

Ti401 PRO, Ti480 PRO, TiX501 and TiX580 Infrared Cameras



SUPERIOR IMAGE QUALITY

RESOLUTION 640 x 480 (307,200 pixels)

SPATIAL RESOLUTION 0.93 mRad

FIELD OF VIEW 34 °H x 24 °V

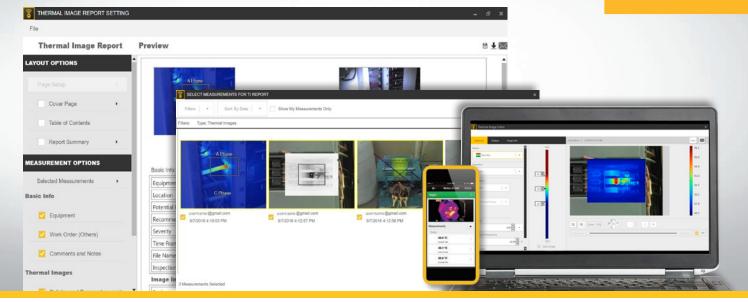


Fluke Connect[™] compatible

We recognize that it's not one approach for all—each industry, business and success measure is unique. Optimally engineered, Fluke cameras are aligned to drive efficiency through the latest in thermography technology advancements. They offer everything needed for industrial professionals to safely, quickly and easily find, assess and solve mission-critical problems before they result in downtime, become costly or even disastrous.

- In-focus images in a matter of seconds. LaserSharp™ Auto Focus
 uses a built-in laser distance meter that calculates and displays
 the distance from your designated target and immediately adjusts
 the focus.
- Shoot images near...and far. Interchangeable **Smart Lenses** require no calibration and give you the versatility and image quality needed to conduct inspections in almost any environment.
- Simply the best optics to transmit energy and produce high quality infrared images. Fluke uses only 100 % diamond-turned germanium lenses with specialty coatings.
- See more details when you adjust the level of infrared and visible light with patented IR-Fusion™ technology.
- Edit and analyze images on camera—edit emissivity, enable color alarms and markers, and adjust IR-Fusion™ visual and infrared image blending.
- Manage data, capture multiple measurements (mechanical, electrical and thermal) and organize them by piece of equipment with Fluke Connect™ software.
- Inspect multiple complex targets or targets from varying distances. Capture a clear, accurate image focused throughout the field of view with MultiSharp™ Focus. The camera automatically processes a stack of images focused near and far with the Ti480 PRO and TiX580.







Powerful, easy-to-use Fluke Connect™

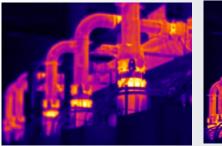
A comprehensive and connected software platform that represents the future of integrated equipment maintenance, monitoring, analysis and reporting. It's easier than ever to optimize thermal images, perform analytics, generate quick, customizable, robust reports, and export images to the format of your 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



Detailed specifications

	Ti401 PRO	Ti480 PRO	TiX501	TiX580			
Key Features							
Infrared resolution		640 x 480 (307,200 pixels)					
SuperResolution	No	Yes, in software. Captures and combines 4x the data to create a 1280 x 960 image	No	Yes, in software. Captures and combines 4x the data to create a 1280 x 960 image			
IFOV with standard lens (spatial resolution)		0.93 mRad,	D:S 1065:1				
Field of view	34 °H x 24 °V						
Minimum focus distance	15 cm (approx. 6 in)						
MultiSharp Focus	No	Yes, focused near and far, throughout the field of view	No	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	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 sharin						
Fluke Connect Assets	Through the desktop, assign images to assets, easily compare measurement types in one location and create reports. Future**, Automatically assign images to assets, easily compare measurement types in one location and create reports through a cloud-based system.						
Fluke Connect instant cloud upload	Yes*, connect your camera to y	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 instant server upload	Yes**	Yes**	Yes**	Yes**			
IR-Fusion technology		Yes, adds the context of the visil	ole details to your infrared image				
Ruggedized touchscreen display	3.5 inch (landscape), 640 x 480 LCD 5.7 inch (14.4 cm) landscape 640 x 480 LCD						
Ergonomic design	Pistol-grip design	for one-handed use	240 ° rotatable	(articulating) lens			
Thermal sensitivity (NETD)**	≤ 0.075 °C at 30 °C target temp (75 mK)	≤ 0.05 °C at 30 °C target temp (50 mK)	≤ 0.075 °C at 30 °C target temp (75 mK)	≤ 0.05 °C at 30 °C target temp (50 mK)			
Level and span		Smooth auto and	d manual scaling				
Touchscreen adjustable level/span	Yes. Span and level can be easily and quickly set by simply touching the screen						
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	No	2x and 4x	2x	2x, 4x, 8x			
Data storage and image capture							
Extensive memory options	Removable 4 GB micro SD mem	ory card, 4 GB internal flash memo	ry, save to USB flash drive capabili	ty, upload for permanent storage			
Image capture, review, save mechanism	One-handed image capture	, review, and save capability	Yes, edit and analyze ca	ptured images on camera			
Image file formats	bmp, jpeg, is2	bmp, jpeg, is2, is3, AVI	bmp, jpeg, is2, is3, AVI	bmp, jpeg, is2, is3, AVI			
Memory review		Thumbnail and f	ull screen review				
Software	Full analysis and reporting software with access to the Fluke Connect system						
Analyze and store radiometric data on a PC	Yes						
Export file formats with Fluke Connect 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 - 2 images	Yes - 5 images	Yes - 2 images	Yes - 5 images			
Text annotations	Yes. Including standard shortcuts as well as user programmable options						
Video recording and formats	No	Standard and radiometric	Standard	Standard and radiometric			
Remote control operations	Remote display through Fluke Connect	Remote display and control operation through Fluke Connect	Remote display through Fluke Connect	Remote display and control operation through Fluke Connect			
Auto capture (temperature and interval)	No	Yes	No	Yes			



Detailed specifications

	Ti401 PRO	Ti480 PRO	TiX501	TiX580	
Battery					
Batteries (field-replaceable, rechargeable)	Two lithi	um ion smart battery packs with fiv	e-segment LED display to show ch	arge level	
Battery life	2-3 hours per battery (actual life varies depending on settings and usage)				
Battery charging time	2.5 hours to full charge				
Battery charging system	Two-bay b	attery charger or in-imager chargir	g. Optional 12 V automotive charg	ing adapter	
AC operation	AC	operation with included power su	oply (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 +650 °C (-4 °F to +1,202 °F)	-20 °C to +1,000 °C (-4 °F to 1,832 °F)	-20 °C to +650 °C (-4 °F to +1,202 °F)	-20 °C to +1,000 °C (-4 °F to 1,832 °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				
Line temperature graph	No	Yes	No	Yes	
Color palettes					
Standard palettes	9: Rainbow, Ironbow, Blue-Red, High Contrast, Amber, Amber Inverted, Hot Metal, Grayscale, Grayscale Inverted 8: Ironbow, Blue-Red, High Contrast, Amber, Amber Inverted, I Metal, Grayscale, Grayscale Inverted				
Ultra Contrast palettes	9: Rainbow, Ironbow, Blue-Red, High Contrast, Amber, Amber Inverted, Hot Metal, Grayscale, Grayscale Inverted 8: Ironbow Ultra, Blue-Red Ultra, High Contrast Ultra, Amber Inverted Ultra, Hot Metal Ultra, Grayscale Ultra, Grays				
Smart lenses					
Macro-25 micron lens: 25 MAC2		Ye	es		
2 x telephoto lens: TELE 2	Yes				
x telephoto lens: TELE4	Yes				
Nide angle lens: WIDE 2		Ye	es		
General specifications					
Color alarms (temperature alarms)		High temperature, low temperature	re, and isotherms (within range)		
infrared spectral band	7.5 µm to 14 µm (long wave)				
Derating 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	Hot and cold spot markers, individually enabled		
User-definable spot markers	No	3 user-definable spot markers	2 user-definable spot markers	3 user-definable spot market	
Jser defined measurement boxes	1 expandable-contractible measurement box with MIN-MAX-AVG temp display	Up to 3 expandable– contractible measurement box with MIN-MAX-AVG temp display	expandable-contractible measurement box with MIN-MAX-AVG temp display	3-Expandable-contractible measurement box with MIN-MAX-AVG temp displa	
Hard Case	Rugged, hard carrying case; soft transport bag	Rugged, IP67	rated, airtight hardcase with custom foam insert		
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 B				
Vibration	0.03 g2/Hz (3.8 g), 2.5 g IEC 60068-2-6				
Shock	25 g, IEC 68-2-29				
Drop		d 2 meter (6.5 feet) drop adard lens	Engineered to withstand 1 meter (3.3 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)		27.3 cm x 15.9 cm x 9.7 cm (10.8 in x 6.3 in x 3.8 in)		
Weight (battery included)	1.04 kg (2.3 lb) 1.54 kg (3.4 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				
		Yes			

Please Note: Fluke Connect analysis and reporting software is available in all countries but Fluke Connect is not. Please check availability with your authorized Fluke distributor **Indicates Fluke Connect is features that will be available soon. Watch the Fluke website for software and firmware updates.



Ordering information

FLK-Ti401 PRO 60 Hz Infrared Camera FLK-Ti401 PRO 9 Hz Infrared Camera FLK-Ti480 PRO 60 Hz Infrared Camera FLK-Ti480 PRO 9 Hz Infrared Camera FLK-TiX501 60 Hz Infrared Camera FLK-TiX501 9 Hz Infrared Camera FLK-TiX580 60 Hz Infrared Camera FLK-TiX580 9 Hz Infrared Camera

Included

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; 4GB micro SD card; and adjustable hand strap. Available by free download: Fluke Connect™ desktop software and user manual

Ti401 PRO only

Rugged, hard carrying case, soft transport bag

Ti480 PRO, TiX501, TiX580 only Rugged, IP67 rated, airtight hard carrying case

TiX501, TiX580 only Adjustable neck strap

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/25MAC2 25 Micron Macro Infrared 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

FLK-TIX5XX-SBP4 Additional Smart Battery

FLK-TI-SBC3B Additional Smart Battery Charger

TiX501 and TiX580 additional accessories

FLK-TIX5X-LENS CAP Infrared Lens Cover FLK-TIX5XX-NECK Neck strap FLUKE-TIX5XX HAND Hand strap FLK-TI-BLUETOOTH Bluetooth Headset FLK-TIX5XX-HDMI HDMI Cable

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



Preventive maintenance simplified. Rework eliminated.

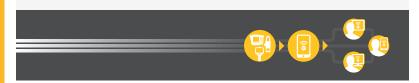
Save time and improve the reliability of your maintenance data by wirelessly syncing measurements using the Fluke Connect™ system.

- 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 5GB 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.

Distribué par:



99 rue Beranger 92320 Chatillon - France

Tel.: +33 (0) 1 71 16 17 00 E-mail: contact@testoon.com

www.testoon.com

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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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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