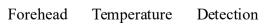
Human Living Body Temperature Detection

And Face recognition Terminal

Operation manual

(please read carefully before using the product)







Wrist Temperature Detection device

Attention

- This operation manual is for reference only. All appearance and functions of the product are subject to the actual product
- This product can be equipped with optional modules such as 4G, WiFi, ID identification, Weigen IC card reader, etc. Please refer to the actual product
- Do not aim the lens of the device at the object with strong light, as it will affect the capturing effect, or even damage the lens
- Please configure all passwords and other relevant product security settings, and take good care of your user name and password
- Biometrics products cannot be 100% suitable for any security environment or high security use, please use combination authentication
- The firmware of this device will be updated from time to time. For your better experience, please timely maintain and upgrade

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1 Product overview

1.1 Product introduction

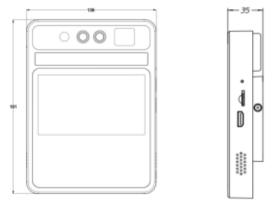
The human livding body temperature detection and face recognition terminal is a face comparison terminal product, providing human livding detection, body temperature detection, face capture and comparison and other basic functions. Wifi function, 4G, IC, ID and other corresponding software and hardware modules optional(Standard one do not include these features). It provides a more secure and convenient scheme for people access management. The device can be widely used in building access control, attendance, airport station security, community access control and other scenes.

1.2 Product features

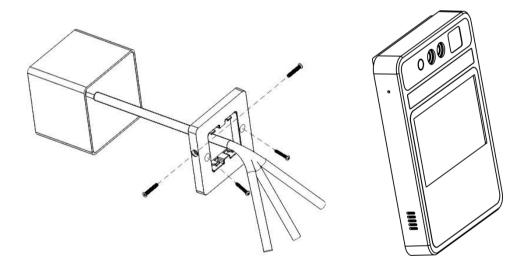
- 2MP HD video, integrated face capture and recognition.
- Abormal Temperature Alarm: Non-contact body temperature detection within One second,
- Forehead temperature testing distance: 25--40cm; Wris temperature testing distance: 0-3cm. Temperature detection error range ± 0.3°C. Abormal temperature trigger voice alarm and alarm output.
- Double sensor design, infrared vivo detection algorithm, effectively prevent photos and video fraud.
- IC card +ID card function module optional(not include), can achieve 1:1, 1: N comparison mode.
- The face recognition distance is within 0.5-3 meters, and the face can be recognized and registered in the picture across 260 pixels or more.
- Face detection technology based on improved multi-task cascade convolution neural network is adopted to reduce the requirement of image quality and greatly improve the detection speed of face.
 - With the deep learning algorithm, support 10000 face database storage.
- Support local login to query and setup device parameters, view real-time monitoring and face comparison results.
 - Support to configure device parameters in central center, provide security authentication.
- Flexible face data import, support single, batch picture file import and real-time snapshot import.
 - Support common person, white list person, blacklist person etc., different face type.
 - Support voice broadcast after face recognition
 - Support TFTP upload face recognition data.

- Support to run in offline mode
- Support TF card storage, can store 10W face capture and recognition records.
- Provide 485, I/O input and output, wigan and other peripheral interfaces.
- 4G module is optional to meet the needs of wireless transmission applications.

2 Installation(Dimension)



2.1 Wall Mount Installation



Step 1: Secure the wall fittings with two M4x25mm screws

Step 2: After connecting the wire, fasten the device to the wall fittings

Step 3: Use H2 hex screwdriver to lock the M3x25mm screws on both sides of the device

2.2 Floor support installation



Desktop
Material: aluminum alloy
Spec: Height28-43cm
adjustable, 360°rotate, 90°tilt
Diameter of base is 10cm, can
be fixed by screws, 3kg

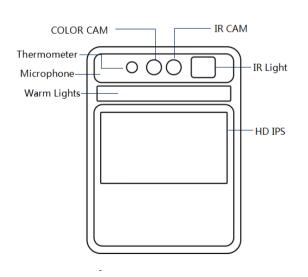


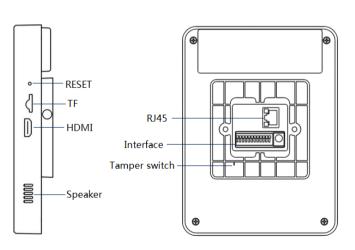
Floor Support
Material: Top quality steel
Spec: 0.8-1.5M adjustable,
360°roate, 180°tilt

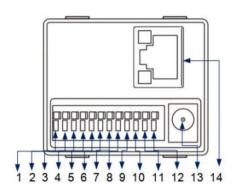


Floor Support
Material: Top quality steel
Spec: 1-1.5M adjustable,
Cross arm 25cm
Support to fix by screws

3 Wiring







1	RS485A	8	ALAM_ON (Relay normally close)
2	RS485B	9	ALAM_COM
3	GND	10	ALAM_OFF (Relay normally open)
4	WGD1 (Wiegand 1)	11	GND_IN (12V)
5	WGD0 (Wiegand 0)	12	12V0_IN (12V)
6	GND	13	POWER
7	ALAM_IN	14	RJ45

LCD Display Instruction

Forehead Temperature Detection Device



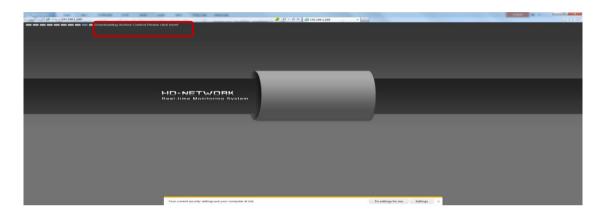
Wrist Temperature Detection Device



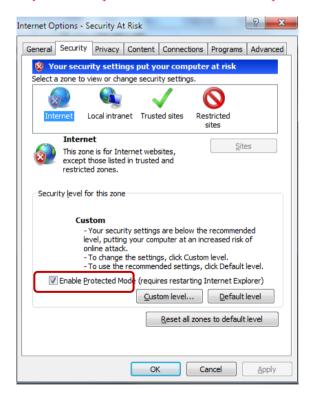
4 Client software

4.1 Control ActiveX installation

Login the device with Internet explorer browser and enter the IP address in the url bar. The device's default IP is 192.168.1.189 (or check the IP in the lower right corner of the device display screen after the power on). After login, download the control and install the control according to the prompts.



Note: if unable to download, modify Internet explorer browser "tools" menu options, tick off the protected mode.



4.2 Login interface

After installing the control, the desktop will generate the application icon . Double-click to run, and the following login interface will appear. Enter the device password (default is 888888) and click the "login" button to log in the device.



Or click to enter the device search interface, click the "search" button to search the device and select the device to log in.



4.3 Preview



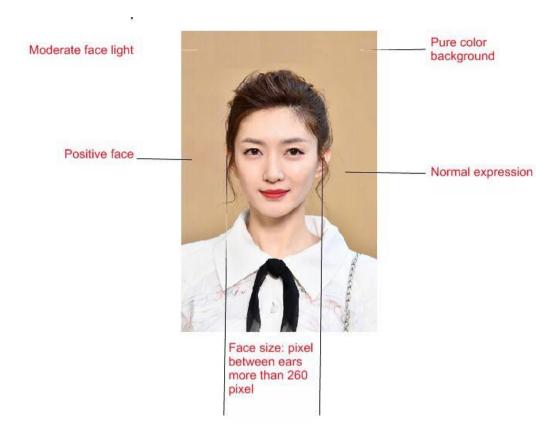
- ① Live preview window
- 2 Recognition results display: Similarity, Name, Description, Group, Temperature
- 3 Live face capture picture display: Capture time, temperature

4.4 List management

List management, face database management, single face registration, batch face registration, real-time face image import.

4.4.1 Face picture requirements

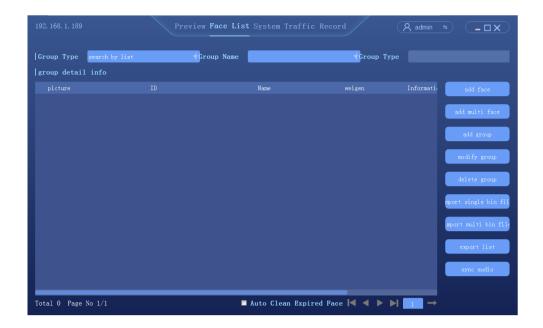
To ensure the accuracy of the recognition, use a recent and new photo. Only one face in the picture has a width of 260 pixels or more.



Note: face image must not be more than 1M, so as to avoid failure when importing face library

4.4.2 Single face import

Select "list management" to enter the list management interface, as follows.



Steps:

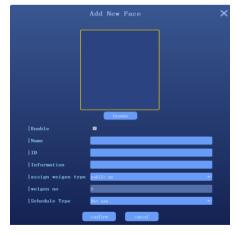
① Add group: set the group name and group type (whitelist, blacklist or visitor)



Description:

Visitor type grouping, setup the time period, and check Auto Clean Expired Face, then the face data will be automatically deleted from the face library after reach the expiration time.

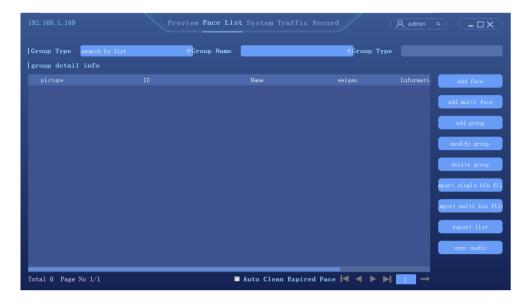
2 Select add new face



- ◆ Click [browse] to check the location of face photo and select
- ◆ Fill in name, ID, Information.,etc
- ◆ Click "confirm" to end

4.4.3 Batch add

Select "list management" to enter the list management interface, as follows.



Steps:

3 Add group: set the name and group type (whitelist, blacklist or visitors)



4 Select "add multiple faces"



- ◆ Click to setup face image import format; Note: the face photo naming format should be corresponding to avoid import failure
- ◆ Click [browse] and select the folder corresponding to face library
- ◆ Click confirm and wait for the import to complete the import

4.4.4 Real-time face image import

In Preview interface, when a person passes by the device, the device will keep to capture the human face.

Click the icon on the right side of the human face to view the picture captured in real time, as shown below:



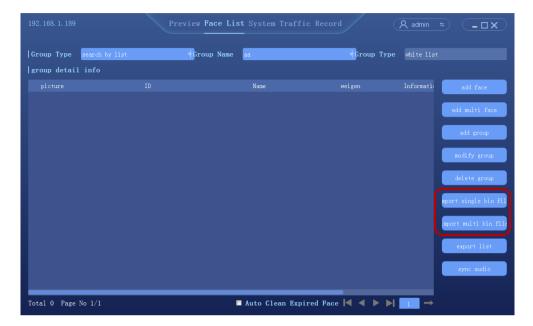
In the face history, select the face image as the template to import into the device



Note: For this import mode, groups need to be setup in advance in the list management

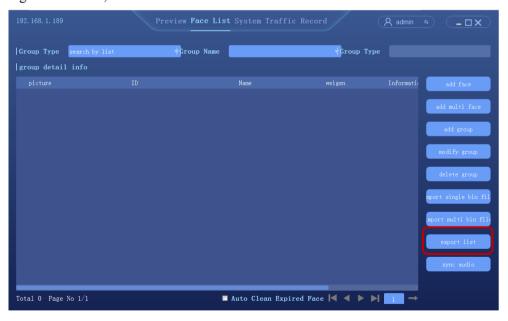
4.4.5 Binary format face library import

The device supports one or more binary format grouping face library import, select "single bin file" or "multiple bin file" respectively, as follows



4.4.6 Exported face library

In the list management screen, see below



- ◆ Click export face list;
- ◆ Setup the save path of face library export
- ◆ According to the group name, automatically export all groups in the face library, save the format as binary (.bin) file
- ♦ When finished, click "ok"

4.5 Peripheral control

4.5.1 Basic setup



4.5.2 Gate control



- Gate open type: can select relay or wegan two ways.
- Relay. : relay channel 0 (out0) or relay output channel 1 (out1).
- Delay time: hold time of opening state.

Open mode:

- ① Face: The capture face matched the face in database to open the gate.
- 2 Unification of face and ID card: The capture face matched the face in ID card to open the gate
- 3 Pass the gate: Once someone to open the gate

4.5.3 GPIO control



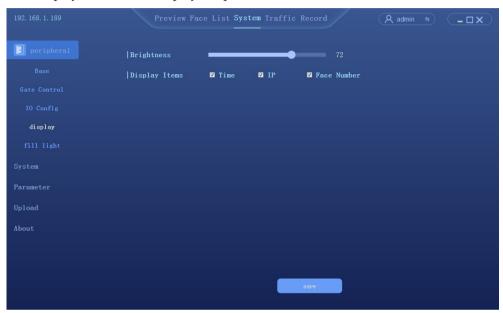
4.5.4 Wiegand setup



- Wiegand protocol (output): Wiegand 26/36/66 optional
- Wiegang number: To test the effect of wiegand number.
- Wiegand protocol(input): Wiegand 26/36/66 optional

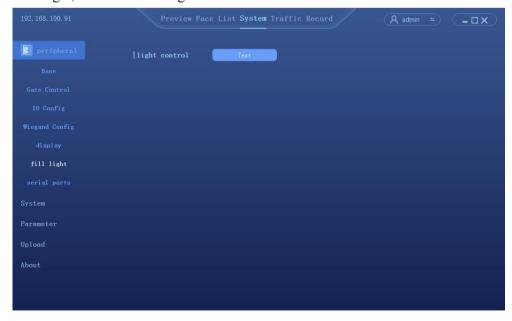
4.5.5 Display Settings

Click Peripheral->Display, to access the display setup



4.5.6 Fill Light

Click Peripheral->Light, to access the fill light interface



• To test the compensation light work status

4.5.7 Serial Port

Click Peripheral->Port, to access the Serial port setup



• Port Type: Send/Receive

4.6 System configuration

4.6.1 Time setup

Click [System] \rightarrow [Time] to enter the time setting interface.



• Device date: To configure the device time. Mode: Manual modify and PC synchronization.

• NTP: The device synchronize the time with the network NTP server

4.6.2 Network Settings

Click [System] → [Network] to enter the network settings interface



4.6.3 P2P

Click System Configuration--> P2P, to access the P2P setup interface

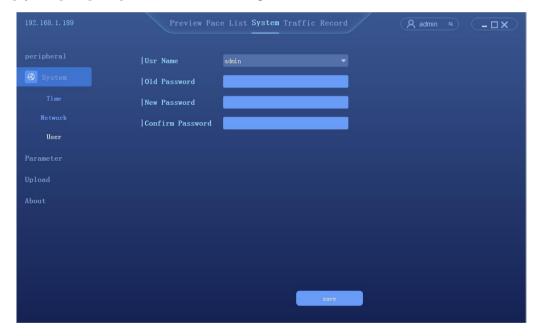
4.6.4 TF Card

Click System Configuration-->TF card, to access the TF card setup interface



4.6.5 User management

Click [System] \rightarrow [User] to enter the user management interface



4.7 Parameter Settings

4.7.1 Face detection

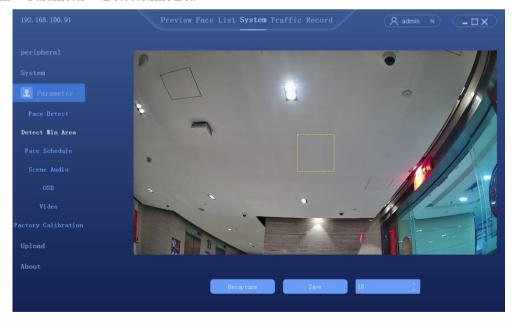
Click [System] \rightarrow [Parameter] \rightarrow [face detect] to enter the setting interface



- Enable temperature checking
- Normal Temperature degree: To setup a default temperature here. The alarm will be triggered once the temperature detected is higher than the default value.
- Temperature correcting: to compensate according to the real temperature

4.7.2 Minimum size of Detection object

Click System-->Parameter-->Detect Min Area



• The size of detection object is 1-82 adjustable, you can setup the minimum object size to detect

4.7.3 Face schedule

Click System \rightarrow Parameter \rightarrow Face Schedule



Click [add] to enter the scheduling time setting interface. There are 6 time periods in total



4.7.4 Scene Audio

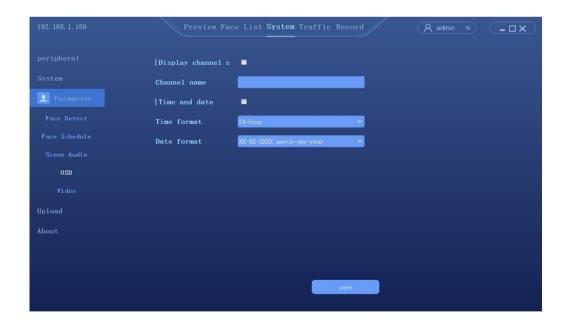
Click System → Parameter → Scene Audio



- Broadcast mode can be customized
- All voice reminder can be imported and record (Windows PC support TTS function)

4.7.5 OSD

Click [System] \rightarrow [Parameter] \rightarrow [OSD] to enter the setting interface



4.7.6 Video setup

Click [System] \rightarrow [Parameter] \rightarrow [Video] to enter the setting interface



4.7.8 Factory calibration

Click System configuration-->Parameter setup-->Factory calibration



4.8 Data upload

Click [System] → [Upload] to enter the FTP upload setting interface.



- ① Enable FTP upload
- 2 Setup the FTP server address
- 3 Setup the FTP port, 21 in default
- 4 Setup user name and password
- Set upload path
- 6 Click test to verify that the Settings are successful
- The Click [save] to complete the Settings

4.9 System information

4.9.1 System information

Click system configuration to access system information interface

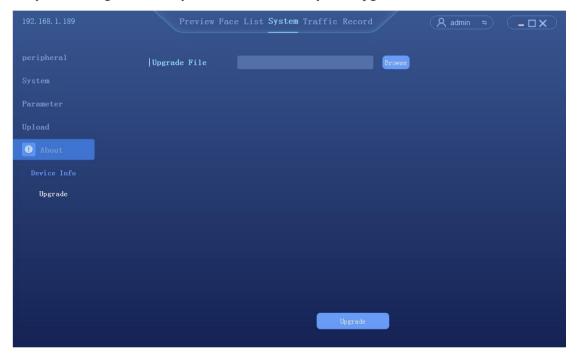


Device serial number: display camera product serial number

- Display resolution: the resolution of the camera screen
- Software version: displays the current software version of the camera
- Version description: description of the current software version
- Face algorithm version: face recognition algorithm version used by the camera
- Client version: the current client software version of the camera

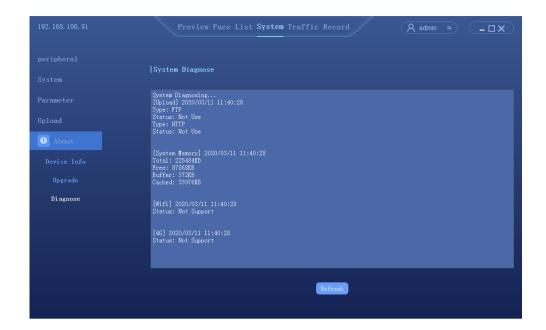
4.9.2 Firmware upgrade

Click system configuration → system information → system upgrade to enter the interface



4.9.3 System Diagnosis

Click System Configuration-->System Information-->System Diagnosis



4.10 Access records

Query the history of the catch, export the record as needed, export the record including Excel file and the catch photo.



- ◆ Set query time period: start time and end time
- ♦ Select search type:
 - ① No additional information query: query all traffic records in the corresponding time period.
 - ② According to the type of access: list management, pass, id card, authorized passage, stranger access.



3 According to the list query: white list, blacklist, visitor list.



4 According to other information query: input name or id number query.



⑤ According to the slice query: to compare the search chart.



• Retrieval, the query result is shown as follows:

