

# A100

## Thermal imaging temperature measurement terminal

### Dimensions



### Overview

Safety: Contactless thermal imaging temperature measurement to avoid the risk of cross infection

Efficiency: The detection time is less than 200ms; can simultaneously detect more persons; Useful to manage fluxes of people

Stability: Black body real-time temperature calibration, more accurate temperature measurement

Detection rate: Face detection and temperature measurement to avoid interference from other environmental factors

Easy to deploy: Display body temperature through infrared thermal imaging camera

Services: 7 x24h

### Thermal imaging sensor

material	Vanadium oxide uncooled infrared focal plane detector
Thermal imaging	160*120 / 256*192 / 384*288
Temperature range	32°C~43°C, Precision 0.01°C
FO	Horizontal 40 degrees Vertical 30 degrees; Horizontal 40 degrees Vertical 30 degrees; Horizontal 37 degrees Vertical 28 degrees
Image output	6bit / 14bit / 14bit
Accuracy	32.0°C~34.9°C $\leq \pm 0.3^\circ\text{C}$ ; 35.0°C~42.0°C $\leq \pm 0.2^\circ\text{C}$ ; 42.1°C~42.9°C $\leq \pm 0.3^\circ\text{C}$
calibration	Built-in black body real-time calibration, black body temperature $\pm 0.01^\circ\text{C}$ Professional grade black body material with emissivity $\geq 0.95$ imported from Japan
Speed	<200ms
Distance	$\leq 3\text{m}$ / $\leq 5\text{m}$ / $\leq 7\text{m}$
Mode	1. Multiplayer mode (only temperature measurement) (supports up to 32 people) 2. Single mode (temperature measurement + live face comparison)

### Camera

COMS	AR0230
Resolution	1920 x 1080
Camera	f=3.85mm / f=6mm / f=9.7mm
FPS	30fps 1080p
FOV	110DB
Speed	Face detection rate $\leq 200\text{ms}$ , face frame to follow the tightness $\leq 30\text{ms}$

## Solution Detail

OS	Android 7.1
CPU	RK3399, Dual-core 1.8GHz+Quad-Core 1.4GHz
RAM	DDR4 2GB
ROM	EMMC 16G
Face data	Real-time comparison of 50000 face photos from local database
Data storage	Maximum storage of 200,000 pass records, cycle coverage, high temperature personnel records are kept for 30 days
size	273*137*91mm
Boot mode	Auto Power
System	Micro USB local or Network remote upgrade
Display output	HDMI output 1080P
Audio output	3.5mm Interface
USB	USB 2.0 *1
Network	2.4G WiFi,100M Ethernet RJ45*1, (4G optional)
Power	DC12V/5A
Clock	Support RTC clock, with RTC independent power supply

## Environmental requirements

Operating	Ambient temperature in the temperature range of 10 ~ 35 °C
Storage temperature	-20~60°C
Humidity	<85% (No condensation)
Environmental requirements	Indoor without wind environment

## Other

- 1、 The temperature measuring equipment should be used in a room where the room temperature is between 16°C-35
- 2、 Entering indoors from a cold outdoor environment requires temperature, and you need to wait for the body temperature to stabilize before performing the forehead temperature test;
- 3、 The temperature read by the temperature measuring device is the temperature of the forehead area. When there is water, sweat, or oil stains on the forehead, the temperature read will be lower than the actual temperature to ensure that this area is not blocked.

