

TECHNICAL DATA

Fluke TiX885 and TiX875

Expert Series Thermal Imaging Cameras with GPS



IR Resolution

640 x 480

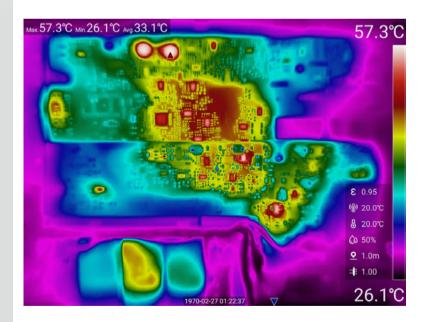
SuperResolution

• TiX885 Enhanced to 1280 x 960 pixels

Thermal Sensitivity*

- TiX885 <25 mK @ 30 °C
- TiX875 <30 mK @ 30 °C

- This Series features 640 × 480 infrared pixels: Clear and sharp thermal image, insight into temperature and changes. 1280 × 960 SuperResolution can also be supported for TiX885.
- Up to 30 Hz frame rate (TiX885 and TiX875) for efficient testing: Smoothly observing the target temperature rise and drop process, no lag as you walk.
- Flexible operation: 180 ° rotatable lens, the lens angle can be adjusted at any time; 5.5-inch OLED touch screen to achieve efficient and convenient operation; lithium battery supports > 3.5 hours of battery life, no pressure in outdoor testing.
- Reliable tool for industrial O&M: Identify devices, organise test data and mark GPS location through QR code (TiX885).
- Excellent assistant for experimental R&D: Record fully-radiometric IR video streaming + data streaming (TiX885, TiX875), which can also be imported into a PC for secondary analysis via the SmartView IR software.
- \bullet Support up to 1200 °C (TiX885) to meet requirement of high temperature testing for various industries.





Specifications

	TiX875	TiX885			
Detector	111010	IMOOO			
IR Resolution	640 × 480				
SuperResolution	- Enhanced to 1280 × 960 pixels				
	220 mV @ 20 °C				
Thermal Sensitivity* Field of View (FOV)	<30 mK @ 30 °C				
	25° × 19°				
Spatial Resolution (IFOV) Digital Zoom	0.68 mRad 1 to 25x 1 to 35x				
Detector Type	10.00				
Spectral Response	Focal Plane Array (FPA), Uncooled Infrared Detector 7 to 14 um				
Lens Aperture	7 to 14 um F 1.0				
Lens Recognition	Auto				
Minimum Focus Distance	0.2 m				
Focus System	O.Z III Auto/Manual				
Frame Rate	·	Hz			
Measurement and Analysis		111			
Temperature Range	-40 °C to 700 °C	-40 °C to 1200 °C			
Tomporature range		-40 °C to 150 °C			
Temperature Measurement Range	-40 °C to 150 °C 0 °C to 350 °C 0 °C to 700 °C	0 °C to 350 °C 0 °C to 700 °C 300 °C to 1200 °C			
Temperature Accuracy	±2 °C or ±2%, whichever is greater (normal temperature, 23 °C typical)				
High/Low-Temperature Capture	Ye	es			
Reference Temperature Compensation	Yes. The full-screen and measurement mark temperature are displayed as the difference between the actual temperature and the fixed temperature				
Automatic Temperature Difference Calculation	Calculation of the difference between measurement marks or between a measurement mark and the fixed reference temperature				
Custom Temperature Measurement Point	20 points	20 points			
Custom Temperature Measurement Area	20 areas (circle or rectangle)	20 areas (circle or rectangle)			
Line Temperature Measurement	20 lines 20 lines				
Temperature Measurement Methods	The highest and lowest temperature can be set within an area, and the highest/lowest temperature point can be automatically located				
Correction Settings	Emissivity, Reflected Temperature, Humidity, Am	bient Temperature, Test Distance, Transmittance			
Full-Screen Emissivity Correction	0.01 to 1.00, built-in comm	on material emissivity table			
Areal Emissivity Correction	Ye	es			
Analysis in the Imager	Yes				
Analysis Software	SmartView IR				
Supported Languages	Simplified Ch	inese/English			
Image Display					
Display	OLED touchscreen, 170° visual range				
Display Size	5.5 ir				
Display Contrast	100000:1				
Display Resolution		1080P UHD display			
Digital Image Enhancement Settings for On-Screen Display (OSD)	Yes. Users can define OSD, such as the maximum, minimum, average temperature, full-screen				
Settings for Information Display of Temperature Measurement Mark	emissivity and reflected temperature Yes. Each temperature measurement mark can be set separately, such as emissivity				
Built-in Digital Camera	Yes				
LED Torch/Flashlight	Yes				
Picture-in-Picture (PIP)	Yes				
Colour Palettes	15				
Manual Image Adjustment	Yes				
Auto Image Adjustment	Yes				
Minimum Temperature Span (in manual mode)	2 °C				
Minimum Temperature Span (in auto mode)	4 °C				

^{*} Under best case scenario



Video						
Fully-Radiometric Infrared Video Recording	Recorded to the Imager and PC	Recorded to the Imager and PC				
Fully-Radiometric Infrared Video Recording (Frame Rate Adjustable)	1 to 12 Hz	1 to 12 Hz				
Fully-Radiometric Infrared Video Streaming	USB 2.0	USB 2.0				
Non-radiometric Infrared Video Streaming (HDMI output)	Transmission via HDMI					
Auto Capture	Interval of 1 s to 60 min 59 s					
Professional Functions						
Colour Alarm (Isotherm)	Yes. High temperature alarm, low temperature alarm					
QR Code Recognition	- QR code supported					
Voice Annotation	Yes. 200 s of voice ann	Yes. 200 s of voice annotation for every image				
Text Annotation	Yes					
Visible Light Image Association Technology	Y	Yes				
Storage and Transfer						
Image Viewing	Thumbnail view naviga	ation and view selection				
Storage Medium	Built-in 16G flash + 128 high-speed SD card					
SD Card	Inclu	Included				
IR Image File Format	Standard JPEG, including measurement data, which meets the data format verification requirements of the State Grid for Infrared Imagers					
Video File Format	.MP4.IS5					
Visible Image File Format	Standard JPEG format					
Audio	Yes					
Transfer Interface	USB Type-C, HDMI, SD card, Bluetooth					
Bluetooth Transfer	Yes. The saved files can be transferred to a PC via Bluetooth.					
GPS	-	Yes				
Remote Display Viewing	Yes. View thermal video streaming on a PC or a display terminal by connecting to the SmartView I software on a PC via USB, or connecting to a display terminal via HDMI					
Remote Control Operation	Yes. Through the Sm	Yes. Through the SmartView IR Software				
USB	USE	USB 2.0				
Antenna	Inte	Internal				
Bluetooth Transfer						
Frequency	2400 MHz to 2483.5 MHz					
Output Power	<100	O mW				
Laser						
Laser Standard	IEC 60825-1, Class	IEC 60825-1, Class 2; 650nm; <1mW				
Power and Environment						
Battery Type	Li-ion batte	eries (3 pcs)				
Battery Life	> 3.5 hrs for continuous use @	> 3.5 hrs for continuous use @ ambient temperature of 25 ° C				
Weight	1550 g (with battery)					
Dimensions	148 mm × 204 mm × 86 mm					
Certification Standards	IEC 61326-1: Industrial Electromagnetic Environment; CISPR 11: Group 1, Class A					
	UNC 1/4"-20 Standard Tripod Mounting Thread					
Tripod Mounting Base	UNC 1/4"-20 Standard 1	Tripod Mounting Thread				
Tripod Mounting Base Warranty		Tripod Mounting Thread ears				



Optional Lens								
	Standard Lens	Tele-photo lens 7° TIX800 4X TELE, TIX800 7C TELE LEN	Tele-photo lens 12° TIX800 2X TELE, TIX800 12C TELE LEN°	Wide lens 46° TIX800 2X WIDE, TIX800 46C WIDE LEN	Macro lens 50um TIX800 MACRO, TIX800 50UM MACRO LEN	Macro lens 25um TIX800 MACRO, TIX800 25UM MACRO LEN		
		5516646	5516631	5516654	5516668	5516679		
Lens Material	Germanium	Germanium	Germanium	Germanium	Germanium	Germanium		
IFOV (Spatial resolution) mrad	0.68mrad	0.22mrad	0.34mrad	1.36mrad				
Field of View (FOV) "Hx"V	25° x 19°	8° x 6°	12° x 9°	50° x 39°	50um	25um		
Minimum Focus Distance	0.5m	3m	2m	1m	Fixed focus 77.5mm	Fixed focus 9.4mm		
Focal Length	25mm	-77.4mm	50mm	13mm				



Fluke. Keeping your world up and running.®

Fluke Corporation

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

For more information:

Fluke Australia Unit 16, 5 - 7 Anella Avenue Castle Hill, NSW, 2154 Australia

Phone: 1300 1 FLUKE (38553) Fax: +61 2 8850 3300 Email: auinfo@fluke.com Website: www.fluke.com.au

©2023 Fluke Corporation. 3/2023

It is strictly prohibited to modify this document without written permission.