

TECHNICAL DATA

Fluke Ti480U Ti401U Ti300U Infrared Thermal Cameras



Key features

- It is equipped with a new sensor and optical system, the imaging effect breaks the parameter limit, the image sharpness is further improved, the target is clearer, and the problem region is presented more clearly
- UltraFocus focusing technology: effective focusing with image algorithm, it can automatically focus in 1 s according to
 the temperature difference in complex scenes; laser autofocus, free choice of test targets; continuous auto focus
 function makes inspection work easier
- Up to 30Hz frame rate, the full range of "camera motion" for smooth and free observation, video recording without frame drop or lag
- Temperature measurement range up to 1200 °C to verify higher process requirements and explore more R&D fields
- Support up to 10x digital zoom, free screen zooming, check long-distance targets: high-voltage equipment, overhead pipelines, large mechanical equipment
- SmartView IR software for PC to process thermal video, analyze data, export reports, and complete the final step of the ioh
- Classic industrial design: inheriting the appearance design and material of the Vision Series, it is still comfortable to hold with one hand and easy to operate, and it is not easy to fatigue for long time use



Product overview: Fluke Ti480U Ti401U Ti300U Infrared Thermal Cameras

The Fluke Vison Series is one of the well-received thermal ameras, from Ti200, Ti300, Ti400 to Ti480Pro Series, we listen to the voice of users all the way to iterate better product performance.

With the support of the new sensor, the Vison Series now gets into a "brand new stage" and makes a substantial progress in image quality, focus speed and test functions. While retaining the classic industrial design, it improves user experience and help users with practical work.

We believe that every day engineers are making things better around them, and Fluke is also striving for this common goal together with its users.

Specifications: Fluke Ti480U Ti401U Ti300U Infrared Thermal Cameras

Function Parameter	Fluke Ti480u	Fluke Ti401u	Fluke Ti300u	
Basic Parameters				
IR resolution	640 × 480	640 × 480	384 × 288	
SuperResolution	1280 × 960	-	-	
Detector type	Uncooled focal plane infrared detector			
Thermal sensitivity (NETD) @ 30 °C	50 mk (0.05 °C)	75 mk (0.075 °C)	75 mk (0.075 °C)	
Spectral response	7 to 14 μm			
Image frame rate	30 Hz	9/30 Hz	9/30 Hz	
Lens Field of View (FOV)	25° x 19°			
Spatial resolution (IFOV)	0.68 mrad	0.68 mrad	1.14 mrad	
Minimum imaging distance	0.25 m	0.1 m		
Lens focal distance	f 24.8 f 15		f 15	
Focus	Auto / Manual Focus			
Lens recognition	Auto			
	2x telephoto lens			
Optional lens	4x telephoto lens			
	Wide-angle lens			
Digital Zoom	1-10x	1-10x	1-4x	
Measurement Analysis				
Temperature range	-20 °C to 1200 °C	°C to 1200 °C -20 °C to 650 °C		



Temperature measurement range	-20 °C to 120 °C	-20 °C to 120 °C			
	0 °C to 650 °C	0 °C to 650 °C			
	300 °C to 1200 °C				
Intelligent range	Yes	Yes	Yes		
Temperature accuracy	±2 °C or 2%, whichever is grea	ter (@ 23 °C ± 5 °C an	nbient temperature)		
Temperature measurement area	Spots: 16				
	Lines: 8				
	Areas: 12				
Global temperature measurement correction	Support emissivity, environment temperature, reflected temperature, relative humidity, temperature measurement distance, IR window (temperature and transmittance) correction				
Area temperature measurement correction	Yes				
Area audible alarm	Support high and low temperature alarm for the highest, lowest and average temperature of the area				
Temperature rise function	Reference temperature can be the highest, lowest, average or custom temperature of the area				
On-Imager analysis	The thermal photos or videos are directly analyzed in the Imager				
Analysis software for PC	SmartView IR				
Image Display					
Display Screen	3.5" LCD, 640 × 480				
Image mode	Thermal image, visible image, PIP				
	Grey, Iron 10, IronRed, Rainbow, Grey10, GreyRed, MidGrey, Yellow and Rain				
Palettes	Palettes can be inverted				
	Support real-time palette preview and switching				
	Support automatic adjustment of temperature span (min. 3 °C)				
Temperature span mode	Support manual adjustment of temperature span (min. 2 °C)				
Temperature opanimode	The maximum and minimum value of temperature span can be selected by touch (min. 2 °C)				
Color and audible alarm	Yes. Above the temperature, below the temperature and between the temperature				
Information displayed on the image	Display the global maximum, minimum, average temperature and temperature measurement parameters				
High/low temperature tracking	Marking and automatically tracks high and low temperature points				
IR-Fusion					
Blending degree of a visual photo	0% to 100%				
and an infrared thermal image			Yes. The size, position and blending degree of infrared window can be adjusted		
and an infrared thermal image Picture-in-Picture (PIP)	Yes. The size, position and ble	ending degree of infrar	ed window can be adjusted		
	Yes. The size, position and ble	ending degree of infrar	ed window can be adjusted		



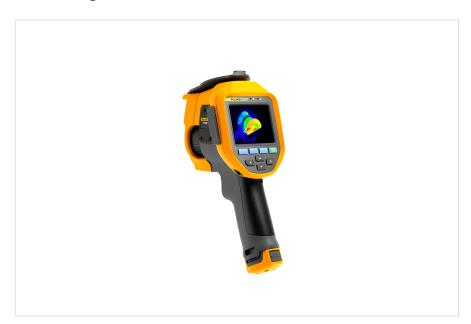
Memory card	Micro SD card, standard 32 GI	B; expandable to 64	GB, 128 GB	
Shooting Mode	Support single frame and time	e-lapse shooting		
Image format	.bmp .jpg			
Screen freeze	Support single frame shooting and fully- radiometric video recording	Support single frame shooting	Support single frame shooting and fully-radiometric video recording	
Code scanning function	Yes. A QR code and barcode can be scanned as a label			
Annotation function	Support voice, text and label a	innotation		
IR-PhotoNotes	5 images	2 images	2 images	
Fully-radiometric video recording	Support thermal video recording for analysis	-	Support thermal video recording for analysis	
Non-fully-radiometric video recording	Support thermal video, visible video recording (only for viewing, not for analysis)	-	Support thermal video, visible video recording (only for viewing, not for analysis)	
Video frame rate	1 Hz to 9/16 Hz	-	1 Hz to 9/16 Hz	
Video Format	.is5, .mp4	-	.is5, .mp4	
Gallery	Support viewing, editing and d	leleting captured the	rmal images and video files	
Data Connection				
Bluetooth connection	Support BT4.2 LE			
USB interface	Type-A, USB 2.0			
HDMI interface	Mini HDMI interface, HDMI 1.4			
Fully-radiometric video analysis via PC software	Fully-radiometric video analysis via PC software			
Remote display via software	Yes	-	-	
Remote operation via software	Yes	-	Yes	
HDMI output	Support connection to a display or a projector via the HDMI interface			
Ancillary Function				
Laser	Yes			
Temperature feature measurement	Support measuring the length of the temperature measurement line; support measuring the rectangular and circular area of the temperature measurement area			
LED torch/flashlight	Support flashlight and flash mode			
Power System				
Battery type	7.2V, 19Whr lithium battery, replaceable and rechargeable on field			
Battery life	2 to 3 hours/battery (*Actual life depends on settings and usage)			
Charge Mode	10-15 V DC charging			
Charging time	2.5 hours to full charge			
Energy saving management	Auto screen-off			



Battery charge	Ti SBC3B Two Bay Battery Charger (100 V ac to 240 V ac, 50/60 Hz, included), or in-Imager charging. Optional 12 V automotive charging adapter.		
External power supply	Power adapter (110 to 220 V, 50/60 Hz AC power)		
Reliability and Certification			
Safety standard	IEC 61010-1: pollution degree 2		
Electromagnetic Compatibility (EMC)	International: IEC 61326-1: Industrial Electromagnetic Environment; CISPR 11: Group 1, Class A Korea (KCC): Class A Equipment (Industrial Broadcasting & Communication Equipment)		
Radio frequency	2400 MHz to 2483.5 MHz		
Radio output power	<100 mW		
Laser	IEC 60825-1, Class 2; 650 nm; <1 mW		
Ingress protection rating	IEC 60529: IP52		
Drop test	Designed for 1 m drop resistance		
Physical Parameter			
Operating temperature	-10 °C to 50 °C		
Storage temperature	-20 °C to 50 °C, without battery		
Relative humidity	0% to 95% (non-condensing)		
Dimensions	27.9 cm x 12.2 cm x 17.5 cm		
Weight	1215 g 1188 g		1188 g
Warranty and Maintenance			
Warranty	2 years		
Recommended calibration period	2 years		
Supported Languages			
Supported languages	Simplified Chinese, English, Japanese, Korean, Traditional Chinese		
Optional Lenses			
Lens name	Field of view	Minimum imaging distance	
Standard lens	25° x 19°	0.1 m	
Wide-angle lens	44° x 34°	0.1 m	
2x telephoto lens	12° x 9°	1.0 m (Ti480U / Ti401U)\(0.25 m (Ti300U)	
4x telephoto lens	7° x 5°	1.0 m (Ti480U / Ti401U) 0.25 m (Ti300U)	



Ordering information



Fluke Ti480U

Fluke Ti480U

Thermal Cameras

- The Fluke Ti480U Thermal Camera
- Charger
- Battery
- Hard carrying case
- HDMI cable
- USB cable
- Safety information
- Report

Fluke Ti401U

Fluke Ti401U

Thermal Cameras

- The Fluke Ti401U Thermal Camera
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Fluke Ti300U

Fluke Ti300U

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