

AI200 Thermal Imaging Face Recognition System

Instruction Manual



**Perfect
Prime**

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1. Overview

AI200 Thermal Imaging Face Recognition System is suitable for office areas, hotels, access gates, office buildings, schools, shopping malls, stores, communities, public services and management projects and other places that require rapid access and temperature measurement.





2. Product Features

- Imported high-precision and high-resolution thermal imaging modules
- High frame rate camera, high-definition pictures can be taken when the human body is moving fast
- It comes with an 8-inch touch screen, which can be used directly without an external display, or it can be connected to a large HDMI screen
- Support simultaneous identification and temperature measurement of 20 people at the same time
- Easy to use, ready to use after power on, built-in black body
- It comes with high-definition alarm prompts, supports direct export of reports, and stores 50,000 records offline

Precautions for use:

The temperature measurement ambient temperature range is between 10°C to 35°C. This product is not used as a medical device. Please turn on the electric heater for more than 15 minutes before using this machine. This product can be used outdoors!



3. Product Specifications

Screen

Size 8 inches, IPS LCD screen

Brightness 500 LU

Resolution 800*1280 HD screen

Touch screen Capacitive touch screen

Camera

Resolution 200W, 1080P

Number of cameras 1

Type RGB camera

Aperture F2.0

Focal length 6mm

Focus Fixed

White balance Automatic

Wide dynamic Support

Interface

Video HDMI2.0 Type-A interface 1

Relay output 1 relay interface

Network Interface 1 RJ45 10M/100M adaptive Ethernet port, WIFI

4G interface Support (optional accessories)

USB 1 way USB interface



3. Product Specifications

Temperature measurement function

Face Detection	Supports detection and tracking of 20 people at the same time
Temperature measurement distance	1 to 5 meters
Temperature measurement accuracy	$\leq \pm 0.3^{\circ}\text{C}$ within 2 meters, 3 meters to 4 meters $\leq \pm 0.4^{\circ}\text{C}$ 4m to 5m $\leq \pm 0.5^{\circ}\text{C}$
Temperature range	$32^{\circ}\text{C} \sim 42.5^{\circ}\text{C}$
Resolution of temperature measurement module	206 X 150/320 X 240
Direct release if the temperature is normal	Support
Body temperature alarm value can be set	Support
Wear a mask to identify	Support
Body temperature over temperature alarm	Support

General parameters

Protection class	IP42, Certain dustproof and waterproof function
Power supply	DC12V ($\pm 10\%$)
Operating temperature	$-10^{\circ}\text{C} \sim 60^{\circ}\text{C}$
Working humidity	10%~90%
Power consumption	10W MAX
Equipment size	Length255mm X Width170mm X Height210mm
Weight	4.3KG



4. Setting

Click setting and enter password to go to the menu, see below pictures with details (P1,P2)





5. Functions

5.1. Temperature calibration

Temperature calibration: It can adjust the temperature measurement if the temperature measurement function is inaccurate.

Steps:

1. Click Temperature calibration and enter the temperature calibration mode.
2. Let a person who has normal body temperature stand still in front of the temperature measuring gun. (2-3 meters distance)
3. The temperature calibration will be automatically completed after 30 seconds.





5. Functions

5.2. Temperature measurement calibration

When the temperature measurement is inaccurate, you can check whether the temperature measurement point is deviated or not.

Steps:

1. Click [**Temperature measurement calibration**] and enter the temperature measurement calibration mode.
2. Check whether the frame is in the middle of the face on the thermal imaging interface. If there is a deviation, you can adjust the position by clicking the four arrows (up, left, and right)
3. After the adjustment is completed, click [**Exit Calibration**] or click 6 times in the middle of the thermal imaging interface to complete the temperature measurement calibration and exit. The system will also automatically save and exit the calibration mode after 3 minutes.





5. Functions

5.3. Parameter settings

The function can set high temperature threshold, temperature compensation value, Relay on time, Record retention time days, IP address, Mask detection, Turn on voice Broadcast, Language setting, System setting, volume setting and USB flash disk upgrade.

- **High temperature threshold setting:** Set temperature measurement threshold, voice alarm over temperature.
- **Temperature compensation value:** Manually set the test body temperature for calibration.
- **Relay on time:** The time interval between the opening and closing of the relay.
- **Record retention time days:** store test data (support 0-3000 days, fill in -1 for permanent storage).
- **Mask detection:** Turn on: When the person do not wear the mask, it will take snapshot and save the data; If turn off the function it will do not take picture and save the data.
- **Turn on voice broadcast:** Turn on: Voice broadcast; Turn off: Silent.
- **Language switch:** Switch system language.
- **System setting:** Jump to the system settings interface.
- **Volume setting:** Adjust the volume.



5. Functions

5.4. Report statistics

It can query, export, and clear inspection records.

The screenshot shows a mobile application interface titled "Report Statistics". At the top, there are filters for "start time" and "end time", both set to "2021-04-08". To the right of these filters are buttons for "all", "query", "export", and "clear". Below the filters is a table with the following columns: "select all", "time", "photos", "body temperature", and "test results". The table contains eight rows of data, each representing an inspection record.

select all	time	photos	body temperature	test results
<input type="checkbox"/>	2021-04-08 19:22:32		36.7°C	normal
<input type="checkbox"/>	2021-04-08 19:22:32		36.7°C	normal
<input type="checkbox"/>	2021-04-08 19:22:32		36.7°C	normal
<input type="checkbox"/>	2021-04-08 19:22:32		36.7°C	normal
<input type="checkbox"/>	2021-04-08 19:22:32		36.7°C	normal
<input type="checkbox"/>	2021-04-08 19:22:32		36.7°C	normal
<input type="checkbox"/>	2021-04-08 19:22:32		36.7°C	normal
<input type="checkbox"/>	2021-04-08 19:22:32		36.7°C	normal

5.5. A key to clear

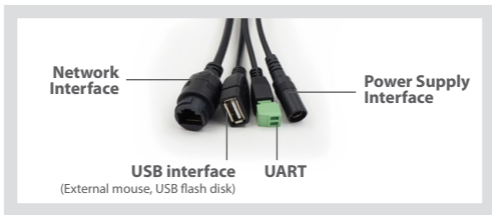
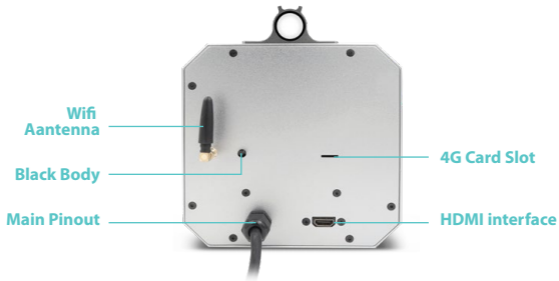
Clear all inspection data.

5.6. Exit menu

Exit the temperature measurement system.



6. Device Interface Indication





7. Size Description

8. Interface Description

7. Size description



8.1. Power interface

In the rear tail of the device  is the power input interface. Details are as follows:

Signal Name	Signal Direction	Function Description
12V	Neizheng	12VDC±10% DC input
GND	External negative	Power ground

The internal power input of the device has reverse polarity protection and surge protection.



8. Interface Description

8.2. Relay output

The alarm output is passive relay switch output, the contact voltage capacity is: 220V DC, 250V AC; the contact current capacity is 1 A; the power capacity is 30W.

8.3. Exit menu

The network interface marked in the device tail is the Ethernet interface of the face device, and the user can configure the parameters of the face device through the configuration tool.

8.4. USB interface

1 USB interface, can be used to connect mouse and USB flash disk.

8.5. HDMI high-definition video interface

An external high-definition large display screen can display temperature measurement information in real time.

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