

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

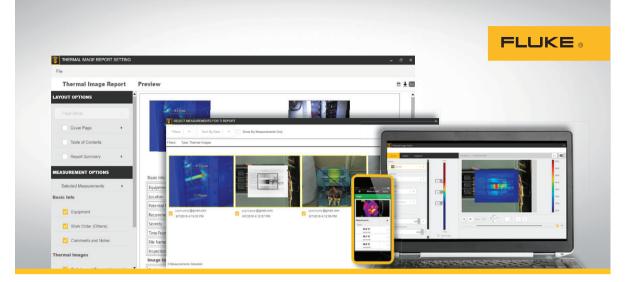
Ti450, Ti400, Ti300 24 °H x 17 °V



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* 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® desktop software.

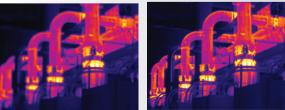
Now available, a comprehensive and connected software platform that represents the future of integrated equipment maintenance, monitoring, analysis and reporting. It's easier than ever to optimize thermal images, perform analytics, generate quick, customizable, robust reports, and export images to the 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 desktop software is included with your camera purchase.

Download at fluke.com/FlukeConnectTI

$100\,\%$ Focused–Every object. Near and far. MultiSharp $^{\!\scriptscriptstyle{TM}}$ Focus.



Manual focus

MultiSharp Focus



Detailed specifications

-	Ti480	Ti450	Ti400	Ti300	
Was factories	11400	11450	11400	11300	
Key features	l				
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)		
IFOV with optional 2x telephoto smart lens	0.46 mRad. D:S is 2145.1	0.65 mRad,	D:S 1529:1	0.87 mRad, D:S 1147:1	
Field of view	17 °H x 12 °V		12 °H x 9 °V		
Minimum focus distance	45 cm (approx. 18 in)				
IR-Fusion* technology	Picture-in-picture and full screen				
IFOV with optional 4x telephoto smart lens	0.23 mRad. D:S is 4300:1	ad. D:S is 4300:1 0.33 mRad, D:S 2941:1 0.44 mRad, D:S 2208			
Field of view	8.5 °H x 6 °V		6.0 °H x 4.5 °V		
Minimum focus distance	1.5 m (approx. 5 ft)				
IR-Fusion* technology	Picture-in-picture and full screen				
IFOV with optional wide-angle smart lens	1.85 mRad. D:S is 525:1	2.62 mRad		3.49 mRad, D:S 283:1	
Field of view	68 °H x 48 °V		46 °H x 34 °V	,	
Minimum focus distance	15 cm (approx. 6 in)				
IR-Fusion= technology	Full screen				
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 focused images and displays distance on screen				
Advanced manual focus		Ye			
Wireless connectivity	Yes, to PC, iPhone∗ and iPad® (iOS 4s and later), Android™ 4.3 and up, and WiFi to 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 in one location.				
Fluke Connect* Instant Upload	Yes*, connect your camera to your building's WiFi network, and images taken automatically upload to the Fluke Connect system for viewing on your smartphone or PC				
Fluke Connect* tool compatible	Yes*, connects wirele	essly to select Fluke Connect enabl	ed tools and displays measuremen	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	oe) 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	l manual scaling		
Fast auto toggle between manual and auto modes		Ye	es		
Fast auto-rescale in manual mode		Ye	es		
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	ЛР		
Frame rate		60 Hz or 9	Hz versions		
Laser pointer		Ye	es		
LED light (torch)		Ye			
Digital zoom	2x a	nd 4x			
Data storage and image capture					
Extensive memory options	Removable 4 GB micro SD men	nory card, 4 GB internal flash mem permanei		lity, upload to Fluke Cloud™ fo	
Image capture, review, save mechanism	One-handed image capture, review, and save capability				
· · · · · · · · · · · · · · · · · · ·	One-nanded image capture, review, and save capability				

^{*}Fluke Connect analysis and reporting software is available in all countries but Fluke Connect is not. Please check availability with your authorized Fluke distributor.
** Best possible



Detailed specifications

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Image file formats	Ti480	Ti450	Ti400	Ti300		
maye me formats	Non-radiometric (.bmp) or (.jpeg) or fully-radiometric (.is2); no analysis software required for non-radiometric (.bmp, .jpg and .av)! files					
Memory review	Thumbnail and full screen review					
Software	Fluke Connect desktop software—full analysis and reporting software with access to the Fluke Connect system					
Export file formats with Fluke Connect® desktop software	Bitmap (.bmp), GIF, JPEG, PNG, TIFF					
Voice annotation	60 seconds maximum recording time per image; reviewable playback on camera, optional bluetooth headset available but not required					
IR-PhotoNotes™	Yes (5 images)					
Text annotation	Yes					
Video recording	Standard and radiometric					
File formats video	Non-radiometric (MPEG - encoded .AVI) and fully-radiometric (.IS3)					
Remote display viewing	Yes, see the live stream of the camera display on your PC, smartphone, or TV monitor. Via USB, WiFi hotspot, or WiFi network to Fluke Connect software on a PC; via WiFi hotspot to the Fluke Connect app on a smartphone; or via HDMI to a TV monitor					
Remote control operation	Yes, through Fluke Connect desktop * software or Fluke Connect mobile app —					
Auto capture (temperature and interval)		Yes				
MATLAB≋ and LabVIEW® tool boxes	Integrate camera data, infrared video and images into these software platforms to support R&D analysis		-			
Battery						
Batteries (field-replaceable, rechargeable)	Two lithit	m ion smart battery packs with five-se	egment LED display to show cl	harge level		
Battery life	3-4 hours per battery (*Actual life varies depending on settings and usage)					
Battery charge time	2.5 hours to full charge					
Battery charging system	Two-bay battery charger or 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	User selectable sleep and power off modes					
Temperature measurement						
Temperature measurement range (not calibrated below -10 °C)	≤ -20 °C to +800 °C (-4 °F to 1472 °F)	-20 °C to +1200 °C (-4	°F to +2192 °F)	-20 °C to +650 °C (-4 °F to +1202 °F)		
Accuracy	± 2 °C or 2 % (at 25 °C nominal, whichever is greater)					
On-screen emissivity correction	Yes (both value and table)					
On-screen reflected background temperature		Yes				
compensation						
· · · · · · · · · · · · · · · · · · ·		Yes				
On-screen transmission correction	Y	Yes				
On-screen transmission correction Live line marker		es				
On-screen transmission correction Live line marker Color palettes Standard palettes	8: Ironbow, Blue	es -Red, High Contrast, Amber, Amber Inv				
On-screen transmission correction Live line marker Color palettes Standard palettes Ultra Contrast** palettes	8: Ironbow, Blue	es	nber Inverted Ultra, Hot Metal			
On-screen transmission correction Live line marker Color palettes Standard palettes Ultra Contrast™ palettes	8: Ironbow, Blue	es -Red, High Contrast, Amber, Amber Inva, a, High Contrast Ultra, Amber Ultra, Am Inverted Ul	nber Inverted Ultra, Hot Metal Itra			
On-screen transmission correction Live line marker Color palettes Standard palettes Ultra Contrast** palettes General specifications Color alarms (temperature alarms)	8: Ironbow, Blue	es -Red, High Contrast, Amber, Amber Inva, a, High Contrast Ultra, Amber Ultra, Am Inverted Ul High temperature, low temperature, a	nber Inverted Ultra, Hot Metal ltra and isotherms (within range)			
On-screen transmission correction Live line marker Color palettes Standard palettes Ultra Contrast** palettes General specifications Color alarms (temperature alarms) Infrared spectral band	8: Ironbow, Blue	es -Red, High Contrast, Amber, Amber Inva, a, High Contrast Ultra, Amber Ultra, Am Inverted Ultra, High temperature, low temperature, 2.5 µm to 14 µm (l	nber Inverted Ultra, Hot Metal ltra and isotherms (within range) ong wave)			
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On-screen transmission correction Live line marker Color palettes Standard palettes Ultra Contrast** palettes Ultra Contrast** palettes Color alarms (temperature alarms) Infrared spectral band Operating temperature Storage temperature Relative humidity Center-point temperature measurement Spot temperature User-definable spot markers Center box Safety Electromagnetic compatibility Australian RCM US FCC Ulbration Shock Drop Size (H x W x L) Weight (battery included) Enclosure rating	8: Ironbow, Blue 8: Ironbow Ultra, Blue-Red Ultr	High Contrast, Amber, Amber Inva. A, High Contrast Ultra, Amber Ultra, Amber Inva. A, High Contrast Ultra, Amber Ultra, Amber Ultra, Amber Inva. 7.5 µm to 14 µm [i -10 °C to +50 °C [-4 °F to 122. 20 °C to +50 °C [-4 °F to 122. 10 % to 95 % non-C. Yes Hot and cold spot 3 user-definable sg. andable-contractible measurement box IEC 61010-1: Overvoltage catego IEC 61326-1: Basic EM environment IEC 61326-1: General Embersion (EC 61326) CFR 47, Part 18 S 0.03 g2/Hz (3.8 g), 2.5 25 g, IEC 68- Engineered to withstand 2 meter (F. 6.1) 27.7 cm x 12.2 cm x 16.7 cm [1.04 kg] (2.3)	and isotherms (within range) ong wave) "I to 122 "F] "F to 122 "F] "F without batteries condensing t markers t markers t with MIN-MAX-AVG temp dis try II, Pollution Degree 2 t. CISPR 11: Group 1, Class A 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1	Ultra, Grayscale Ultra, Graysca		
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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* desktop software and user manual.

Optional accessories

FLK-LENS/TELE2 Infrared Telephoto Lens (2X magnification)
FLK-LENS/4XTELE2 Infrared Telephoto Lens (4X magnification)

(4X magnification)
FLK-LENS/WIDE2 Infrared Wide Angle Lens

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-SBP3 Additional Smart Battery
FLK-TI-SBC3B Additional Smart Battery Charger

Kits

FLK-T1400 60HZ/FCA* Infrared Camera, 3000 FC DMM, a3001FC iFlex Module

FLK-TI300 60HZ/FCA* Infrared Camera, 3000 FC DMM, a3001FC iFlex Module

 $\begin{tabular}{ll} FLK-TI400 & 60HZ/FCC^* & Infrared Camera, 3-a3001FC & iFlex Modules, 805 & Vibration Tester \\ \end{tabular}$

FLK-T1400 9HZ/FCA Infrared Camera, 3000 FC DMM, a3001FC iFlex Module

FLK-T1300 9HZ/FCA Infrared Camera, 3000 FC DMM, a3001FC iFlex Module

FLK-T1400 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 640×480 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 ShareLive™ 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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