Fluke Ti300 Pro Specs Provided by www.AAATesters.com



TECHNICAL DATA

Ti480 PRO, Ti450 PRO, Ti400 PRO and Ti300 PRO Infrared Cameras

The Fluke Professional Series





SPATIAL RESOLUTION

Ti480 PRO 0.93 mRad

Ti450 PRO 1.31 mRad

Ti400 PRO 1.31 mRad

Ti300 PRO 1.75 mRad

RESOLUTION

Ti480 PRO 640 x 480

SuperResolution mode: 1280 x 960

Ti450 PRO 320 x 240

SuperResolution mode: 640 x 480

Ti400 PRO 320 x 240

Ti300 PRO 240 x 180

FIELD OF VIEW

Ti480 PRO 34 °H x 24 °V

Ti450 PRO 24 °H x 17 °V

Ti400 PRO 24 °H x 17 °V

Ti300 PRO 24 °H x 17 °V

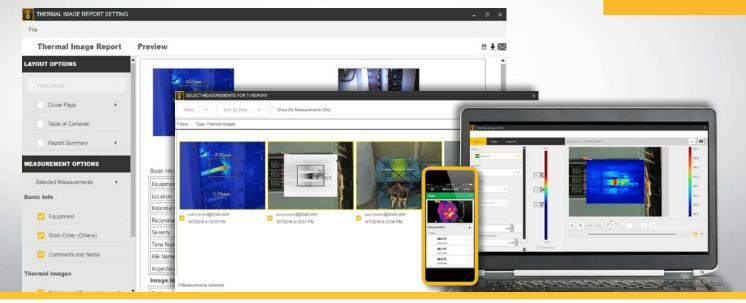


Fluke Connect® compatible

The Fluke PRO series cameras introduce a leading-edge visual infrared experience. These thermal imagers feature our smartest, most intuitive user interface and increased thermal sensitivity to capture the smallest differences. Equipped with the latest technology for on-screen clarity and lens compatibility to capture targets tiny-to-large, our best-selling cameras just got better.

- Increased sensitivity to visualize temperature differences, NETD for the Ti450 PRO is ≤ 0.025 °C at 30 °C target temp (25 mK)
- Easier to visualize and diagnose issues with sharper on-screen images, multiple rectangle markers and 9 color palettes
- More intuitive visual interface, improved, user-tested, touch screen interface
- More flexibility to visualize targets—tiny to large with interchangeable smart lenses—no calibration required, 2x and 4x telephoto, wide angle and macro lenses
- Capture a clear, accurate image focused throughout the field of view with MultiSharp™ Focus (Ti450 PRO and Ti480 PRO)
- Get an instant in-focus image of your designated target with LaserSharp* Auto Focus
- Get 4x the pixel data with SuperResolution, which captures multiple images and combines them to create up to 1280 x 960 images (Ti450 PRO and Ti480 PRO)
- Reduce the need to take notes in the field with IR-PhotoNotes[™] and voice annotations
- Highlight areas that are outside your pre-set 'normal' temperature ranges quickly with color alarms
- Save time by wirelessly syncing images directly from your camera to the Fluke Connect® system, and attaching them to an asset record or work order







Powerful, easy-to-use Fluke Connect®

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

Download at flukeconnect.com

Fluke Connect and Fluke Connect cloud storage not available in all countries.

100 % Focused-Every object. Near and far. MultiSharp™ Focus.







MultiSharp Focus, available on the Ti450 PRO and Ti480 PRO



Detailed specifications

	Ti480 PRO	Ti450 PRO	Ti400 PRO	TI300 PRO	
Key features					
Infrared Resolution	640 x 480 (307,200 pixels)	320 x 240 (76,800 pixels)	320 x 240 (76,800 pixels)	240 x 180 (43,200 pixels)	
SuperResolution	Yes, in software. Captures and combines 4x the data to create a 1280 x 960 image	Yes, 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 (approx. 6 in)				
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	Yes				
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, create work orders, and 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*, five modes of image blending (AutoBlend™ mode, Picture-in-Picture (PIP), IR/Visible alarm, Full IR, Full visible light) add the context of the visible details to your infrared image				
IR-Fusion [®] technology	Yes, adds the context of the visible details to your infrared image				
Ruggedized touchscreen display	3.5 inch (landscape), 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)	\leq 0.025 °C at 30 °C target temp (25 mK)	≤0.04 °C @ 30 °C t	arget temp (40 mK)	
Level and span		Smooth auto and	l 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)	5MP				
Frame rate	60 Hz or 9 Hz versions				
Laser pointer	Yes				
LED light (torch)	Yes				
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 for permanent storage				
Image capture, review, save mechanism	One-handed image capture, review, and save capability				
Image file formats	Non-radiometric (.bmp) or (.jpeg) or fully-radiometric (.is2); no analysis software required for non-radiometric (.bmp, .jpg and .avi) files				
Memory review	Thumbnail and full screen review				
Software	SmartView* 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				
ile 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 SmartView* 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 SmartView* software or Fluke Connect mobile app				
Auto capture (temperature and interval)	Yes				

^{*}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

	Ti480 PRO	Ti450 PRO	Ti400 PRO	Ti300 PRO		
Battery						
Batteries (field-replaceable, rechargeable)	Two lithium ion smart battery packs with five-segment LED display to show charge level					
Battery life	2-3 hours per battery (actual life varies depending on settings and usage)	ries depending 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	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)	≤ -10 °C to +1000 °C (-14 °F to 1832 °F)	-10 °C to 1500 °C (14 °F to 2732 °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 compensation	Yes					
On-screen transmission correction	Yes					
Live line marker		Yes				
Color palettes						
Standard palettes	9: Rainbow, Ironbow, Blue-Red, High Contrast, Amber, Amber Inverted, Hot Metal, Grayscale, Grayscale Inverted					
Ultra Contrast™ palettes	9: Rainbow, Ironbow, Blue-Red, High Contrast, Amber, Amber Inverted, Hot Metal, Grayscale, Grayscale Inverted					
Lens compatibility						
Macro-25 micron lens: 25 MAC2	Yes					
2 x telephoto lens: TELE 2	Yes					
4 x telephoto lens: TELE4	Yes					
Wide angle lens: WIDE 2	Yes					
General specifications						
Color alarms (temperature alarms)	High temperature, low temperature, and isotherms (within range)					
Infrared spectral band	7.5 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 (-4 °F to 122 °F) without batteries					
Relative humidity	10 % to 95 % non-condensing					
Center-point temperature measurement		Ye	es			
Spot temperature	Hot and cold spot markers					
User-definable spot markers	3 user-definable spot markers					
Center box	Up to 3 expandable-contractible measurement box with MIN-MAX-AVG temp display					
Safety	IEC 61010-1: Overvoltage category II, Pollution Degree 2					
Electromagnetic compatibility	IEC 61326-1: Basic EM environment. CISPR 11: Group 1, Class A					
Australian RCM		IEC 61326-1				
US FCC		CFR 47, Part 15 Subpart C Sections 15.207, 15.209, 15.249				
Vibration	0.03 g2/Hz (3.8 g), 2.5 g IEC 68-2-6					
Shock	25 g, IEC 68-2-29					
Drop	Engineered to withstand 2 meter (6.5 feet) drop 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	IEC 60529: 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					
RoHS compliant		Ye	es			







Ordering information

FLK-Ti480 PRO 60 Hz Infrared Camera FLK-Ti480 PRO 9 Hz Infrared Camera FLK-Ti450 PRO 60 Hz Infrared Camera FLK-Ti450 PRO 9 Hz Infrared Camera FLK-Ti400 PRO 60 Hz Infrared Camera FLK-Ti400 PRO 9 Hz Infrared Camera FLK-Ti300 PRO 60 Hz Infrared Camera FLK-Ti300 PRO 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: SmartView desktop software and user manual.

Optional accessories

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

FLK-LENS/WIDE2 Infrared Wide Angle Lens

FLK-LENS/MACRO2 Infrared Macro Lens

(close-up 0.5 times)

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 Charger

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

FLK-LENS/TELE2 Infrared Telephoto Lens

(4X magnification)

FLK-TI-SBP3 Additional Smart Battery

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 ShareLive™ video calls and emails.
- The PRO series infrared cameras are 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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