Automated AI Temperature Sensing System (AATSS)

Model V2 USER MANUAL

Please Note:

This Manual is to ensure that the user can use the product correctly, to avoid danger or property loss in operation. So please read it carefully before using this product and keep it for future reference. Without written permission, no entity or individual is allowed to extract, copy, translate or modify all or part of this manual in any way. Unless otherwise agreed, the company does not provide any express or implied statement or guarantee for this manual

Attention

① Do not splash liquid or metal on the outer screen to avoid scratches or damages
② Use specialized detergent to clean the equipment to avoid watermarks
③ Please ensure that the equipment is well grounded to avoid interference and damage to video and audio signals

1. About AATSS model V2

The V2 is designed for easy integration into your local area network and existing access control systems. Combining high-precision infrared temperature detection with face recognition technology and a full suite of software functions, the AATSS V2 is the finalized all-in-one solution for fully automated quick contactless temperature screening.

2. Quick installation

2.1. Table Stand/Display Pedestal installation

The installation method for a Table Stand and Display Pedestal are very similar.

2.1.1. Open the stand base, use the screwdriver to remove the backside cover.

2.1.2. Slip the V2 interface cables through the center hole of the Stand Base

2.1.3. Screw in the V2 mount into the base stand and secure from the bottom using the helix nut provided. The mount is meant to be screwed in, not forced in directly.

2.1.4. Connect the USB, Ethernet, and Power Cable to the Stand Base connectors

2.1.5. Pass all the data interface cables through the hole in the stand backside cover.

2.1.6. Secure the backside cover using screws

2.1.7. Complete installation adjust the screen to the side with the blue light bar.

2.2. Power adapter connection and ethernet connection

Connect the power supply to the base of the stand. The system will start automatically after powering on, the boot time is about 30 - 40 seconds.

If you need to manage the V2 through a network, connect the base to your router through an ethernet cable. For how to set up the network, please refer to the following Software section.

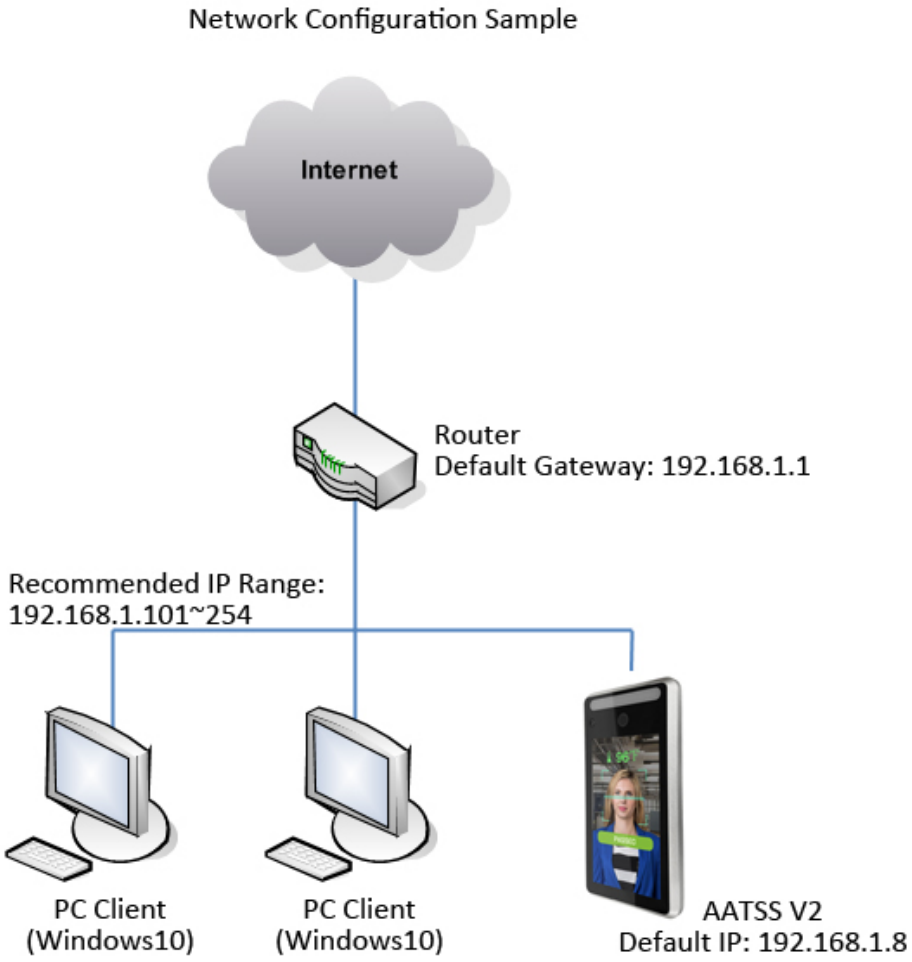
If you would like to connect the device to an existing access control system, please refer to the Access Control Integration section.

3. Software

Note: We recommend using Windows 10 when managing the AATSS V2.

3.1. Network Preparation

After connecting the V2 and the router using an ethernet cable, you must make sure the V2 is within the same intranet as your computer. See Section 3.2.



3.2. Network Configuration (Please read carefully)

Please refer to our video demonstration for setting up the system, https://www.richtech-ai.com/tutorial-videos

Instruction below covered by set up tutorial video:

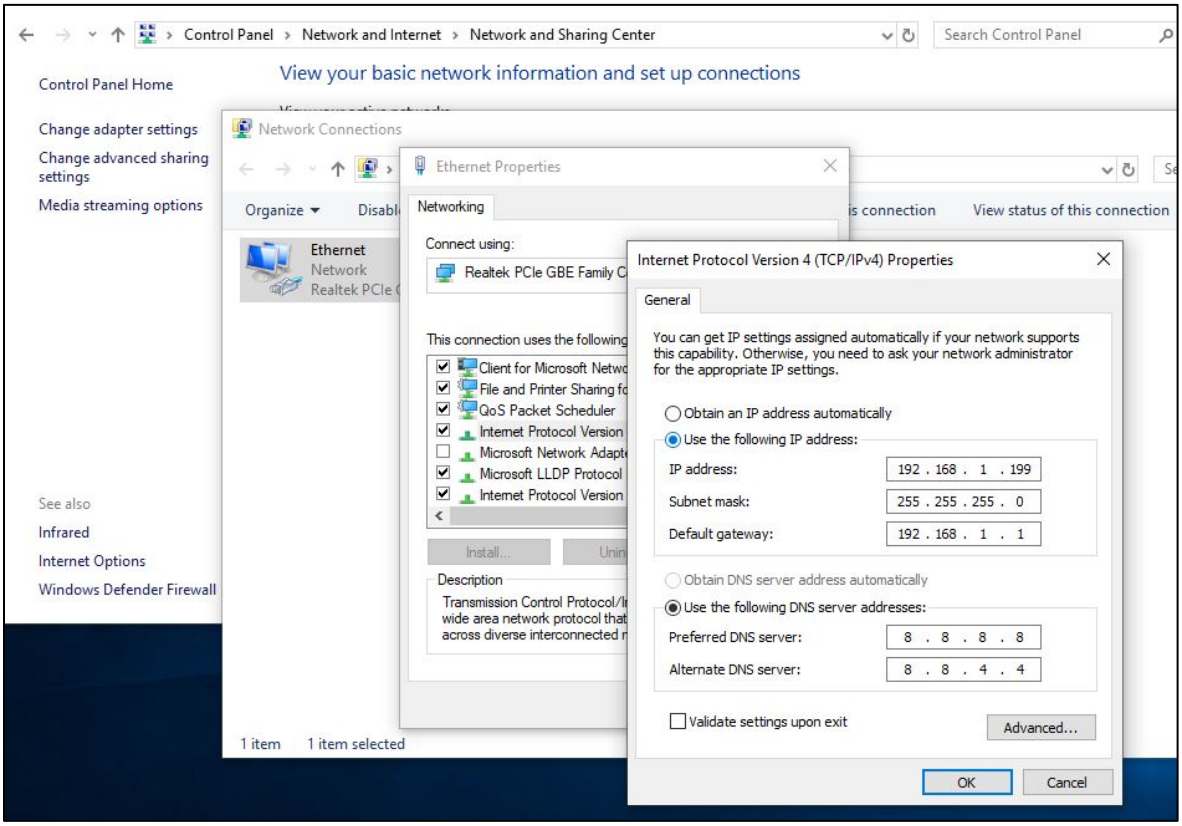
First, please make sure you are using a computer connected to the LAN network where the AATSS V2 will be set up.

Next, we will need to obtain your computer's IP address:

Open Start, and type in "cmd"

Once the command prompt opens, type in "ipconfig" and hit Enter. This will bring up the IP address currently assigned to your computer. Please note down this IPv4 Address (ex: "192.168.0.119"), we will need it later for deploying the AATSS V2 onto your local area network.

Go to **Network and Sharing Center** -> **Change Adapter Settings** (on the left) -> Right click **Ethernet** -> Click **Properties** -> Select "**Internet Protocol Version 4 (TCP/IPv4)**" -> Click **Properties**



The default IP address of the V2 is **192.168.1.8.**

You will need to change your computer's static IP address to be on the same network segment as V2. You can change your IP address to 192.168.1.XXX (XXX here could be from 2~254, but not 8 to avoid conflict with V2. For example, 192.168.1.200 will work).

Subnet mask: 255.255.255.0

Default gateway: Ask your network administrator for gateway IP. If you don't know the gateway IP address, leave it blank.

After that is complete, open Internet Explorer 10 or higher and put 192.168.1.8 in the URL and hit enter. This will connect to the AATSS management portal. You can now access the settings of the AATSS V2.

Setting the IP Address for the V2
(If you have a network administrator, please have the network administer set this up for you. Otherwise, follow the steps below.)

Once you have access to the settings for the AATSS V2, you should change the IP address to match your local ethernet so that you will not have to go through this process in the future.

First open your Command Prompt by typing "cmd" from the start menu.

In the command prompt window, type in:

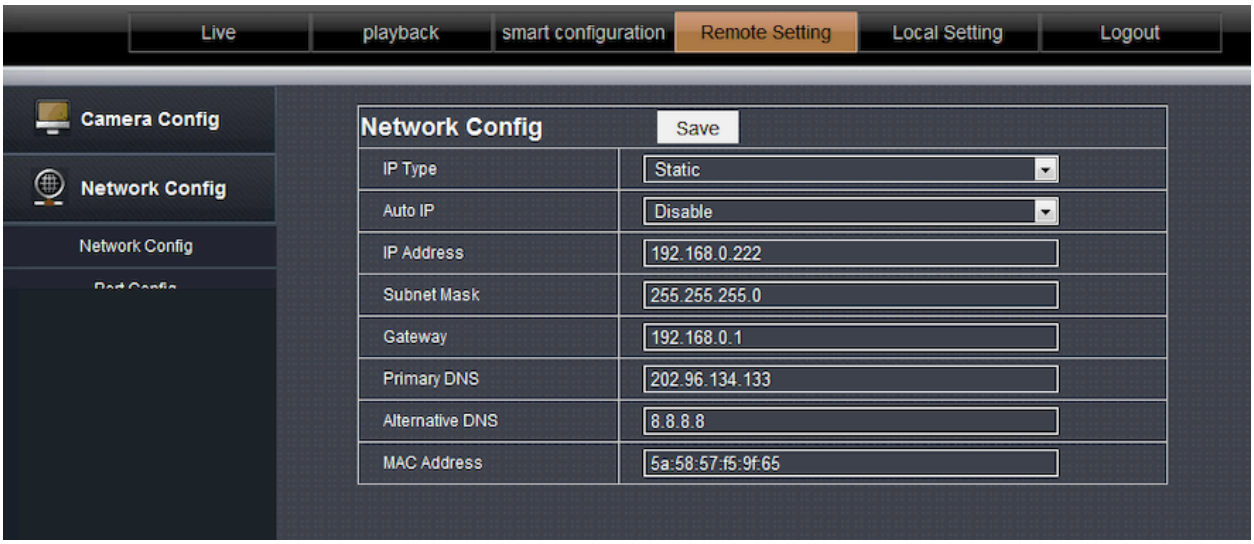
for /L %i IN (1,1,254) DO ping -w 2 -n 1 192.168.0.%i

Then wait for the system to finish running.

After it is done, type in:

arp -a

This will display a list of IP Addresses currently used by your network. Select an IP Address that is NOT in that list and enter that in the Network Config settings of the AATSS.

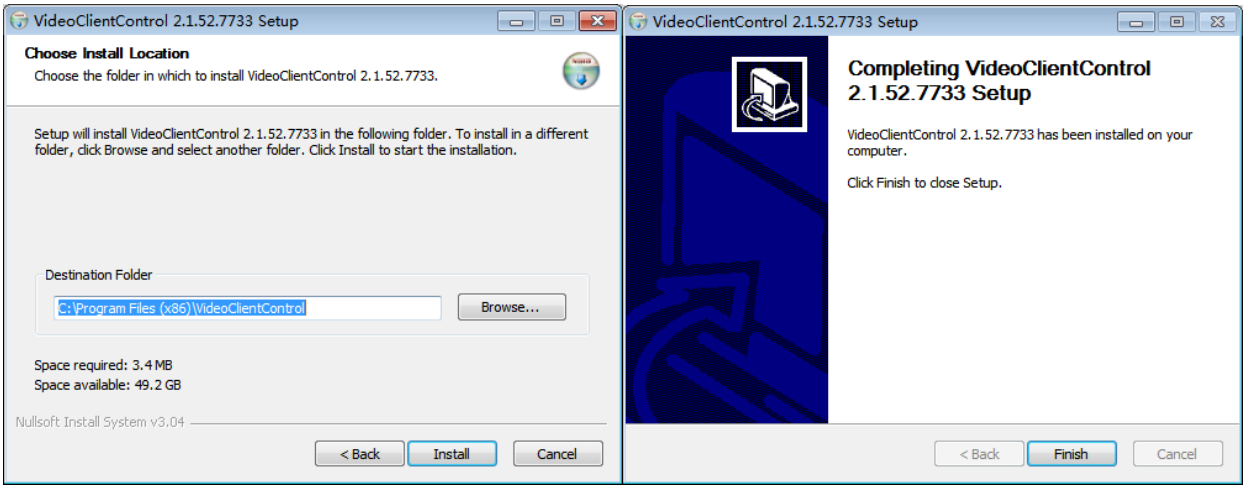


Other details can be filled out using the information returned by the 'ipconfig' command from the Command Prompt.

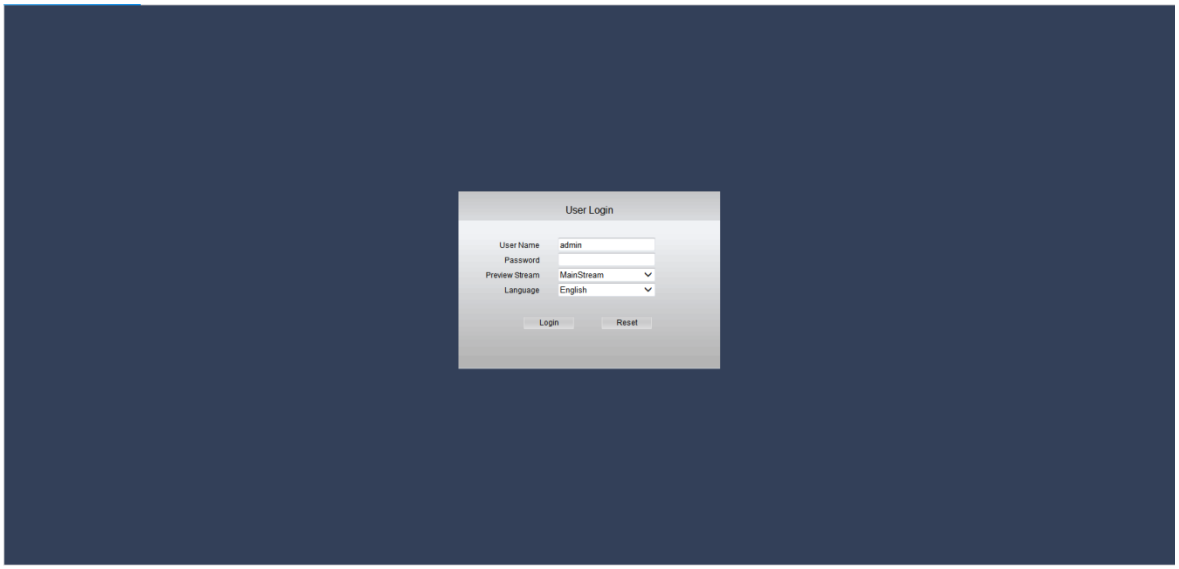
After all setup is complete, reset your computer's IP address settings by selecting "Obtain an IP address automatically" in the Internet Protocol Version 4 (TCP/IPv4) Properties. (Go to **Network and Sharing Center** -> **Change Adapter Settings** (on the left) -> Right click **Ethernet** -> Click **Properties** -> Select "**Internet Protocol Version 4 (TCP/IPv4)**" -> Click **Properties**)

3.3. Plugin Installation

You will be guided to install a plug-in. Click the download link to download it and install the plug-in. Allow all access when prompted.



After installing the plug-in, visit 192.168.1.8 again to open the login page.

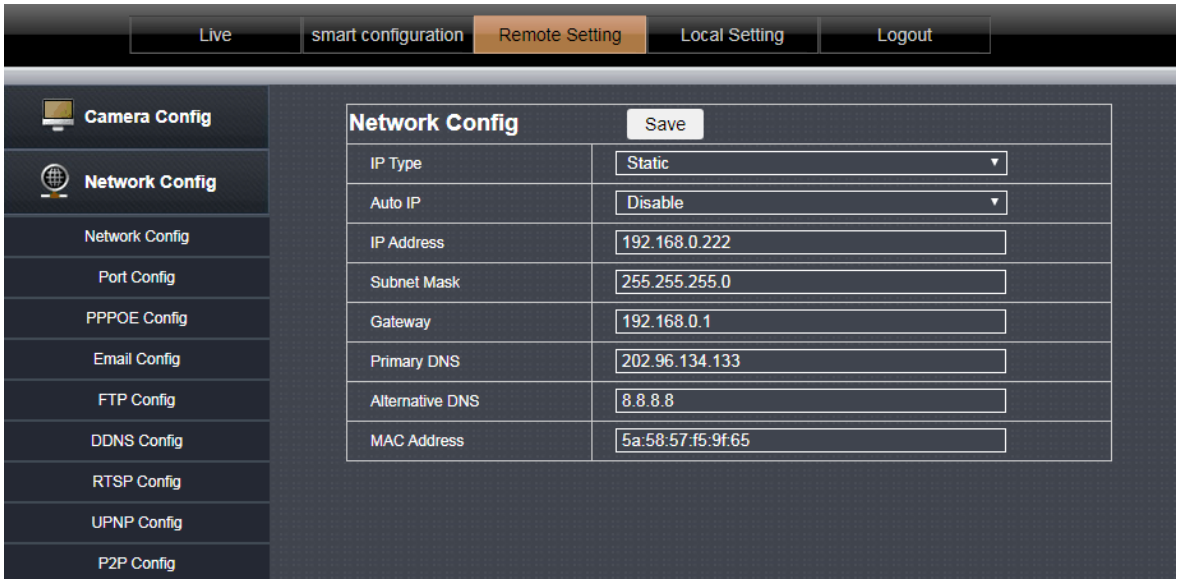


Initial username is **admin**, and the password is **blank.**
After logging in, change your login information at:
Remote Settings -> System Configuration -> User Management.

3.4. Network Configuration

The default IP address of the V2 is 192.168.1.8. If you want to change the IP address to a different one, you can so in Remote Settings -> Network Configuration.

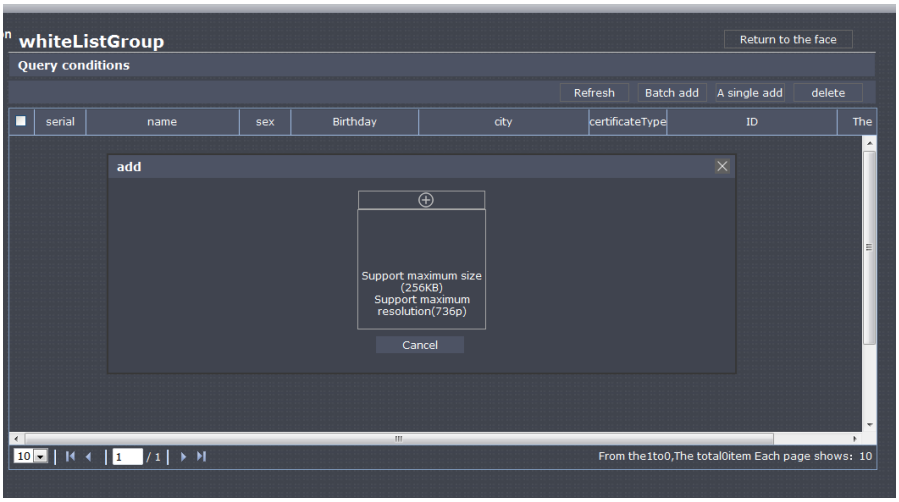
Please ask your network administrator about which IP address is allowed on your network. Please remember to keep V2's IP address in the same segment as your computer terminal.



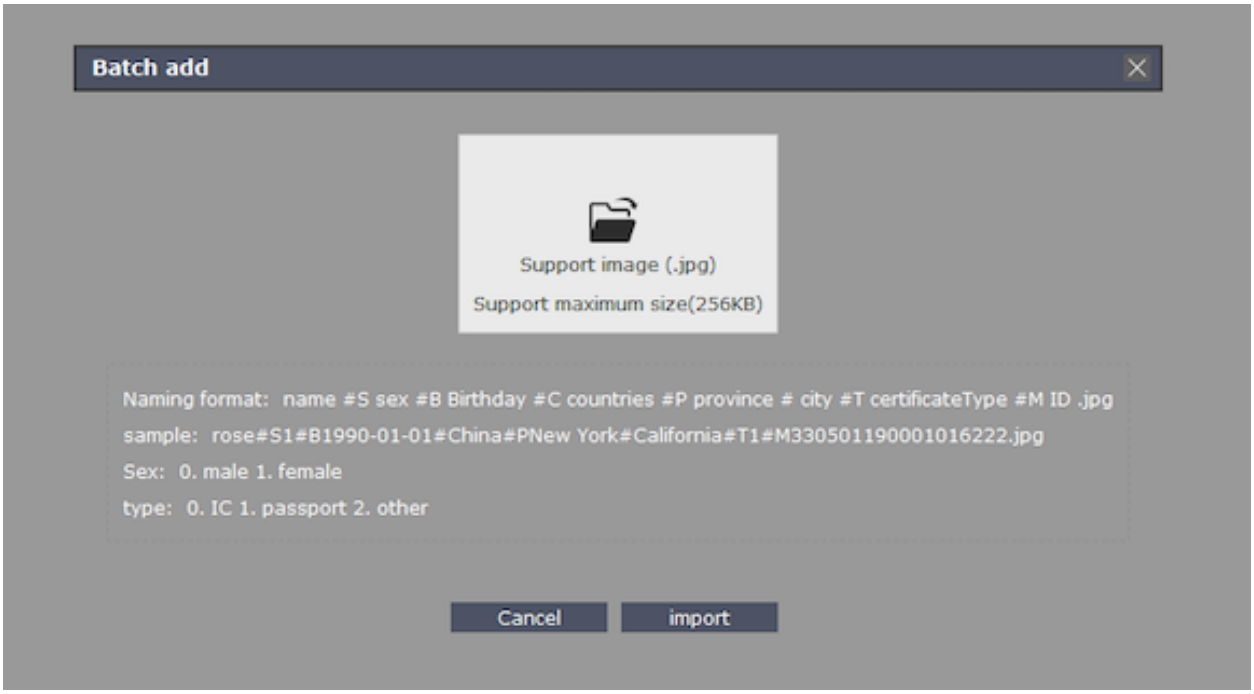
You can always find the V2's IP address on left corner of its screen.

3.5. Face Recognition Library Setup

To input all your employees into the system, you will need to collect each employee's photo (each file should be less than 256k). You can add photos one by one or in a batch. Please enter all employee photos and names into the Whitelist group. If you want to block some from accessing your facility, please input the photo into the Blacklist group.



Batch uploading – You can batch upload images from a folder on your computer and have the system automatically register the required information. You must follow the naming format in order for the data to be saved correctly.



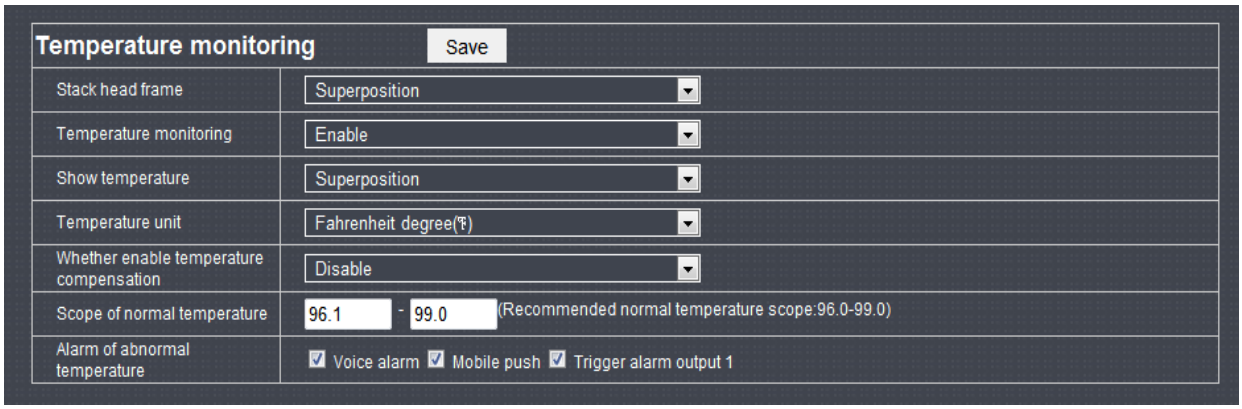
3.6. Record Query

You can check all the face detection records and temperature records by going to:
Smart Configuration -> Records menu

You can search data by time, face library, employee name, etc.

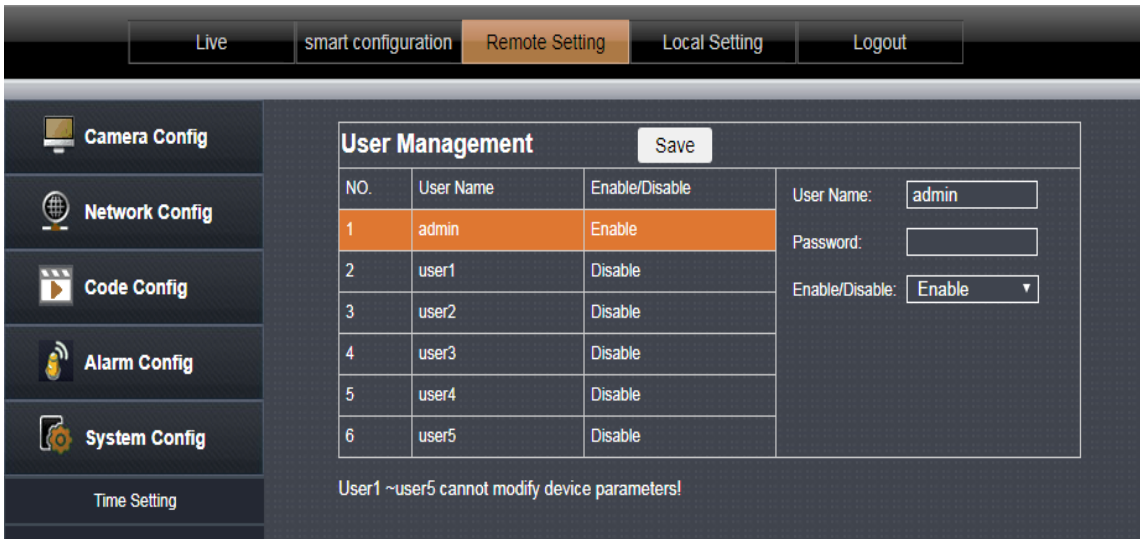
3.7. Temperature Monitoring

The default normal temperature value is set to 96.1~99°F. It's not recommended to change this default value. Tick Enable from Temperature Monitoring option to active high temperature alarm.


Temperature monitoring
Save
Stack head frame
Superposition
Temperature monitoring
Enable
Show temperature
Superposition
Temperature unit
Fahrenheit degree(℉)
Whether enable temperature compensation
Disable
Scope of normal temperature
96.1
99.0
(Recommended normal temperature scope:96.0-99.0)
Alarm of abnormal temperature
Voice alarm
Mobile push
Trigger alarm output 1

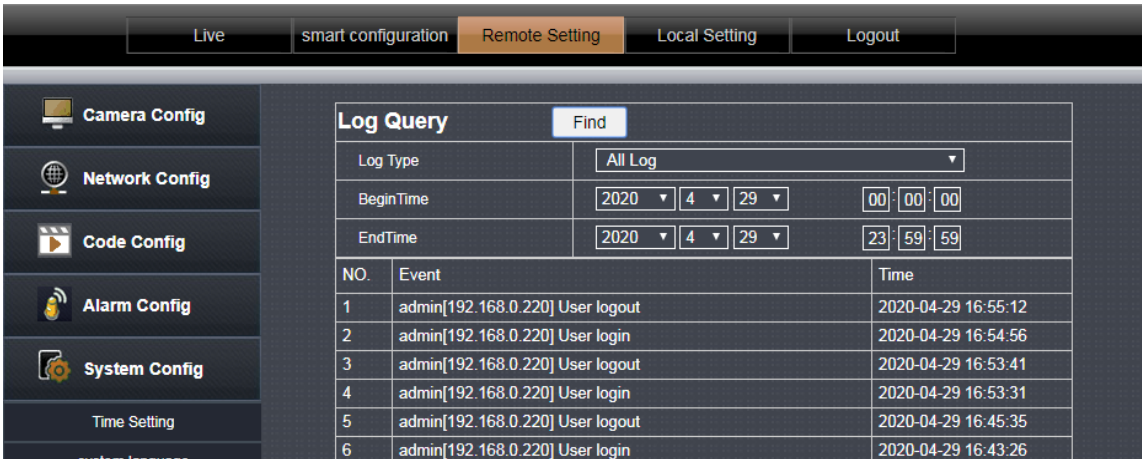
3.8. User Management

V2 allows one administrator account and five more normal user accounts. Only the administrator account can modify device parameters, all the other accounts can only view the data.



To check each account's login history, please go to:

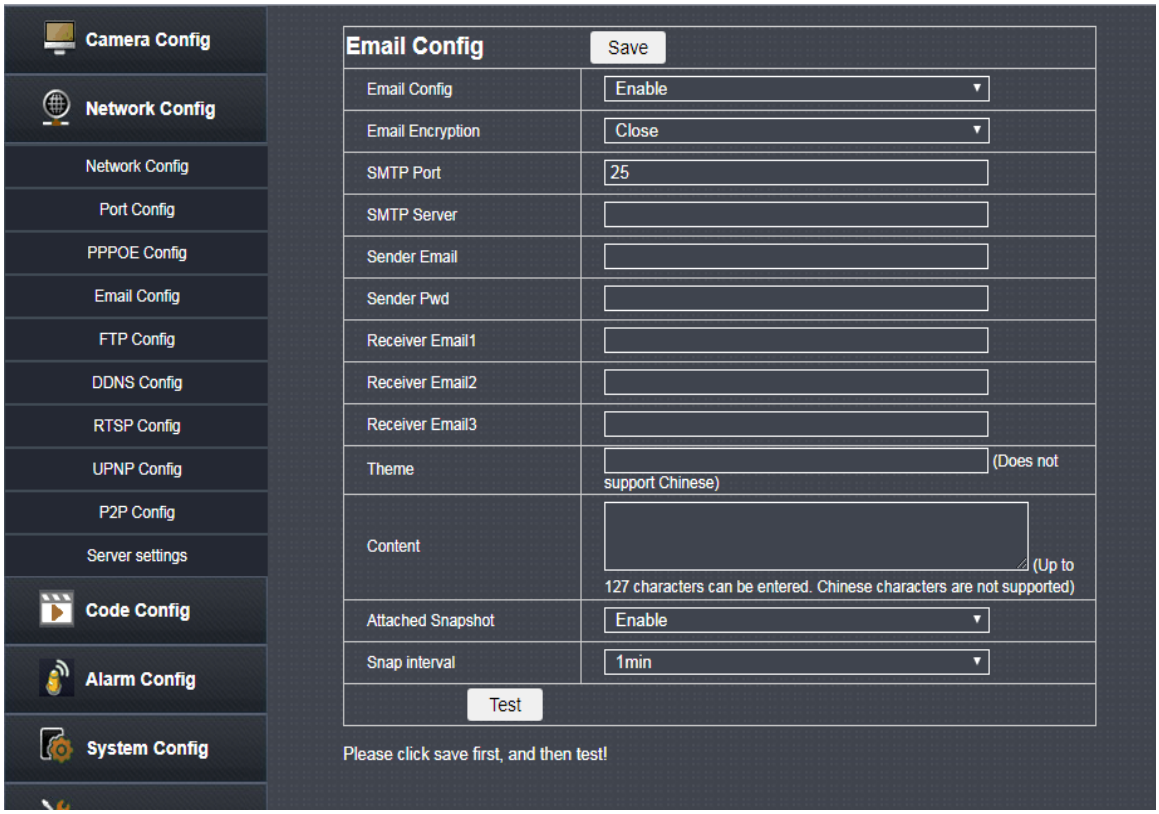
Remote Settings->System Configuration->Log Query



3.9. Email Notification Config.

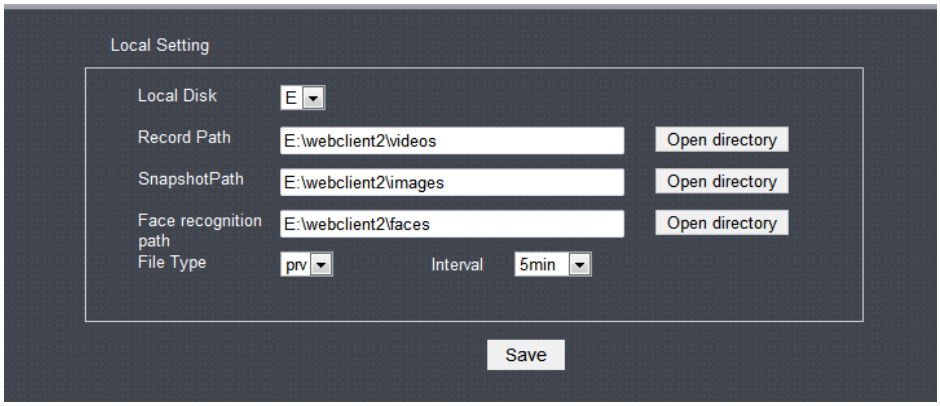
To setup email notification, you can input your email account information from:
Remote Settings -> Network Configuration -> Email Config

Please make sure the V2 can access internet through your local network.



3.10. Local Settings

To keep snapshots on local computer, please choose the disk and directory where you want to store pictures.



3.11. Firmware Updates

To update V2 with latest firmware, please get the firmware package from your reseller or official website. Install it from:

Remote Settings -> System Maintenance -> Firmware update.

System will restart automatically when the update completes.

4. Integration

4.1. Interfaces

- P1: USB Host
  - Peripheral connection
  - Use: connect external devices like a USB storage stick

- P2: DC
  - Power adapter: 12V

- P3: Relay Interface
  - Provides switch signal
  - Use: electronic door locks etc.

- P4: Reset button
  - Press for 5 seconds to restore default factory configuration

- P5: Alarm
  - -GND
  - +ALMO
  - Alarm output 1: Output 3.3V when its inactive; output 0V when it's active

- P6: Ethernet Port
  - Supports 100M network

- P7: Wiegand interface

- Supports Weigand protocol
- -WGI0
- +WGI1

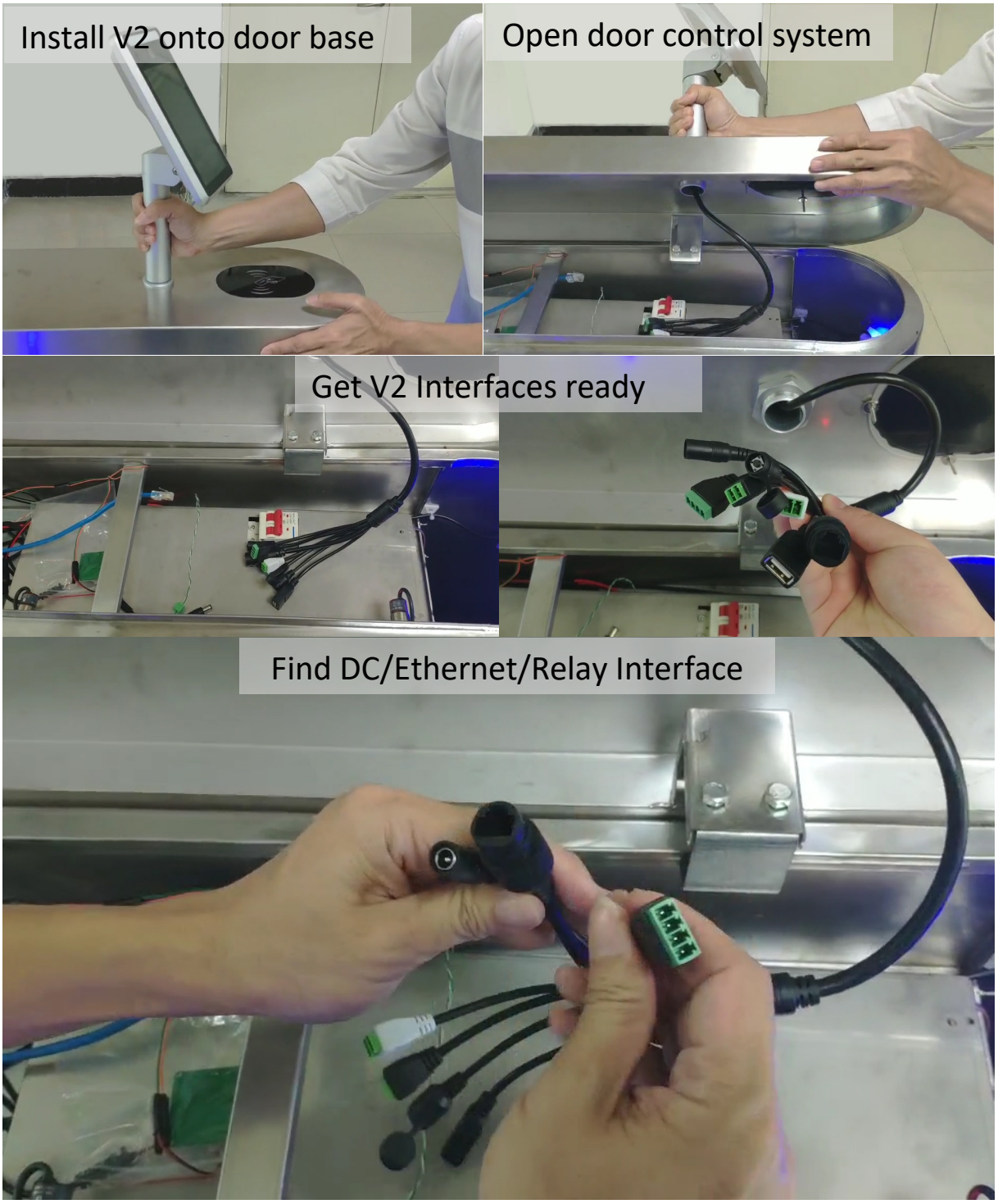
WG DEFAULTS
①② Default status: Open.
③④ Default status: Close.

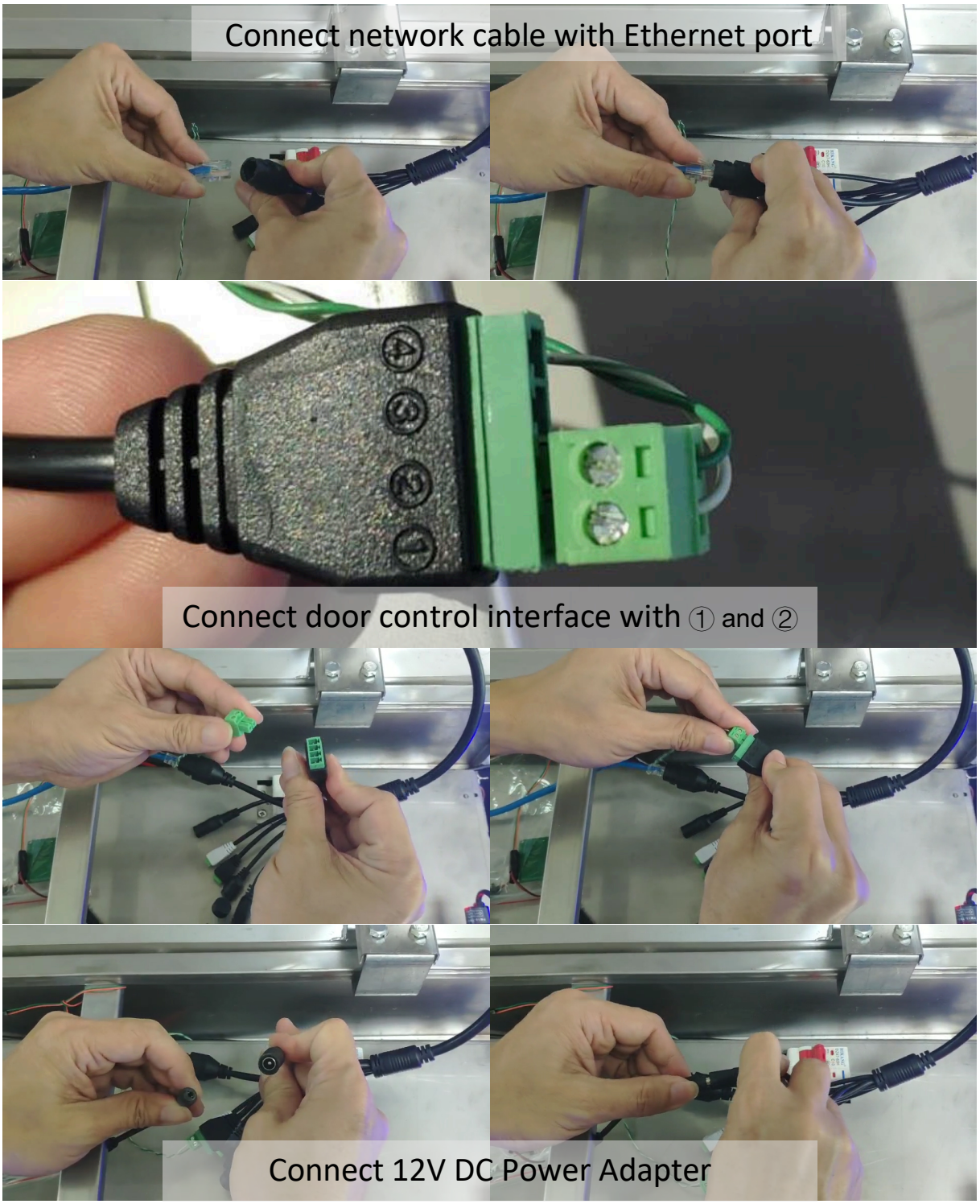
4.2. Sample integration

Most electronic door system can be controlled through the relay interface. With our embedded program, you only need to connect the V2 with your existing door control system through relay interface ① and ②.

Here is an example of the hardware integration and software configuration.

4.2.1. Hardware integration




Connect network cable with Ethernet port
Connect door control interface with ① and ②
Connect 12V DC Power Adapter

4.2.2. Software configuration

To setup electronic door's open rules, please open-Door Access from the Smart Configuration menu.

There are three options:

- Face recognition: Detect if the visitor's face matches whitelist group & ignore temperature
- Temperature: Detect if visitor's temperature is normal only & ignore face recognition
- Temperature & Face: Only allow people from whitelist with normal temperature to enter