



HIKMICRO

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

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 (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
General	
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
APP	
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

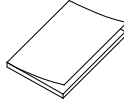
Available Model

HM-TB3317-3/M1-Mini

Packing List

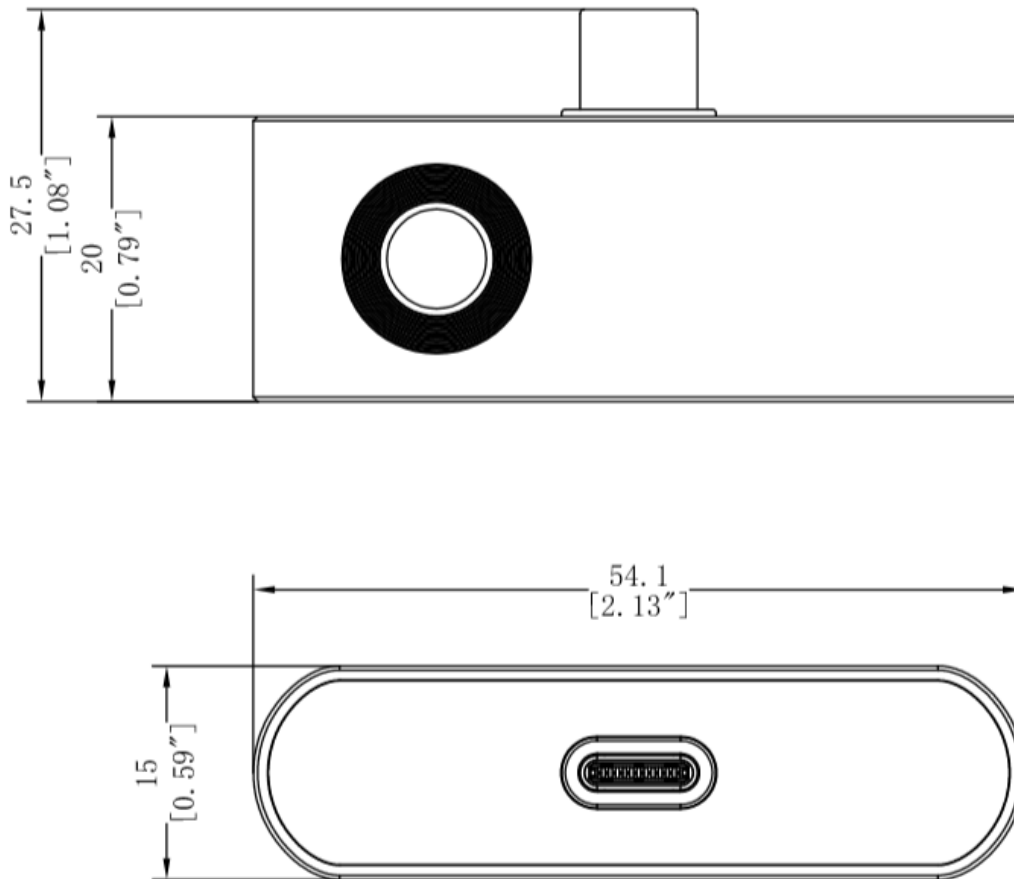


Storage bag (x1)



QSG (x1)

Dimension



Unit:mm[Inch]



Mini Series Android Phone Compatibility Table		
Brand	Model	comments
Samsung	Samsung Galaxy S8/ S9/ S10+/ S10e/ S20	To be compatible with the Mini Series, the mobile device must meet the minimum requirements and appear on the list as a compatible device. Minimum requirements: ➤ At least android version 5.0 ➤ At most android version 11.0 ➤ Permissions: phone album, OTG USB and Microphone Note: If your phone is not on the list, please fill in the consultation form then leave your phone model and android version in our official website. We will test your phone model and update the compatibility table in the future. Official website: http://www.hikmicrotech.com/en/contact
	Samsung Galaxy A8S, Samsung Galaxy A21s	
	Samsung Note9	
	Samsung Tablet TabS3	
Google	Google Pixel/ Pixel 2	
	Google Nexus 5X	
Huawei	Huawei Mate 9/ Mate 9 Pro/ Mate 10/ Mate 20/ Mate 20 Pro/ Mate 20 X/ Mate 30/ Mate 30 Pro	
	Huawei Nova 2S/ Nova 3/ Nova 4/ Nova 5/ Nova 6/ Nova6 5G	
	Huawei P9/ P20/ P20 Lite/ P30/ P30 Pro/ P40 Pro/ P40 Pro/ P40 Lite	
Honor	Honor 10/ 20/ 20 Youth Edition/ 30/ 30 Pro	
	Honor V10/ V30/ V30 Youth Edition	
	Honor X10	
	Honor Note 10	
Vivo	Vivo IQOOPro	
	Vivo NEX3 5G	
	Vivo X27/ X50	
OPPO	OPPO Find X	
	OPPO K5/ K7	
	OPPO R17	
	OPPO Reno/ Reno 2z/ Reno 3	
Redmi	Redmi K20 Pro	
	Redmi K30/ K30 Pro	
Meizu	Meizu 16th	
	Meizu Pro6plus	
Mi	Mi 6X/ 8/ 8 SE/ 9/ 10/ 10 Pro	
Xiaomi	Xiaomi Max3	
	Xiaomi Mix2s/ Mix3	
OnePlus	OnePlus 3/ 5/ 5T/ 7 Pro/ 7 Pro	
Smartisan	Smartisan SM901	
Motorola	Moto G Power	
Sharp	Sharp Aquos sense4	