PIXELab
Thermal Solutions

P-TH-TM01
HANDHELD THERMAL IMAGER

FEATURES

- Thermal resolution: 384 x 288 (110,592 pixels)，NETD: ＜30 mK (@ 25 °C, F#=1.0)
- Temperature measurement range: -20°C to 550°C
- Measurement presets: Center spot, Hot spot, Cold spot
- ≧ 25 Hz image frequency
- 3.2'' LCD screen display
- Image enhancement technologies
- Start up time: Within 10 second (IR image)
- Support auto sleep mode
- Support screen lock function

The handheld thermal imager is a handheld temperature measurement product suitable for multiple scenarios. Equipped with a high-resolution detector, it delivers clear imaging and high thermal sensitivity, enabling effective detection of temperature variations and precise temperature measurement of targets. The handheld thermal imager supports multiple palettes, making it suitable for various on-site environments including fire detection, rescue, and buildings, etc.

* Technical specifications and images are subject to changes

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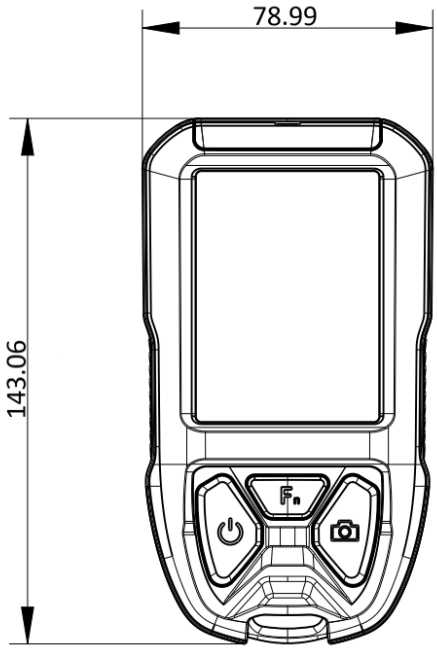
DIMENSIONS



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Technical Specification

Infrared Image	
IR Resolution	384 x 288 (110,592 pixels)
NETD	< 30 mK (@ 25 °C, F#=1.0)
Image Frequency	≧ 25 Hz
Detector Pitch	12 µm
Spectral Range	7.5 to 14 µm
Focal Length	3.6 mm
F-number	F1.0
Field of View (FOV)	37.2° × 50.0°
Spatial Resolution (IFOV)	3.33 mrad
Min. Focus Distance	0.3 m (0.98 ft)
Focus Mode	Focus Free
Image Display	
Display	640 × 480 Resolution, 3.2”LCD Screen
Digital Zoom	1x, 2x, 4x
Image Modes	Basic, Smooth, White Hot, Black Hot, Fire Detection, Rescue, Hot Area, Cold Area, Building
Measurement and Analysis	
Object Temperature Range	Range -20°C to 150°C Range 0°C to 550°C
Measurement Tools	Center Spot, Hot Spot, Cold Spot
Data Storage and Communication	
Storage Media	Built-in 4 GB flash memory
Image Storage Capacity	Approx. 8400 Images
Video Storage Capacity	Approx. 26.5 h
Video File Format	MP4

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General	
USB Interface	USB Type-C
LED Light	310 Lumen LED
Battery Type	Rechargeable Li-ion battery
Battery Charging Time	Approx. 3 hours via USB
Battery Operating Time	Approx. 6 hours
Protection Level	IP67, IEC 60529
Safety	EN 62368
Drop Test Height	2 m, IEC 60068-2-31
EMC	EN IEC 61000-6-2, EN IEC 61000-6-3
Vibration	2 g, IEC 60068-2-6
Shock	25 g, IEC 60068-2-27
Working Temperature Range	260°C, 5min
Storage Temperature Range	-20°C to 60°C
Relative Humidity	IEC 60068-2-30, 24 hours, 95% relative humidity, 25–40°C, 2 cycles
Dimension	Approx. 52.7×143.06×78.99 mm
Weight	Approx. 398 g

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