEC 68-2-29
IEC 613	25 g, IEC 68-2-29
IEC 613 Engineere	ed to withstand 2 meter (6.5 feet) drop with standard lens
IEC 613 Engineere	ed to withstand 2 meter (6.5 feet) drop with standard lens .7 cm x 12.2 cm x 16.7 cm (10.9 in x 4.8 in x 6.5 in)
IEC 613 Engineere 27	ed to withstand 2 meter (6.5 feet) drop with standard lens .7 cm x 12.2 cm x 16.7 cm (10.9 in x 4.8 in x 6.5 in) 1.04 kg (2.3 lb)
IEC 613 Engineere 27 29: IP54 (protected ag	ed to withstand 2 meter (6.5 feet) drop with standard lens .7 cm x 12.2 cm x 16.7 cm (10.9 in x 4.8 in x 6.5 in) 1.04 kg (2.3 lb) gainst dust, limited ingress; protection against water spray from all directions)
IEC 613 Engineere 27 29: IP54 (protected ag Two	ed to withstand 2 meter (6.5 feet) drop with standard lens .7 cm x 12.2 cm x 16.7 cm (10.9 in x 4.8 in x 6.5 in) 1.04 kg (2.3 lb)

Ordering information

FLK-Ti480 60 Hz Infrared Camera FLK-Ti480 9 Hz Infrared Camera FLK-Ti450 60 Hz Infrared Camera FLK-Ti450 9 Hz Infrared Camera FLK-Ti400 60 Hz Infrared Camera FLK-Ti300 60 Hz Infrared Camera FLK-Ti300 9 Hz Infrared Camera

Included

Infrared camera with standard infrared lens; AC power supply and battery pack charger (including universal AC adapters); two rugged lithium ion smart battery packs; USB cable; HDMI video cable; 4 GB micro SD card; rugged, hard carrying case; soft transport bag and adjustable hand strap. **Available by free download:** Fluke Connect[®] SmartView[®] desktop software and user manual.

Optional accessories

FLK-LENS/TELE2 Infrared Telephoto Lens
(2X magnification), Ti480, Ti450, Ti400, Ti300
FLK-LENS/4XTELE2 Infrared Telephoto Lens
(4X magnification), Ti450, Ti400, Ti300
FLK-LENS/WIDE2 Infrared Wide Angle Lens, Ti480, Ti450, Ti400, Ti300
TI-CAR-CHARGER Car Charger
FLK-TI-VISOR3 Sun Visor
BOOK-ITP Introduction to Thermography Principles Book
TI-TRIPOD3 Tripod Mounting Accessory
FLK-TI-BLUETOOTH Bluetooth headset
FLK-TI-SBC3B Additional Smart Battery
FLK-TI-SBC3B Additional Smart Battery Charger

Kits

FLK-TI400 60HZ/FCA* Infrared Camera, 3000 FC DMM, a3001FC iFlex Module FLK-TI300 60HZ/FCA* Infrared Camera, 3000 FC DMM, a3001FC iFlex Module FLK-TI400 60HZ/FCC* Infrared Camera, 3-a3001FC iFlex Modules, 805 Vibration Tester

FLK-TI400 9HZ/FCA Infrared Camera, 3000 FC DMM, a3001FC iFlex Module

FLK-TI300 9HZ/FCA Infrared Camera, 3000 FC DMM, a3001FC iFlex Module

FLK-TI400 9HZ/FCC Infrared Camera, 3-a3001FC iFlex Modules, 805 Vibration Tester

Visit **www.fluke.com** to get complete details on these products or ask your local Fluke sales representative.

*Only available in certain countries.

RF connection time (binding time) may take up to 1 minute.

The Expert Series

Go expert with the Fluke TIX580, TiX560, TiX520 or TiX500, and get up to 640 x 480 resolution along with maximum flexibility of a screen that rotates a full 240 degrees and a 5.7 inch touchscreen LCD. Includes in-field analysis and post-capture image processing on camera, along with other expert-level features and more lens options.





Preventive maintenance simplified. Rework eliminated.

Save time and improve the reliability of your maintenance data by wirelessly syncing measurements using the Fluke Connect^{*} system.

- Eliminate data-entry errors by saving measurements directly from the tool and associating them with the work order, report or asset record.
- Maximize uptime and make confident maintenance decisions with data you can trust and trace.
- Move away from clipboards, notebooks and multiple spreadsheets with a wireless one-step measurement transfer.
- Access baseline, historical and current measurements by asset.
- Share your measurement data using ShareLiveTM video calls and emails.
- The Ti4XX Series and Ti300 is part of a growing system of connected test tools and equipment maintenance software. Visit the website to learn more about the Fluke Connect[®] system.

Find out more at flukeconnect.com





All trademarks are the property of their respective owners. WiFi or cellular service required to share data. Smartphone, wireless service and data plan not included with purchase. First 5 GB of storage is free. Phone support details can be viewed at **fluke.com/phones**.

Smart phone wireless service and data plan not included with purchase. Fluke Connect is not available in all countries.

Fluke. Keeping your world up and running.®

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