

## 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:  $\pm 0.5^{\circ}\text{C}$  (0.9°F), for object temperature 30°C to 45°C (86°F to 113°F);  
 $\pm 2^{\circ}\text{C}$  (3.6°F), for object temperature 5°C to 30°C (41°F to 86°F ) and 45°C to 100°C ( 113°F to 212°F).  
Applicable 60 sec after start-up when the ambient temperature 15°C to 35°C (59°F to 95°F)
- USB Type-C Interface (Android)
- 26 g Weight

## Specification

<b>Thermal Module</b>	
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
<b>Thermography Function</b>	
Accuracy	±0.5°C (0.9°F), for object temperature 30°C to 45°C (86°F to 113°F); ±2 °C (3.6°F), for object temperature 5°C to 30°C (41°F to 86°F ) and 45°C to 100°C ( 113°F to 212°F). Applicable 60 sec after start-up when the ambient temperature 15°C to 35°C (59°F to 95°F)
Object Temperature Range	5 °C to 100 °C (41°F to 212°F )
Shutter	Automatic/Manual
<b>General</b>	
Power	Powered by Smartphone
Phone	Android (USB Type-C Interface)
Working Temperature Range	15 °C to 35 °C (59°F to 95°F )
Storage Temperature Range	-20 °C to 60 °C (-4°F to 140°F )
Protection Level	IP40
Mechanical Shock	Drop from 1 m (3.28 ft )
Weight	26 g (0.057 lb)
Dimension	54.1 mm × 15 mm × 27.5 mm (2.13" × 0.59" × 1.08")
Power Consumption	300mW
<b>APP</b>	
Measurement Presets	Hot Spot, Cold Spot, Center Spot, 1 Point Preset, 1 Area Preset, Off
Color Palettes	Black Hot, White Hot, Red Hot, Rainbow, Ironbow, Fusion, Rain
Video Format	MP4
Image Format	JPEG

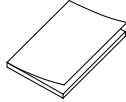
## Available Model

HM-TB3317-3/M1-Mini

## Packing List

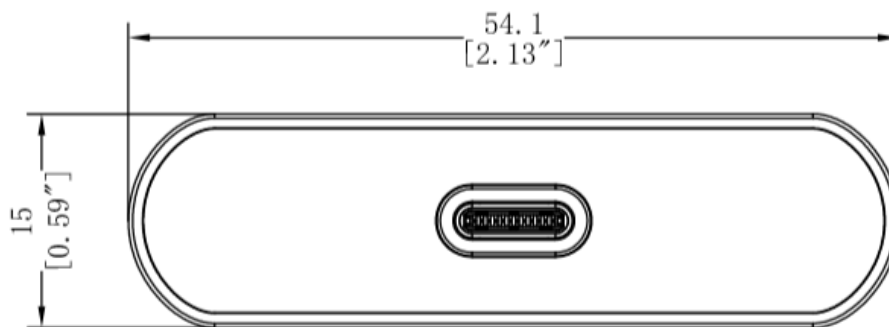
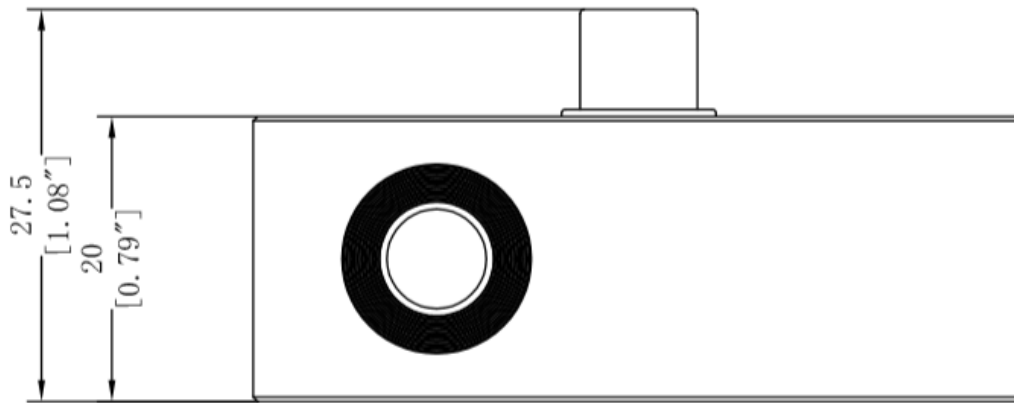


Storage bag (x1)



QSG (x1)

## Dimension



Unit:mm[Inch]