M5-BIR Portable infrared thermal imaging temperature measurement device

-20℃~+400℃

Key parameters

- ◆ Thermal camera resolutions: 256*192/160*120 optional
- ◆ Style: Portable hand held type
- ◆ Industrial measurement temperature range: -20℃ ~ +400℃

  Accuracy: ≤ ±2℃
- ◆ Body measurement temperature range: 30℃ ~ +45℃

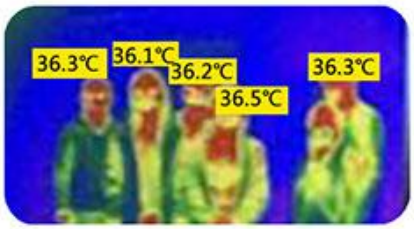
  Accuracy: ≤ ±0.3℃

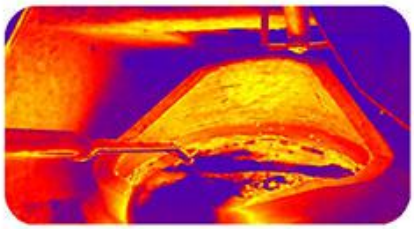
Product features

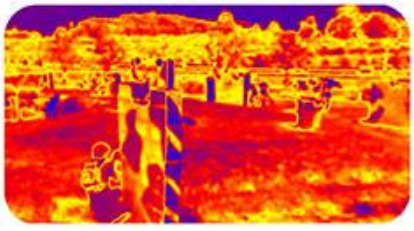
- ◆ Built-in high resolution thermal imaging camera
- ◆ No contacted operation protects operators safety
- ◆ Hand held type, flexible to use
- ◆ Rapid temperature measurement, automatic detection
- ◆ 5.7 inch high-definition display, 5000mAh battery

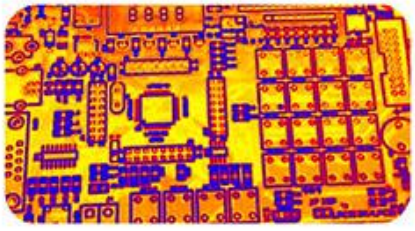
Product application

This device can be widely used in the epidemic prevention (temperature) rapid screening, security, health, research and development or industrial inspection and equipment maintenance, fire prevention, night vision and security, outdoor adventure (observation), search and rescue, night vision, hunting, petroleum chemical industry (high temperature alarm or thermal imaging characteristics of alarm), electric power industry system fault detection, construction, medical, automotive, aviation aerospace NDT, counter-terrorism, reconnaissance, anti-drug, border patrol (rescue, monitoring,), port channel.









M5-FIR specifications

Infrared thermal imaging module	
Thermal imaging resolution	256*192 or Optional 160*120
Image frame frequency	25Hz/50Hz
Response wave band	8~14μm
Temperature correction	The shutter correction
Measuring Range	Body temperature: 30℃ ~ +45℃, Industrial temperature: -20℃ ~ +400℃
Measuring accuracy	Body temperature: ≤ ±0.3℃, Industrial temperature:≤ ±2℃
Temperature measuring software system	
Feature	The machine realizes temperature measurement statistics and rapid temperature measurement control
Data management	Flexible data import and export, can be saved for 1 month in the device
Data statistics	The temperature data are closely related to the measured object
Cloud data	Scalable development and remote platform data docking
Development environment	
OS	Android 9.0
SDK	Support
Development language	Java
Development tool	Eclipse / Android Studio
Master chip	
CPU	Qualcomm SDM450, Octa-core, 1.8Ghz
Storage	4GB+64GB flash, support up to 128GB Micro SD card
Basic information	
Color	Grey
Length	165 mm
Width	80 mm
Thickness	23 mm (the position of the thermal imaging module is 47.5mm)
Weight	550g (the actual weight may vary according to configuration, manufacturing process and measurement method)
Button	Power button, volume + /volume - , 1 x function key
Screen	
Display	5.7 inch IPS, resolution 1440*720, brightness 400lux
Touch screen	High hardness capacitive touch screen, multi-touch support
Battery	
Capacity	Built-in non-detachable polymer battery, 5000mAh
Battery voltage	3.85V
Feature	High density battery
Communication interface	
Data transmission interface	WIFI, NFC, Bluetooth, WIFI hotspot, OTG

Charging interface	Support Type-C, support Qualcomm QC3.0 protocol
USB	USB2.0
SIM slot	2 SIM card slots
Data communication	
Communication network	LTE-FDD:B1/B3/B5/B7/B8/B20; LTE-TDD: B38/B39/B40/B41; WCDMA:B1/B2/B5/B8; GSM:900/1800MHZ;
WIFI	Built-in type, dual frequency support: 2.4g (2402-2482 MHz) / 5.8g (5180-5825 MHz), IEEE 802.11a/b/ G /n/ac
Bluetooth	Support BT4.2 LE standard, 2402-2480 MHz, CLASS 2 power
GPS	Support GPS/AGPS, GLONASS, accuracy 8m
Optional functionality	
NFC reader	NXP PN548 chip 13.56MHz frequency 1~4 cm reading range Support ISO/IEC 14443 A/ B, ISO15693, MiFare one S50/S70, CPU card, NFC cards and tags
QR code scanner	1D/2D barcode scanner
Work environment	
Working temperature	-15 °C ~ 50 °C
Storage temperature	-40 ℃ ~ 70 ℃
Environmental humidity	5%RH - 95%RH (no condensation)
Packing	
List	Device (built-in battery) × 1, Charger × 1 Type-C data cable × 1, User manual × 1 Warranty card × 1 (Remarks: the final product shall prevail)