Fluke TiX560 Specs Provided by www.AAATesters.com



TECHNICAL DATA

TiX580, TiX560, TiX520 and TiX500 Infrared Cameras

The Fluke Expert Series



PREMIUM IMAGE QUALITY

SPATIAL RESOLUTION

TiX580

0.93 mRad

TiX560, TiX520 and TiX500

1.31 mRad

RESOLUTION

TiX580

640 x 480

SuperResolution mode: 1280 x 960

TiX560, TiX520 and TiX500

320 x 240

SuperResolution mode: 640 x 480

THERMAL SENSITIVITY (NETD)*

TiX580

 \leq 0.5 °C at 30 °C target temp (50 mK)

TiX560

 \leq 0.03 °C at 30 °C target temp (30 mK)

TiX520

≤ 0.04 °C at 30 °C target temp (40 mK)

TEMPERATURE RANGE

TiX580

-20 °C to +800 °C (-4 °F to + 1472 °C)

TiX560

-20 °C to +1200 °C (-4 °F to +2192 °F)

TiX520

-20 °C to +850 °C (-4 °F to +1562 °F)

TiX500

-20 °C to +650 °C (-4 °F to +1202 °F)

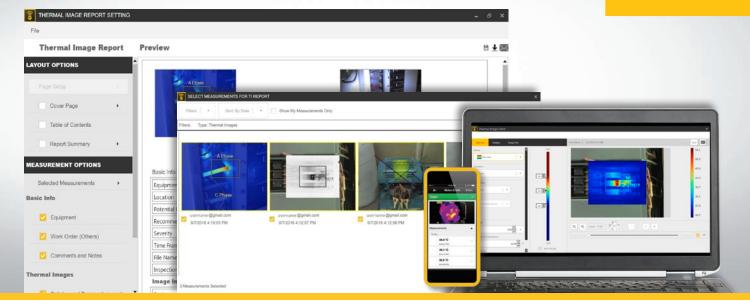


Fluke Connect® compatible

Tablet-sized screen. More details. Faster decisions.

- 5.7-inch screen provides 150 % more viewing area than a standard 3.5-inch screen
- The ergonomic design and neck strap make long inspection days a lot easier
- Easily maneuver over, under and around objects with the 240° rotating screen while viewing the screen at a comfortable angle, unlike standard pistol grip cameras
- Eliminate potential for mis-diagnosis with automatically focused images throughout your field of view with MultiSharp™ Focus
- 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 a 1280 x 960 image on the TiX580 and 640 x 480 images on the TiX560 and TiX520
- MATLAB* and LabVIEW* software compatibility allows users to integrate camera data, infrared video and infrared images to support R&D analysis
- 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.
- 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



Detailed specifications

	TiX580	TiX560	TiX520	TiX500		
Key Features						
Infrared resolution	640 x 480 (307,200 pixels) 320 x 240 (76,800 pixels)					
SuperResolution	Yes, in software. Continues and combines by the data to greate a 1290. Yes, on camera and in software.		re. 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	1.3	.31 mRad, D:S 753:1			
Field of view	34 °H x 24 °V 24 °H		24 °H x 17 °V	4 °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 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 wirelessly to select Fluke Connect enabled tools and displays measurements on camera screen					
IR-Fusion [®] technology	Yes, adds the context of the visible details to your infrared image					
AutoBlend™ mode	Continuously variabl	100 %, 75 %, 50 %, 25 % IR plus full visible on camera				
Picture-In-Picture (PIP)	100 %, 75 %, 50 %, 25 % IR					
Continuous AutoBlend™	Set AutoBlend™ level across c	_				
Touchscreen display (capacitive)	5.7 inc	h (14.4 cm) landscape 640 x 480 L	CD			
Rugged, ergonomic design	240 ° rotatable (articulating) lens					
Thermal sensitivity (NETD)**	≤ 0.05 °C at 30 °C target temp (50 mK)	\leq 0.03 °C at 30 °C target temp (30 mK)	≤ 0.04 °C at 30 °C target temp (40 mK)	≤ 0.05 °C at 30 °C target tem (50 mK)		
Level and span	Smooth auto and 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						
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, 4x, 8x		2x, 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.					
Post-capture image editing (on camera)	Yes, edit and analyze captured images on camera					



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



	TiX580	TiX560	TiX520	TiX500		
Data storage and image capture (continu	ied)					
mage file formats	Non-radiometric (.bmp, .	jpeg), or fully radiometric (.is2); no ar	alysis software required for non-ra	diometric (.bmp, .jpg) files		
lemory review	Thumbnail and full screen review					
oftware	Fluke Connect • SmartView • full analysis and reporting software with access to the Fluke Connect system*					
xport file formats with Fluke Connect*	Bitmap (.bmp), GIF, JPEG, PNG, TIFF					
martView* software						
oice annotation	60 seconds maximu	m recording time per image; review		h headset provided**		
R-PhotoNotes™		Yes (5 i	• .			
dvanced text annotation	Yes. Including standard shortcuts as well as user programmable options					
Video recording	Standard and radiometric					
Tideo file formats	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 Yes, through Fluke Connect SmartView* desktop software or					
Remote control operation	Fluke Connect			-		
auto capture (temperature and interval)		Ye	es			
MATLAB* and LabVIEW* tool boxes	Integrate camera data, infrared vide platforms to suppo			_		
Sattery						
Batteries (field-replaceable, rechargeable)	Two lithi	ium ion smart battery packs with fiv	e-segment LED display to show ch	large level		
lattery life	2-3 hours per battery (Actual life varies depending on settings and usage)	3-4 hours per batte	ery (Actual life varies depending o	n settings and usage)		
Battery charge time	2.5 hours to full charge					
attery charging system	Two-bay battery charger or in-imager charging. Optional 12 V automotive charging adapter					
Coperation	AC operation with included power supply (100 V AC to 240 V AC, 50/60 Hz)					
ower saving	User selectable sleep and power off modes					
'emperature measurement			•			
emperature 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 +850 °C (-4 °F to +1562 °F)	-20 °C to +650 °C (-4 °F to +1202 °F)		
ccuracy	(11671121)	± 2 °C or 2 % (at 25 °C nom		(116,1202.1)		
n-screen emissivity correction						
n-screen reflected background	Yes (both value and table)					
emperature compensation	Yes					
On-screen transmission correction	Yes					
ive line marker		Ye	es			
olor palettes						
tandard palettes	8: Ironbow, Blue-Red, High Contrast, Amber, Amber Inverted, Hot Metal, Grayscale, Grayscale Inverted					
ltra Contrast™ palettes	8: Ironbow Ultra, Blue-Red Ultra, Hi	gh Contrast Ultra, Amber Ultra, Ambe	r Inverted Ultra, Hot Metal Ultra, Gra	yscale Ultra, Grayscale Inverted Ult		
eneral specifications						
olor alarms (temperature alarms)		High temperature, low temperature	re, and isotherms (within range)			
nfrared spectral band	7.5 µm to 14 µm (long wave)					
emperature	Operating: -10 °C to +50 °C (14 °F to 122 °F); Storage: -20 °C to +50 °C (-4 °F to 122 °F) without batteries					
elative humidity	10% to 95% non-condensing					
enter-point temperature measurement	Yes					
pot temperature	Hot and cold spot markers, individually enabled					
ser-definable spot markers	3 user-definable spot markers					
enter box	Expandable-contractible measurement box with MIN-MAX-AVG temp display					
afety	IEC 61010-1: Overvoltage Category II, Pollution degree 2					
lectromagnetic compatibility	IEC 61326-1: Basic EM Environment; CISPR 11, Group 1, Class A					
ustralian RCM		IEC 61	326-1			
SFCC		CFR 47, Part	15 Subpart B			
ibration		0.03 g2/Hz (3.8 grn				
hock/Drop	25 g, IEC 68-2-29/Engineered to withstand 1 meter (3.3 feet) drop with standard lens					
ize (H x W x L)/Weight (battery included)	27.3 cm x 15.9 cm x 9.7 cm (10.8 in x 6.3 in x 3.8 in)/1.54 kg (3.4 lb)					
	IEC 60529: IP54 (protected against dust, limited ingress; protection against water spray from all directions)					
•				•		
nclosure rating Jarranty/Calibration cycle	Two-years (standard),	protected against dust, limited ingre . extended warranties are available/ French, German, Hungarian, Italian,	Two-years (assumes normal opera	ation and normal aging)		

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

^{**}Bluetooth not available in all countries



Ordering information

FLK-TiX580 60Hz Infrared Camera FLK-TiX580 9Hz Infrared Camera FLK-TiX560 60Hz Infrared Camera FLK-TiX560 9Hz Infrared Camera FLK-TiX520 60Hz Infrared Camera FLK-TiX520 9Hz Infrared Camera FLK-TiX500 60Hz Infrared Camera FLK-TiX500 9Hz Infrared Camera

Included with product

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; rugged, hard carrying case; adjustable neck and hand strap; bluetooth headset (where available). Available by free download: Fluke Connect® SmartView® desktop software and user manual

FLK-TIX560/T2 60HZ Infrared Camera, Tele2 Infrared 2x Telephoto Lens FLK-TIX560/T2 9HZ Infrared Camera, Tele2 Infrared 2x Telephoto Lens FLK-TIX560/W2 60HZ Infrared Camera, Wide2 Infrared Wide Angle Lens FLK-TIX560/W2 9HZ Infrared Camera, Wide2 Infrared Wide Angle Lens

FLK-LENS/TELE2 Infrared Telephoto Lens

(2X magnification), TiX580, TiX560, TiX520, TiX500

Optional accessories

FLK-LENS/4XTELE2 Infrared Telephoto Lens (4X magnification), TiX560, TiX520, TiX500 FLK-LENS/WIDE2 Infrared Wide Angle Lens, TiX580, TiX560, TiX520, TiX500 FLK-LENS/25MAC2 25 Micron Macro Infrared Lens, TiX560, TiX520, TiX500 TI-CAR-CHARGER Car Charger **BOOK-ITP** Introduction to Thermography Principles Book FLK-TIX5XX-SBP4 Additional Smart Battery FLK-TI-SBC3B Additional Smart Battery Charger 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 representative.



Preventive maintenance simplified. Rework eliminated.

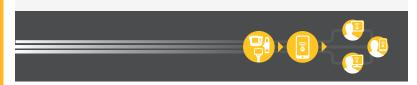
Save time and improve the reliability of your maintenance data by wirelessly syncing measurements using the Fluke Connect® system.

- 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 TiX5XX Series 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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