

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 Features

- Thermal resolution: 160 × 120 (19 200 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 (19 200 pixels)
Pixel Pitch	17 μm
Spectrum Range	8 - 14 μm
NETD	< 40 mK (@ 25 °C, F#=1.0)
Focal Length	3.2 mm
FOV (Field of View)	50° × 38° (H × V)
Minimum Focus Distance	20 cm
Focus	Fixed
Image Frequency	25 Hz
Aperture	F1.1
Thermography Function	
Accuracy	±0.5 °C (30 °C to 45 °C) ; ±2 °C (5 °C to 30 °C, 45 °C to 100 °C)
Object Temperature Range	5 °C to 100 °C
Shutter	Automatic/Manual
General	
Power	Powered by Smartphone
Phone	Android (USB Type-C Interface)
Working Temperature Range	15 °C to 35 °C
Storage Temperature Range	-20 °C to 60 °C
Protection Level	IP40
Mechanical shock	Drop from 1 m
Weight	26 g
Dimension	54.1 mm × 15 mm × 27.5 mm
Power Consumption	300mW
APP	
Measurement Presets	Hot Spot, 1 User Preset Point, 1 User Preset Box, Off
Color Palettes	Black hot, White hot, Red hot, Rainbow, Ironbow, Fusion, Rain
Video Format	MP4
Image Format	JPEG

Available Model

HM-TB3317-3/M1-Mini

Packing List

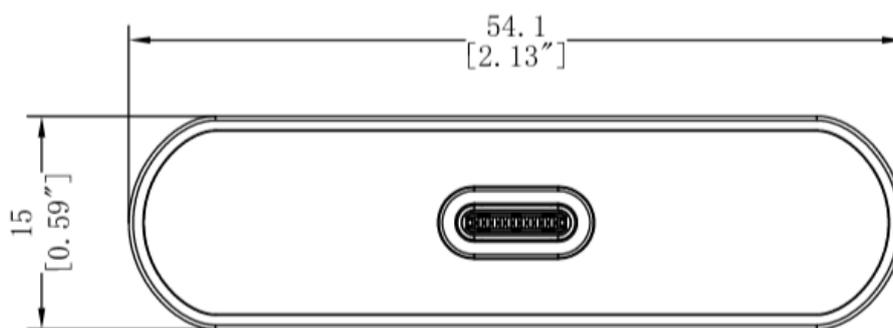
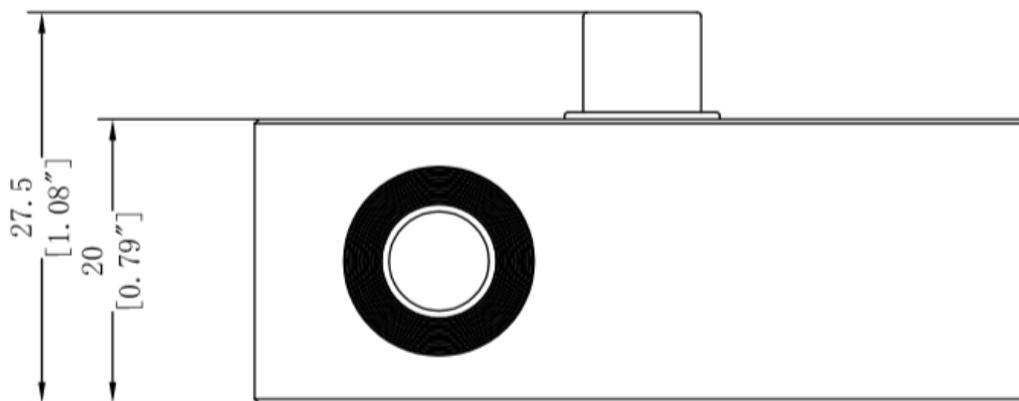


Storage bag (x1)



QSG (x1)

Dimension



Unit:mm[Inch]