TECHNICAL DATA

Fluke TiX875/885 Thermal Camera

Key features

- Standard 640×480 infrared resolution and 1280 x 960 SuperResolution for sharper thermal image quality to support analysis
- Up to 30 Hz frame rate (TiX885, TiX875): Dynamic temperature changes are captured with ease for advanced applications
- Flexibility: 180 ° articulating lens for shooting flexibility; large 5.5-inch OLED touchscreen for easier viewing
- Portability: Lithium battery supports > 3.5 hours of battery life to support field operation
- Asset Tag: Identify assets and organize test data with GPS locations information+D28 through QR code scan (TiX885)
- On-board Analysis: Supports full-radiometric IR video streaming recording and real-time data streaming on the device (TiX885, TiX875). Data can be exported to SmartView IR software for further analysis and reporting.
- Wide temperature range: Support up to 1200 ⬚ (TiX885) to meet requirement of high-temperature tests for various industries

Product overview: Fluke TiX875/885 Thermal Camera

The 5.5" OLED touchscreen Fluke TiX885 is a 640 x 480 thermal imager with superior performances of resolution of up to 1280 x 960 in SuperResolution mode is used to capture sharp images of objects at greater distances for more accurate analysis. It comes with 30 Hz frame rate to record dynamic temperature changes on static objects or moving targets with ease.

The 180° articulating lens helps to easily capture images at outdoor applications or hard-to-reach areas. This flexible and ergonomic design improves the experience for long duration inspections. The Fluke SmartView IR desktop software provides a suite of advanced tools to perform analysis, annotation, and generate customisable professional reports.

Specifications: Fluke TiX875/885 Thermal Camera

	TiX875	TiX885
Detector		
IR Resolution	640 × 480	
SuperResolution	-	Enhanced to 1280 × 960 pixels
Thermal Sensitivity* *(* Under best case scenario)*	<30 mK @ 30 °C	<25 mK @ 30 °C
Field of View(FOV)	25° × 19°	
Spatial Resolution (IFOV)	0.68 mRad	
Digital Zoom	1 to 25x	1 to 35x
Detector Type	Focal Plane Array (FPA), Uncooled Infrared Detector	
Spectral Response	8 to 14 um	
Lens Aperture	F 1.0	
Lens Recognition	Auto	
Minimum Focus Distance	0.2 m	
Focus System	Auto/Manual	
Frame Rate	30 Hz	30 Hz
Measurement and Analysis		
Temperature Range	-40 °C to 700 °C	-40 °C to 1200 °C
Temperature Measurement Range	-40 °C to 150 °C	-40 °C to 150 °C
	0 °C to 350 °C	0 °C to 350 °C
	0 °C to 700 °C	0 °C to 700 °C
		300 °C to 1200 °C
Temperature Accuracy	±2 °C or ±2% of reading, whichever is greater (normal temperature, 23 °C typical)	
High/Low-Temperature Capture	Yes	
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, Ambient Temperature, Test Distance, Transmittance				
Full-Screen Emissivity Correction	0.01 to 1.00, built-in common material emissivity table				
Areal Emissivity Correction	Yes				
Analysis in the Imager	Yes				
Analysis Software	SmartView IR				
Supported Languages	Simplified Chinese/English				
Image Display					
Display	OLED touchscreen, 170° visual range				
Display Size	5.5 inches				
Display Contrast	100000: 1				
Display Resolution	1920 × 1080 pixels, 1080P UHD display				
Digital Image Enhancement	Yes				
Settings for On-Screen Display (OSD)	Yes. Users can define OSD, such as the maximum, minimum, average temperature, full-screen emissivity and reflected temperature				
Settings for Information Display of Temperature Measurement Mark	Yes. Each temperature measurement mark can be set separately, such as emissivity				
Built-in Digital Camera	5.0 MP				
LED Torch/Flashligh	Yes				
Picture-in-Picture (PIP)	Yes				
Color Palettes	15				
Manual Span Adjustment	Yes				
Auto Span Adjustment	Yes				
Minimum Temperature Span (in manual mode)	2 °C				
Minimum Temperature Span (in auto mode)	4 °C				
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	Customized frame rate or interval	
Professional Functions		
Color Alarm (Isotherm)	Yes. High temperature alarm, low temperature alarm	
QR Code Recognition	-	QR code supported
Voice Annotation	Yes. 200 s of voice annotation for every image	
Text Annotation	Yes	
Visible Light Image Association Technology	Yes	
Storage and Transfer		
Image Viewing	Thumbnail view navigation and view selection	
Storage Medium	Built-in 16G flash + 128 high-speed SD card	
SD Card	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	.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 IR software on a PC via USB, or connecting to a display terminal via HDMI	
Remote Control Operation	Yes. Through the SmartView IR Software	
USB	USB 2.0	
Antenna	Internal	
Bluetooth Transfer		
Frequency	2400 MHz to 2483.5 MHz	
Output Power	<100 mW	
Laser		
Laser Standard	IEC 60825-1, Class 2; 650nm; <1mW	
Power and Environment		
Battery Type	Li-ion batteries (3 pcs)	

Battery Life	> 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
Tripod Mounting Base	UNC 1/4"-20 Standard Tripod Mounting Thread
Warranty	2 years
Recommended Calibration Period	2 years (assuming normal operation and aging)

Ordering information

Fluke TiX885

Fluke TiX885 Thermal Camera

- Fluke TiX885 Thermal Camera (standard lens)
- Rechargeable Li-ion Batteries (3 pcs)
- Power Adapter
- Battery Charger
- Lens Cover
- USB Cable
- HDMI Cable
- High-Speed SD Card
- Card Reader
- Safety Information
- Quick Reference Guide
- Hand Strap
- Neck Strap
- Hard Carrying Case

Fluke TiX875

Fluke TiX875 Thermal Camera

- Fluke TiX875 Thermal Camera (standard lens)
- Rechargeable Li-ion Batteries (3 pcs)
- Power Adapter
- Battery Charger
- Lens Cover
- USB Cable
- HDMI Cable
- High-Speed SD Card

- Card Reader
- Safety Information
- Quick Reference Guide
- Hand Strap
- Neck Strap
- Hard Carrying Case

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https://www.fluke.com/en-au/product/thermal-cameras/tix875-885