

TECHNICAL DATA

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

The Fluke Professional Series



SUPERIOR IMAGE QUALITY

 SPATIAL RESOLUTION

 Ti480 PRO
 0.93 mRad

 Ti450 PRO
 1.31 mRad

 Ti400 PRO
 1.31 mRad

 Ti300 PRO
 1.75 mRad

RESOLUTION

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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



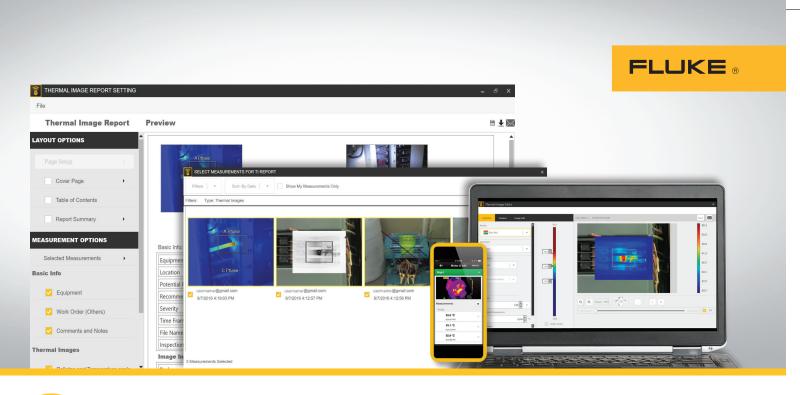
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Fluke Connect[®] compatible

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

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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

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- · 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

Manual focus

2 Fluke Corporation Ti480 PRO, Ti450 PRO, Ti400 PRO and Ti300 PRO Infrared Cameras

Detailed specifications

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<table-container> Instance order Search order or the search order orde</table-container>	MultiSharp™ Focus	Yes, focused near and far, t	hroughout the field of view		_	
Advanced manual focus Yes Wirdess canacetivity Yes, to PC, iPhone* and IPad* (IOS 4s and Isler). Android* 4.3 and WiP to LAN (where available) Pixels Connect- Asset optional software Yes*, to PC, iPhone* and IPad* (IOS 4s and Isler). Android* 4.3 and WiP to LAN (where available) Pixels Connect- Asset optional software Yes*, connect your camera to your buildings? WiP, network, and mage taken automatically upload to the Pixel Connect system for viewing on your smartphone of Connect to Ios compatible Yes*, connect your camera to your buildings? WiP, network, and image taken automatically upload to the Pixel Connect system for viewing on your smartphone of Connect to Ios connect on your smartphone of Connect of the visible defails to your infarted Image Re-Lucion technology Yes*, dots the connect of the visible defails to your infarted Image Regadized tothackeend, default is connect and annual scaling S is the financeend, finance Regadized tothackeend, default is connect and annual scaling S is the financeend, finance Regadized tothackeend, default is connect and annual scaling S is the financeend, finance Reveal and span S is the financeend, finance Reveal and span S is the financeend, finance Reveal and span S is the finance span Reveal and toge S is the finance span Minitium span (in annual mode) S is the finance	LaserSharp* Auto Focus		Yes, for consistently in-focus	images. Every. Single. Time.		
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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 (Jomp) or (jpeg) or fully-radiometric (is2); no analysis software required for non-radiometric (bmp, jpg and .avi) files Memory review C Software SmartView- software-full analysis and reporting software with access to the Fluwe Connect system Export file formats with Fluke Connect* desktop software 660 seconds maximum recording time per image; reviewable playback on camera, optional blueto-th headset available but not required IR-PhotNotes** 660 seconds maximum recording time per image; reviewable playback on camera, optional blueto-th headset available but not required Video recording Standard and radiometric File formats video Non-radiometric (MPEG - encoded AVI) and fully-radiometric (ISS). 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 Wi HDMI to a TV monitor Remote control operation Yes, through SmartView* software or Fluke Connect mobile app –		2x and 4x				
Image file formats Non-radiometric (Jomp) or (Jpeg) or fully-radiometric (Js2); no analysis oftware required for non-radiometric (Jomp, jpg and .avi) files Memory review Generationmetric (Jomp, jpg and .avi) files Software SmartView* software-full analysis and reporting software with access to the Fluke Connect system Export file formats with Fluke Connect* desktop software Bitmap (Jomp), GIF, JPEG, PNG, TIFF Voice annotation 60 seconds maximum recording time per image; reviewable playback on camera, optional blue-to the adset available but not required IR-PhotoNotes** Generation Yes (S images) Text annotation Yes Video recording Non-radiometric (MPEG - encoded .AVI) and fully-radiometric (JSS), wiFi hotspot, or WiFi network to SmartView* software on a PC; via WiFi hotspot to the Fluke Connect* app on a smartphone; via HDMI to a TV monitor File formats video Yes, see the live stream of the camera display on your PC, smartphone, or TV monitor. Via USS, WiFi hotspot, or WiFi network to SmartView* software on a PC; via WiFi hotspot to the Fluke Connect* app on a smartphone; via HDMI to a TV monitor Remote control operation Yes, through SmartView* software or Fluke Connect mobile app –						
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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™ 60 seconds maximum recording time per image; reviewable playback on camera, optional bluetooth headset available but not required Video recording Fes Video recording Yes (5 images) 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 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	•••	Non-radiometric (.bmp) or (.jpeg) or fully-radiometric (.is2); no analysis software required for				
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	Remote display viewing					
	Remote control operation	Yes, through SmartView* software or Fluke Connect mobile app –				
		Yes				

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*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

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Detailed specifications

	Ti480 PRO	Ti450 PRO	Ti400 PRO	Ti300 PRO			
Battery				• •			
Batteries (field-replaceable, rechargeable)	Two lithiu	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)	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 ba	attery charger or in-imager chargin	ng. Optional 12 V automotive char	ging adapter			
AC operation	AC	operation with included power su	pply (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 nom	ninal, whichever is greater)				
On-screen emissivity correction		Yes (both val	ue and table)				
On-screen reflected background temperature compensation		Yes					
On-screen transmission correction		Yes					
Live line marker		Y	es				
Color palettes							
Standard palettes	9: Rainbow, Ironbow,	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, A	Amber Inverted, Hot Metal, Graysc	ale, Grayscale Inverted			
Lens compatibility	· · · · · ·						
Macro-25 micron lens: 25 MAC2		Y	es				
2 x telephoto lens: TELE 2			es				
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		Yes					
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,	Czech, Dutch, English, Finnish, French, German, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Simplified Chi- nese, Spanish, Swedish, Traditional Chinese, and Turkish					
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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 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.

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 9 Hz Infrared Camera FLK-Ti300 PRO 60 Hz Infrared Camera FLK-Ti300 PRO 9 Hz Infrared Camera

Included

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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

FLK-LENS/TELE2 Infrared Telephoto Lens (2X magnification) FLK-LENS/4XTELE2 Infrared Telephoto Lens (4X magnification) 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-SBP3 Additional Smart Battery 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.

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.



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Fluke. Keeping your world up and running.®

Fluke Corporation PO Box 9090, Everett, WA 98206 U.S.A.

Fluke Europe B.V. PO Box 1186, 5602 BD Eindhoven, The Netherlands

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For more information call:

In the U.S.A. (800) 443-5853 or Fax (425) 446-5116 In Europe/M-East/Africa +31 (0)40 267 5100 or Fax +31 (0)40 267 5222 In Canada (800)-36-FLUKE or Fax (905) 890-6866 From other countries +1 (425) 446-5500 or Fax +1 (425) 446-5116 Web access: http://www.fluke.com

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