

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

≤ 0.5 °C at 30 °C target temp (50 mK)

≤ 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)

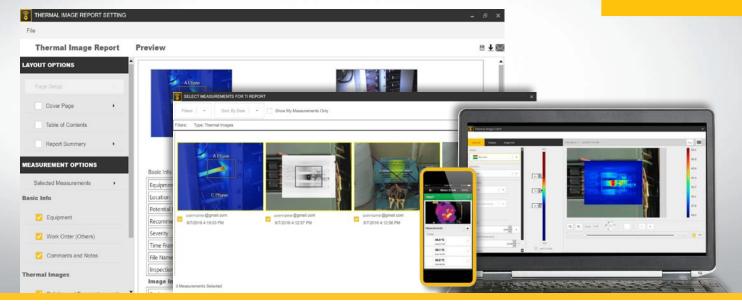


Fluke Connect® compatible

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

Fluke Connect Assets optional software Yes*, assign images to assets and create work orders. Easily compare measurement types in one location 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 Continuously variable Picture-In-Picture (PIP) Continuous AutoBlend™ Set AutoBlend™ level across continuum Set AutoBlend™ level across continuum Touchscreen display (capacitive) Rugged, ergonomic design Thermal sensitivity (NETD)** Set O.05 °C at 30 °C target temp (50 mK) Set O.05 °C at 30 °C target temp (50 mK) Set O.05 °C at 30 °C target temp (50 mK)		TiX580	TiX560	TiX520	TiX500		
SuperResolution	Key Features						
Agritures and combines 4x the data to create a 1280 x 950 image **PFOV with standard lens (spatial resolution)** **Probled of view** **Pried of view** **Pried of view** **Pried of view** **Multisharp*** Focus** **Pried of view** **LaserSharp*** Attor Focus** **Laser distance meter** **Advanced manual focus** **Yes, to PC, iPhone* and iPad*** [iOS 4s and later], Androd*** **Yes, connectivity** **Yes, to PC, iPhone* and iPad*** [iOS 4s and later], Androd*** **Pluke Connect Assets optional software** **Pluke Connect Assets optional software** **Puke Connect Note of Connect Instant Upload** **Pes**, connectivity* **Puke Connect tool compatible** **Pes**, connectivity* **Puke Connect tool compatible** **Pes**, connective wirelessly to select Pluke Connect enabled tools and displays measurements on camera screen.* **Pried of the Puke Connect one of the visible details to your infrared image.* **Pried of the Puke Connect one of the visible details to your infrared image.* **Pried of the Puke Connect one of the visible details to your infrared image.* **Pried of the Puke Connect one of the visible details to your infrared image.* **Pried of the Puke Connect one of the visible details to your infrared image.* **Pried of the Puke Connect one of the visible details to your infrared image.* **Pried of the Puke Connect one of the visible details to your infrared image.* **Pried of the Puke Connect one of the visible details to your infrared image.* **Pried of the Puke Connect one of the visible details to your infrared image.* **Pried of the Puke Connect one of the visible det	Infrared resolution	640 x 480 (307,200 pixels) 320 x 240 (76,800 pixels)					
Field of view Minimum focus distance Minimum specus distance Advanced manual focus Yes, for consistently in-focus in ages. Every. Singla-Time. Laser distance meter Advanced manual focus Wireless connectivity Yes, to PC, l'Phone* and l'Phone* and l'End view and displays distance on screen Yes*, connect your camera to your samartphone, and manual sealing Fluke Connect app compatible Yes*, connect your camera to your building's WIPI, network, and images taken automatically upload to the Pluke Connect app for sawing and share Fluke Connect that Upload Yes*, connect your camera to your building's WIPI, network, and images taken automatically upload to the Pluke Connect app for sawing and share Fluke Connect network orders. Easily compare measurement types in one location Fluke Connect tool compatible Yes*, connect your camera to your building's WIPI, network, and images taken automatically upload to the Pluke Connect app for sawing and share Fluke Connect tool compatible Yes*, connect your camera to your building's WIPI, network, and images taken automatically upload to the Pluke Connect app for sawing and share Fluke Connect not compatible Yes*, connect your camera to your building's WIPI, network, and images taken automatically upload to the Pluke Connect app for sawing and share Fluke Connect tool compatible Yes*, connect your camera to your building's WIPI, network, and images taken automatically upload to the Pluke Connect app for sawing and share Fluke Connect tool compatible Yes*, connect your camera to your building's WIPI, network, and images taken automatically upload to the Pluke Connect app for sawing and share Fluke Connect tool compatible Yes*, connect your dearer to your building's WIPI, network, and images taken automatically upload to the Pluke Connect app for sawing and share Fluke Connect tool compatible Yes*, connect your building's WIPI, network, and images taken automatically upload to the Pluke Connect app for sawing and share Fluke Connect tool compatible Set Auto	SuperResolution	Yes, in software. Captures and combines 4x the data to create a 1280 Yes, on camera and in software. Captures and combines 4x the data			e data to create		
Minimum focus distance Multi Sharp** Pocus Steam and Far, throughout the field of view Wes, for consistently in-focus images. Every. Single. Time. Laser distance meter Advanced manual focus Yes, calculates distance to the target for precisely focused images and displays distance on screen Advanced manual focus Yes, to PC, iPhone* and iPad* (10S 4s and late), Android* 4.3 and up, and WiF1 to LAN (where available) Fluke Connect app compatible Pluke Connect app compatible Yes*, connect your camera to your smartphone, and images taken automatically upload to the Fluke Connect app for saving and share. Pluke Connect Instant Upload Yes*, connect your camera to your buildings* WiF1 network, and images taken automatically upload to the Fluke Connect app for saving and share. Yes*, connect your camera to your smartphone, and images taken automatically upload to the Fluke Connect application on the Fluke Co	IFOV with standard lens (spatial resolution)	0.93 mRad, D:S 1065:1	1.3	31 mRad, D:S 753:1			
MultiSharp* Focus Yes, focused near and fat, throughout the field of view Laser Sharp* Auto Focus Yes, calculates distance to the target for precisely focused images and displays distance on screen Advanced manual focus Yes, to PC, iPhone* and iPad* (IOS 4s and later, Android** 4.3 and up, and WiFi to LAN (where available) Pluke Connect app compatible Yes*, connect your camera to your smartphone, and images taken automatically upload to the Fluke Connect app for saving and share for the cisely of the viewing on your smartphone or PC Fluke Connect tool compatible Yes*, connect your camera to your building \$WiFi network, and images taken automatically upload to the Fluke Connect spoten tool compatible Yes*, connect your camera to your building \$WiFi network, and images taken automatically upload to the Fluke Connect spoten tool compatible Yes*, connect your camera to your building \$WiFi network, and images taken automatically upload to the Fluke Connect spoten tool compatible Yes*, connect your camera to your building \$WiFi network, and images taken automatically upload to the Fluke Connect spoten tool compatible Yes*, connect your camera to your building \$WiFi network, and images taken automatically upload to the Fluke Connect spoten tool compatible Yes*, connect your camera to your building \$WiFi network, and images taken automatically upload to the Fluke Connect spoten tool compatible Yes*, connect your camera to your building \$WiFi network, and images taken automatically upload to the Fluke Connect spoten tool compatible Yes*, connect your camera to your building \$WiFi network, and images taken automatically upload to the Fluke Connect your viewing on your to viewing on your tool tool and displays measurements on camera screen tool your politically tools and the political tools and the politically tools and the political tools and the political tools and the political tools and the political	Field of view						
Laser distance meter	Minimum focus distance		15 cm (approx. 6 in)				
Advanced manual focus Wreses connectivity Fuke Connect app compatible Yes', connect your camera to your smartphone, and images taken automatically upload to the Fluke Connect app for saving and shar Pluke Connect Assets optional software Yes', connect your camera to your smartphone, and images taken automatically upload to the Fluke Connect app for saving and shar Pluke Connect Assets optional software Yes', connect your camera to your smartphone, and images taken automatically upload to the Fluke Connect app for saving and shar Yes', connect transmaturation of the Fluke Connect app for saving and shar Yes', connect transmaturation of the Fluke Connect app for saving and shar Yes', connect work orders. Easily compare measurement types in one location Fluke Connect Instant Upload Yes', connect your camera to your building's WiFi network, and mages taken automatically upload to the Fluke Connect system for viewing on your smartphone or PC Fluke Connect tool compatible Yes', connect your camera to your building's WiFi network, and mages taken automatically upload to the Fluke Connect system for viewing on your smartphone or PC Fluke Connect tool compatible Yes', connect your camera to your building's WiFi network, and mages taken automatically upload to the Fluke Connect system for viewing on your smartphone or PC Fluke Connect tool compatible Yes, adds the context of the visible details to your infarred image Yes, adds the context of the visible details to your infarred image Reputation Plant Plan	MultiSharp™ Focus						
Mireles connectivity Yes, to PC, iPhone* and iPad* (10S 4s and later), Android** 4.3 and up, and WiFi to LAN (where available) Fluke Connect app compatible Pluke Connect Assets optional software Pluke Connect Assets optional software Pluke Connect Instant Upload Yes*, connect your camera to your smartphone, and images taken automatically upload to the Pluke Connect app for saving and share and the pluke Connect app for saving and saving a	LaserSharp* Auto Focus	-					
Wireless connectivity Yes, to PC, iPhone* and iPad* (iOS 4s and later), Android** 4.3 and up, and WiFi to LAN (where available) Pluke Connect* app compatible Yes*, connect your camera to your smartphone, and images taken automatically upload to the Pluke Connect app for saving and share Pluke Connect that share yes*, connect your camera to your building*s WiFi network, and images taken automatically upload to the Pluke Connect app for saving and share yes*, connect vour camera to your building*s WiFi network, and images taken automatically upload to the Pluke Connect system for viewing on your smartphone or PC Pluke Connect tool compatible Yes*, connects wirelessly to select Fluke Connect abeled tools and displays measurements on camera screen R-Pusion* technology Yes, adds the context of the visible details to your infrared image R-Pusion* technology Yes, adds the context of the visible details to your infrared image R-Pusion* technology Yes, adds the context of the visible details to your infrared image R-Pusion* technology Yes, adds the context of the visible details to your infrared image R-Pusion* technology Yes, adds the context of the visible details to your infrared image R-Pusion* technology Yes, adds the context of the visible details to your infrared image R-Pusion* technology Yes, adds the context of the visible details to your infrared image R-Pusion* technology Yes, adds the context of the visible details to your infrared image R-Pusion* technology 100 %, 75 %, 50 %, 25 % R R-Pusion* technology Yes, adds the context of the visible details to your infrared image R-Pusion* technology Yes, add the context of the visible details to your infrared image R-Pusion* technology Yes, add the context of the visible details to your infrared image R-Pusion* technology Yes, 50 %, 25 % R R-Pusion* technology Yes, 50 %, 50 %, 25 % R R-Pusion* technology Yes, 50 %, 50 %, 50 %, 50 %, 25 % R R-Pusion* technology Yes, 50 %, 50 %, 50 %, 50 %, 5	Laser distance meter						
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Fluke Connect Assets optional software Fluke Connect Instant Upload Yes*, connect your camera to your building's WiPi network, and images taken automatically upload to the Pluke Connect system for viewing ovur smartphone or PC Fluke Connect tool compatible Yes*, connect swirelessly to select Fluke Connect enabled tools and displays measurements on camera screen IR-Fusion* technology AutoBlend** mode AutoBlend** mode Continuously variable Fluture [PIP] Continuous AutoBlend** Set AutoBlend** level across continuously variable Regard, ergonomic design Touchscreen display (capacitive) Rugged, ergonomic design Set AutoBlend** So 0.05 °C at 30 °C target temp (50 mK) Fluturel and span Touchscreen adjustable level/span Fast auto toggle between manual and auto modes Fast auto-rescale in manual mode Minimum span (in manual mode) Minimum span (i	Wireless connectivity	Yes, to PC, iPhone® and iPad® (iOS 4s and later), Android™ 4.3 and up, and WiFi to LAN (where available)					
Pluke Connect Instant Upload Yes*, connect your camera to your building's WiFi network, and images taken automatically upload to the Pluke Connect system for viewing on your swartphone or PC	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 instant upload Yes*, connects wirelessly to select Fluke Connect enabled tools and displays measurements on camera screen IR-Pusion* technology AutoBlend** mode Continuously variable Continuously variable Continuous AutoBlend** Set AutoBlend** level across continuum Touchscreen display (capacitive) Rugged, ergonomic design Thermal sensitivity (NETD)** Soos **C at 30 **C target temp (50 mK) Level and span Touchscreen adjustable level/span Yes. Span and level can be easily and quickly set by simply touching the screen Fast auto-rescale in manual mode Minimum span (in auto mode) Winimum span (in auto mode) Built-in digital camera (visible light) Frame rate Leser pointer Leser pointer Leser pointer Removable 4 GB micro SD memory card, 4 GB internal flash memory, save to USB flash drive capability, upload to Pluke Cloud for permanent storage.	Fluke Connect Assets optional software						
Refusion technology Yes, adds the context of the visible details to your infrared image 100 %, 75 %, 50 %, 25 %, 100 %, 75 %, 50 %, 25 %, 100 %, 75 %, 50 %, 25 %, 100 %, 75 %, 50 %, 25 %, 100 %, 75 %, 50 %, 25 %, 100 %, 75 %, 50 %, 25 %, 100 %, 75 %, 50 %, 25 %, 100 %, 75 %, 50 %, 25 %, 100 %, 75 %, 50 %, 25 %, 100 %, 75 %, 50 %, 25 %, 100 %, 75 %, 50 %, 25 %, 100 %, 75 %, 50 %, 25 %, 100 %, 75 %, 50 %, 25 %, 100 %, 75 %, 50 %, 25 %, 100 %, 75 %, 50 %, 25 %, 100 %, 100 %, 75 %, 50 %, 25 %, 100 %, 100 %, 75 %, 50 %, 25 %, 100 %, 100 %, 75 %, 50 %, 25 %, 100 %, 100 %, 75 %, 50 %, 25 %, 100 %, 100 %, 75 %, 50 %, 25 %, 100 %, 100 %, 75 %, 50 %, 25 %, 100	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					
AutoBlend™ mode Continuously variable Picture-In-Picture (PIP) Continuous AutoBlend™ Set AutoBlend™ level across continuum Touchscreen display (capacitive) Rugged, ergonomic design Thermal sensitivity (NETD)** \$\frac{50.05 \color{100}{0.05 \color{100}{0	Fluke Connect tool compatible	Yes*, connects wirelessly to select Fluke Connect enabled tools and displays measurements on camera screen					
Picture-In-Picture (PIP) Continuous AutoBlend™ Set AutoBlend™ level across continuum Touchscreen display (capacitive) Rugged, ergonomic design Thermal sensitivity (NETD)** Set AutoBlend™ level across continuum Thermal sensitivity (NETD)** Set AutoBlend™ level across continuum Set AutoBlend™ level across a	IR-Fusion [®] technology	Yes, adds the context of the visible details to your infrared image					
Continuous AutoBlend™ Set AutoBlend™ level across continuum — Touchscreen display (capacitive) Rugged, ergonomic design 240 ° rotatable (articulating) lens Thermal sensitivity (NETD)** \$\frac{2}{3}\text{ 0.05 °C at 30 °C target temp (50 mK)} \frac{2}{3}\text{ 0.03 °C target temp (30 mK)} \frac{2}{3}\text{ 0.04 °C at 30 °C target temp (40 mK)} \frac{2}{3}\text{ 0.05 °C at 30 °C target temp (30 mK)} \frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \frac{2}{3}\text{ 0.05 °C at 30 °C target temp (50 mK)} \frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \frac{2}{3}\text{ 0.05 °C at 30 °C target temp (50 mK)} \frac{2}{3}\text{ 0.05 °C at 30 °C target temp (50 mK)} \frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \frac{2}{3}\text{ 0.05 °C at 30 °C target temp (50 mK)} \frac{2}{3}\text{ 0.05 °C at 30 °C target temp (50 mK)} \frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \frac{2}{3}\tex	AutoBlend™ mode	Continuously variabl					
Touchscreen display (capacitive) Rugged, ergonomic design 240 ° rotatable (articulating) lens 240 ° rotatable (articulating) lens Thermal sensitivity (NETD)** \$\frac{2}{3}\text{ 0.05 °C at 30 °C target temp (50 mK)} \text{ \$\frac{2}{3}\text{ 0.03 °C target temp (40 mK)} \text{ \$\frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \text{ \$\frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \text{ \$\frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \text{ \$\frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \text{ \$\frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \text{ \$\frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \text{ \$\frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \text{ \$\frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \text{ \$\frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \text{ \$\frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \text{ \$\frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \text{ \$\frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \text{ \$\frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \text{ \$\frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \text{ \$\frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \text{ \$\frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \text{ \$\frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \text{ \$\frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \text{ \$\frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \text{ \$\frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \text{ \$\frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \text{ \$\frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \text{ \$\frac{2}{3}\text{ 0.05 °C at 30 °C target temp (40 mK)} \text{ 0.05 °C at 30 °C target temp (40 mK)} \text{ 0.05 °C at 30 °C target temp (40 mK)} \text{ 0.05 °C at 30 °C target temp (40 mK)} \text{ 0.05 °C at 30 °C target temp (40 mK)} \text{ 0.05 °C at 30 °C target temp (40 mK)} \text{ 0.05 °C at 30 °C target temp (40 mK)} 0.05 °C at 30 °C targ	Picture-In-Picture (PIP)	100 %, 75 %, 50 %, 25 % IR					
Rugged, ergonomic design Thermal sensitivity (NETD)** \$\(\sum{2}\) 0.05 °C at 30 °C target temp (50 mK) \\ \[\sum{2}\) 0.03 °C at 30 °C target temp (40 mK) \\ \[\sum{2}\) 0.05 °C at 30 °C target temp (50 mK) \\ \[\sum{2}\) 0.03 °C at 30 °C target temp (40 mK) \\ \[\sum{2}\) 0.05 °C at 30 °C target temp (50 mK) \\ \[\sum{2}\) 0.03 °C at 30 °C target temp (40 mK) \\ \[\sum{2}\) 0.05 °C 30 °C target (50 mK) \\ \[\sum{2}\) 0.06 °C 30 °C target temp (40 mK) \\ \[\sum{2}\) 0.05 °C at 30 °C target temp (40 mK) \\ \[\sum{2}\) 0.05 °C 30 °C target temp (40 mK) \\ \[\sum{2}\) 0.05 °C 30 °C target temp (40 mK) \\ \[\sum{2}\) 0.05 °C at 30 °C target temp (40 mK) \\ \[\sum{2}\) 0.05 °C 30 °C target temp (40 mK) \\ \[\sum{2}\) 0.05 °C at 30 °C target temp (40 mK) \\ \[\sum{2}\) 0.05 °C 30 °C target temp (40 mK) \\ \[\sum{2}\) 0.05 °C 30 °C target temp (40 mK) \\ \[\sum{2}\) 0.05 °C at 30 °C target temp (40 mK) \\ \[\sum{2}\) 0.05 °C at 30 °C target temp (40 mK) \\ \[\sum{2}\) 0.05 °C at 30 °C target temp (40 mK) \\ \[\sum{2}\) 0.05 °C at 30 °C target temp (40 mK) \\ \[\sum{2}\) 0.05 °C at 30 °C target temp (40 mK) \\ \[\sum{2}\) 0.05 °C target temp (40 mK) \\ \[\sum{2}\) 0.05 °C target temp (40 mK) \\ \[\sum{2}\) 0.05 °C target temp (40 mK) \\ \[\sum{2}\) 0.05 °C target temp (40 mK) \\ \[\sum{2}\) 0.05 °C target temp (40 mK) \\ \[\sum{2}\) 0.05 °C target temp (40 mK) \\ \[\sum{2}\) 0.05 °C (30 °C (3.6 °F) \\ \[\sum{2}\) 0.05 °C (3.6	Continuous AutoBlend $^{\text{\tiny TM}}$	Set AutoBlend™ level across continuum —					
Thermal sensitivity (NETD)** \$\(\leq 0.05 \cap \text{c} \text{c} \text{d} \text{30 \cap C} \text{target temp (50 mK)} \) \$\(\leq 0.03 \cap \text{c} \text{d} \text{d} \text{30 \cap C} \text{target temp (40 mK)} \) \$\(\leq 0.05 \cap \text{C} \text{d} \text{d} \text{30 \cap C} \text{target temp (40 mK)} \) \$\(\leq 0.05 \cap \text{C} \text{d} \text{d} \text{d} \text{o} \text{c} \text{d} \text{d} \text{d} \text{o} \text{c} \text{d} \text{d} \text{o} \text{c} \text{d} \text{d} \text{o} \text{c} \text{d} \text{d} \text{o} \text{c} \text{d} \text{d} \text{d} \text{o} \text{c} \text{d} \text	Touchscreen display (capacitive)	5.7 inch (14.4 cm) landscape 640 x 480 LCD					
Thermal sensitivity (NETD)** ≤ 0.05 °C at 30 °C target temp (50 mK) Smooth auto and manual scaling Touchscreen adjustable level/span Fast auto toggle between manual and auto modes Fast auto-rescale in manual mode Minimum span (in manual mode) Minimum span (in auto mode) Smooth auto and manual scaling Yes Fast auto-rescale in manual mode Minimum span (in manual mode) Smooth auto and manual scaling Yes Fast auto-rescale in manual mode Minimum span (in manual mode) Smooth auto and manual scaling Yes Fast auto-rescale in manual mode Minimum span (in manual mode) Smooth auto and manual scaling Yes Fast auto-rescale in manual mode Yes Minimum span (in auto mode) Smooth auto and manual scaling Yes Minimum span (in manual mode) Smooth auto and manual scaling Yes Minimum span (in auto mode) Smooth auto and manual scaling Yes Minimum span (in auto mode) Smooth auto and manual scaling Yes Minimum span (in auto mode) Smooth auto and manual scaling Yes Minimum span (in auto mode) Smooth auto and manual scaling Yes Minimum span (in auto mode) Smooth auto and manual scaling Yes Minimum span (in auto mode) Smooth auto and manual scaling Yes Minimum span (in auto mode) Smooth auto and manual scaling Yes Minimum span (in auto mode) Smooth auto and manual mode Yes A ''e ''e' Yes LED light (torch) 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.	Rugged, ergonomic design	240 ° rotatable (articulating) lens					
Touchscreen adjustable level/span Past auto toggle between manual and auto modes Past auto-rescale in manual mode Minimum span (in manual mode) Minimum span (in auto mode) Built-in digital camera (visible light) Frame rate Laser pointer Laser pointer LED light (torch) Digital Zoom Pata storage and image capture Extensive memory options Yes. Span and level can be easily and quickly set by simply touching the screen Yes 1	Thermal sensitivity (NETD)**	≤ 0.05 °C at 30 °C target temp (50 mK)			≤ 0.05 °C at 30 °C target ten (50 mK)		
Fast auto toggle between manual and auto modes Fast auto-rescale in manual mode Minimum span (in manual mode) Minimum span (in auto mode) Built-in digital camera (visible light) Frame rate 60 Hz or 9 Hz versions Laser pointer Yes LED light (torch) Digital Zoom 2x, 4x, 8x Pata 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.	Level and span	Smooth auto and manual scaling					
Fast auto-rescale in manual mode Minimum span (in manual mode) Minimum span (in auto mode) Built-in digital camera (visible light) Frame rate GO Hz or 9 Hz versions Laser pointer Leser pointer Les po	Touchscreen adjustable level/span	Yes. Span and level can be easily and quickly set by simply touching the screen					
Minimum span (in manual mode) Minimum span (in auto mode) Built-in digital camera (visible light) Frame rate GO Hz or 9 Hz versions Laser pointer Leser pointer Les p	Fast auto toggle between manual and auto modes	Yes					
Minimum span (in auto mode) Built-in digital camera (visible light) Frame rate 60 Hz or 9 Hz versions Laser pointer Yes LED light (torch) Digital Zoom 2x, 4x, 8x Pata 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.	Fast auto-rescale in manual mode	Yes					
Built-in digital camera (visible light) Frame rate 60 Hz or 9 Hz versions Laser pointer Yes LED light (torch) Digital Zoom 2x, 4x, 8x Pata 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.	Minimum span (in manual mode)	2.0 °C (3.6 °F)					
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.	Minimum span (in auto mode)	3.0 °C (5.4 °F)					
Laser pointer LED light (torch) Pes LED light (torch) 10 2x, 4x, 8x 2x, 4x 10 2x,	Built-in digital camera (visible light)	5MP					
LED light (torch) Pigs 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.	Frame rate	60 Hz or 9 Hz versions					
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.	Laser pointer	Yes					
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.	LED light (torch)	Yes					
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.	Digital Zoom	2x, 4x, 8x 2x, 4x					
permanent storage.	Data storage and image capture	·		·			
Post-capture image editing (on camera) Yes, edit and analyze captured images on camera	Extensive memory options						
	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)					
Image file formats		.jpeg), or fully radiometric (.is2); no an	alveis software required for non-radi	ometric (hmn_ing) files		
Memory review	Non radiomotric (.bmp,			omotrio (.bmp, .jpg) mos		
Software	Thumbnail and full screen review Fluke Connect* SmartView* full analysis and reporting software with access to the Fluke Connect system*					
Export file formats with Fluke Connect*	Truke connect- t	,		connect system		
SmartView* software		Bitmap (.bmp), GII	F, JPEG, PNG, TIFF			
Voice annotation	60 seconds maxim	um recording time per image; review	able playback on camera; Bluetooth	headset provided**		
IR-PhotoNotes™		Yes (5 i	mages)			
Advanced text annotation		Yes. Including standard shortcuts as	well as user programmable options			
Video recording		Standard and	l radiometric			
Jideo 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					
Remote control operation	Yes, through Fluke Connect Sn Fluke Connec	nartView» desktop software or t mobile app*		-		
Auto capture (temperature and interval)		Ye	es			
MATLAB* and LabVIEW* tool boxes	Integrate camera data, infrared vid- platforms to supp			-		
Battery						
Batteries (field-replaceable, rechargeable)	Two lith	nium ion smart battery packs with fiv	e-segment LED display to show char	rge level		
Battery life	2-3 hours per battery (Actual life varies depending on settings and		ery (Actual life varies depending on			
Detterme elle errer time e	usage)					
Sattery charge time	2.5 hours to full charge					
Rattery 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) User selectable sleep and power off modes					
ower saving		oser selectable sleep	and power on modes			
Cemperature measurement						
Pemperature 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)		
Accuracy	± 2 °C or 2 % (at 25 °C nominal, whichever is greater)					
n-screen emissivity correction	Yes (both value and table)					
On–screen reflected background emperature compensation	Yes					
On-screen transmission correction	Yes					
Live line marker	Yes					
Color palettes						
Standard palettes	8: Ironbow, Blue-Red, High Contrast, Amber, Amber Inverted, Hot Metal, Grayscale, Grayscale Inverted					
Jltra Contrast™ palettes	8: Ironbow Ultra, Blue-Red Ultra, High Contrast Ultra, Amber Ultra, Amber Inverted Ultra, Hot Metal Ultra, Grayscale Ultra, Grayscale Inverted Ultra					
General specifications		3				
		High tomporature love tomporatu	ro and igothorma (within range)			
Color alarms (temperature alarms) nfrared spectral band	High temperature, low temperature, and isotherms (within range) 7.5 µm to 14 µm (long wave)					
l'emperature	7.5 μm to 14 μm (long wave) Operating: -10 °C to +50 °C (14 °F to 122 °F); Storage: -20 °C to +50 °C (-4 °F to 122 °F) without batteries					
Relative humidity	10% to 95% non-condensing					
•	-					
Center-point temperature measurement	Yes Het and gold and markors individually analysis					
Spot temperature	Hot and cold spot markers, individually enabled					
Jser-definable spot markers	3 user-definable spot markers Expandable-contractible measurement box with MIN-MAX-AVG temp display					
Center box	,					
Safety	IEC 61010-1: Overvoltage Category II, Pollution degree 2					
Electromagnetic compatibility	IEC 61326-1: Basic EM Environment; CISPR 11, Group 1, Class A					
JS FCC	IEC 61326-1 CFR 47 Part 15 Subpart R					
	CFR 47, Part 15 Subpart B					
/ibration	0.0	0.03 g2/Hz (3.8 grms), 2.5g IEC 68-2-6 25 q, IEC 68-2-29/Engineered to withstand 1 meter (3.3 feet) drop with standard lens				
Shock/Drop	25 g, I	25 g, iec 66-2-29/Engineered to Withstand 1 meter (3.3 feet) drop with standard lens 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)				
Size (H x W x L)/Weight (battery included)	**************************************					
Enclosure rating		IEC 60529: IP54 (protected against dust, limited ingress; protection against water spray from all directions) Two-years (standard), extended warranties are available/Two-years (assumes normal operation and normal aging)				
Warranty/Calibration cycle						
Supported languages	Czech, Dutch, English, Finnish, French, German, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Simplified Chinese, Spanish, Swedish, Traditional Chinese, and Turkish					

^{*}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.



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Smart phone wireless service and data plan not included with purchase. Fluke Connect is not available in all countries.

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