

HM-TB3317-3/M1-Mini Smartphone Module



The smartphone module helps you to measure skin-surface temperature, inspect electrical equipment, troubleshooting HVAC problems, look for subjects in darkness. Within 5 °C to 100 °C temperature measurement range, it covers most natural scenarios. Equipped with functional thermal App for smartphone, the Smartphone Module enables you to see a different world just by one plug.

▪ Key Feature

- Thermal resolution: 160 x 120 (19200 pixels)
- NETD : < 40 mK (@ 25 °C, F# = 1.0)
- Accuracy ± 0.5 °C (30 °C to 45 °C) ; ± 2 °C (5 °C to 30 °C, 45 °C to 100 °C)
- USB Type-C Interface (Android)
- 26 g Weight



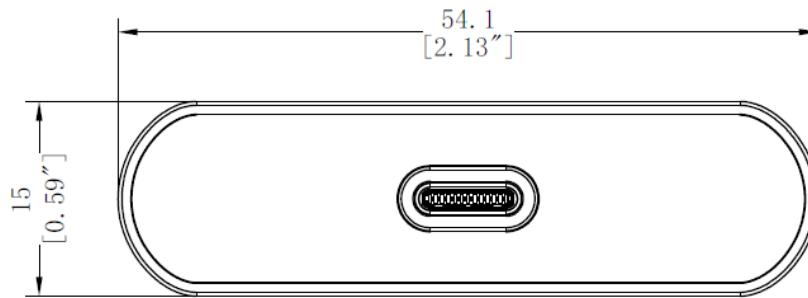
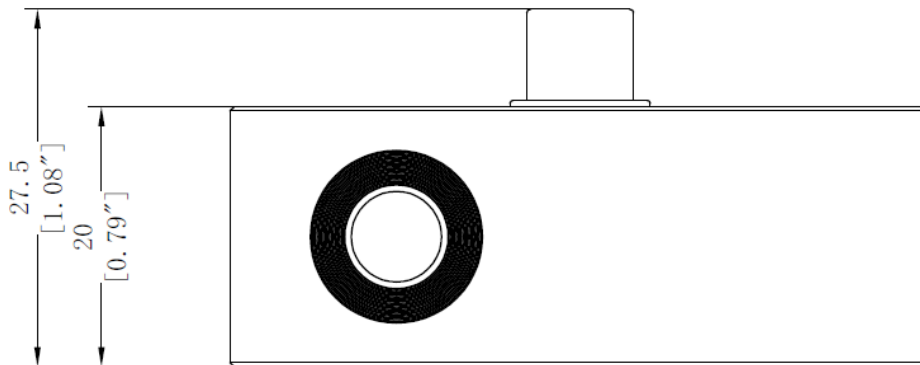
▪ Specification

Thermal Module	
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
IR Resolution	160 × 120 (19200 pixels)
Pixel Pitch	17 μm
Spectral Range	8 - 14 μm
NETD	< 40 mK (@ 25 °C, F#=1.0)
Focal Length	3.2 mm
Focus	Fixed
FOV (Field of View)	50° × 38° (H × V)
Image Frequency	25 Hz
Aperture	F1.1
Min. Focusing Distance	20 cm
Measurement and Analysis	
Object Temperature Range	5 °C to 100 °C
Accuracy	± 0.5 °C (30 °C to 45 °C) ; ± 2 °C (5 °C to 30 °C, 45 °C to 100 °C)
Measurement Presets	Hot Spot, 1 User Preset Point, 1 User Preset Box, Off
Storage	
Image File Format	JPEG
Video File Format	MP4
General	
Power Supply	Powered by Smartphone
Power Consumption	300mW
Working Temperature Range	15 °C to 35 °C
Protection level	IP40
Drop Test Height	1 m (3.28 ft)
Weight	26 g
Dimension	54.1 mm × 15 mm × 27.5 mm
Storage Temperature Range	- 20 °C to 60 °C
Phone	Android (USB Type-C Interface)

▪ Available Model

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▪ **Dimension**



Unit:mm[Inch]

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