



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.

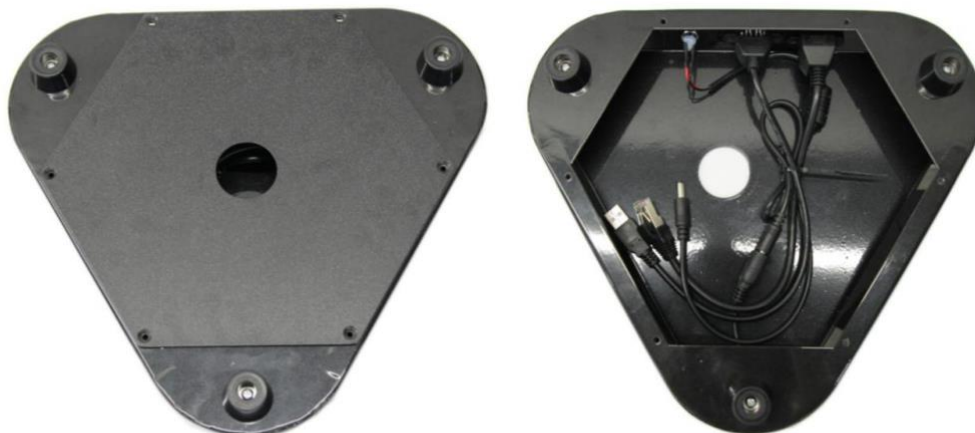
2. Quick installation

2.1. Stand installation

The AATSS V2 comes with a Table Stand, if you ordered a Display Pedestal, the installation method is very similar.



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



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



2.1.3. Affix the V2 to the Stand Base and secure from the bottom using the helix nut provided



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.

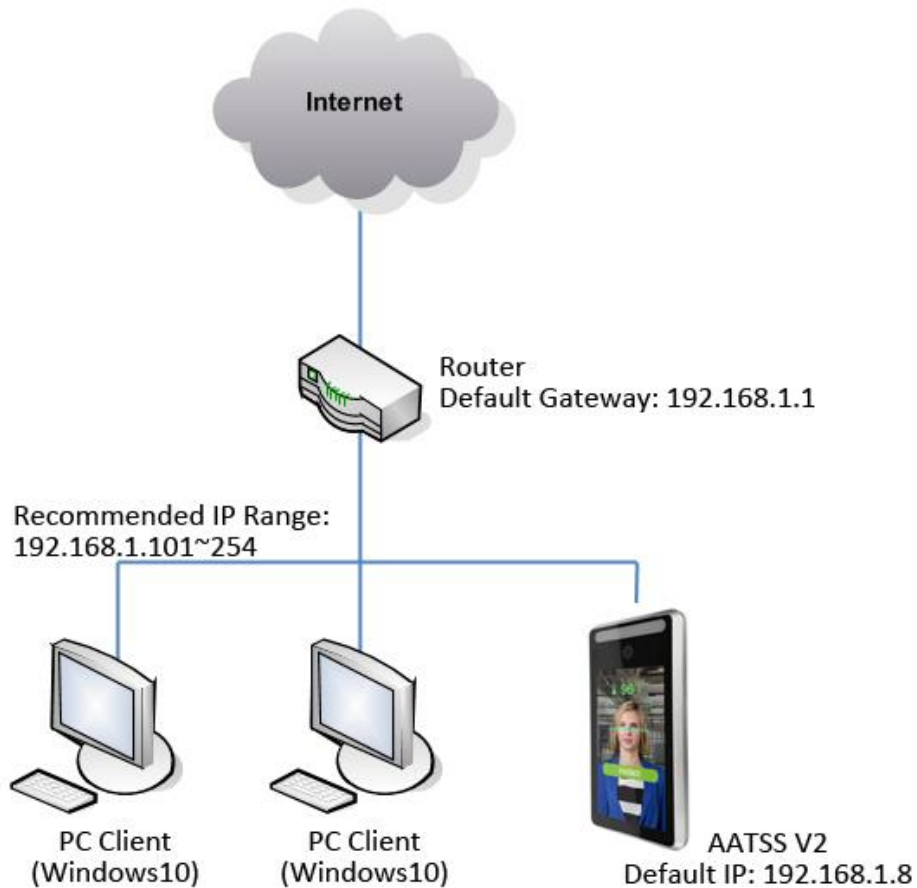
3. Software

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

3.1. Network Preparation

After connect 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.

Network Configuration Sample



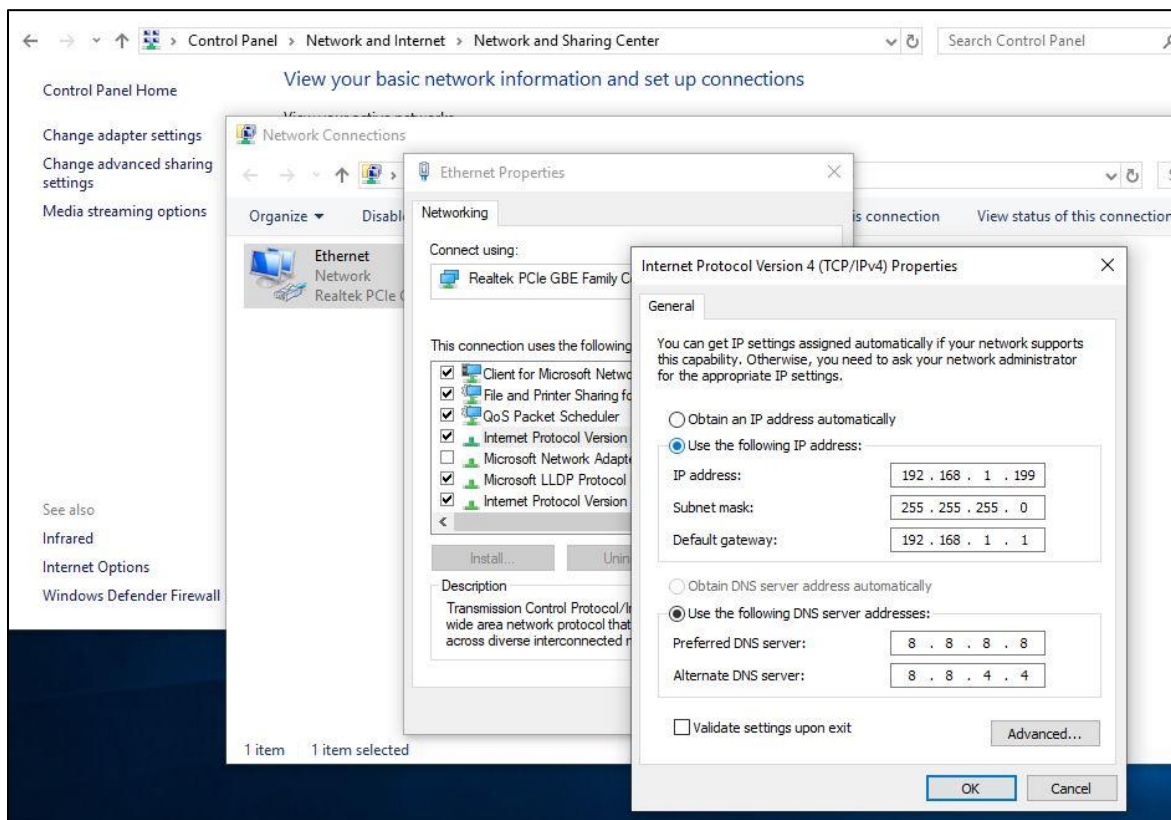
3.2. Network Configuration (Please read carefully)

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. So 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.

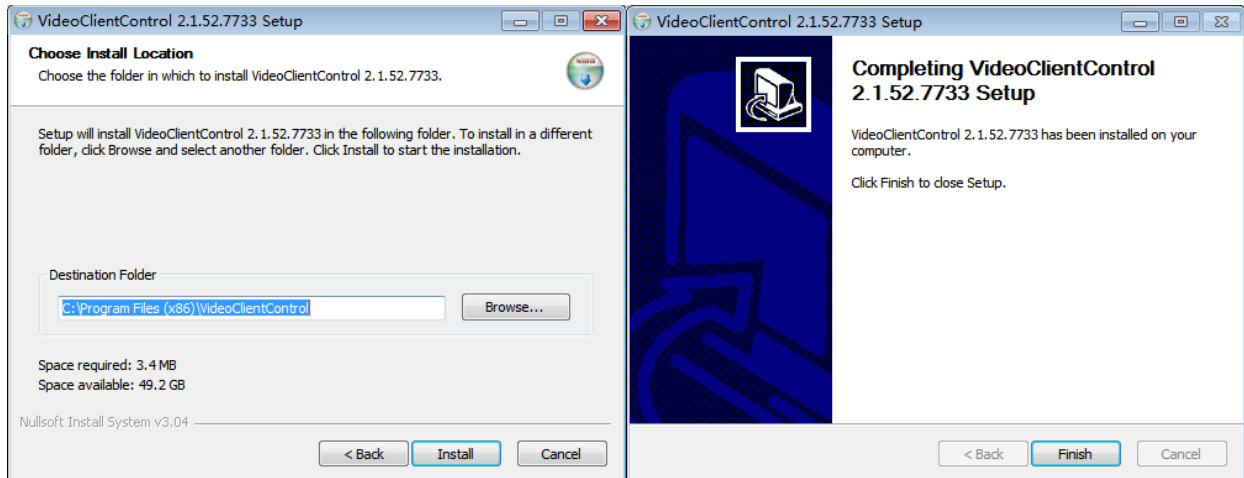


If you have trouble, you can refer to a video demonstration for setting up the network on our website, www.richtech-ai.com

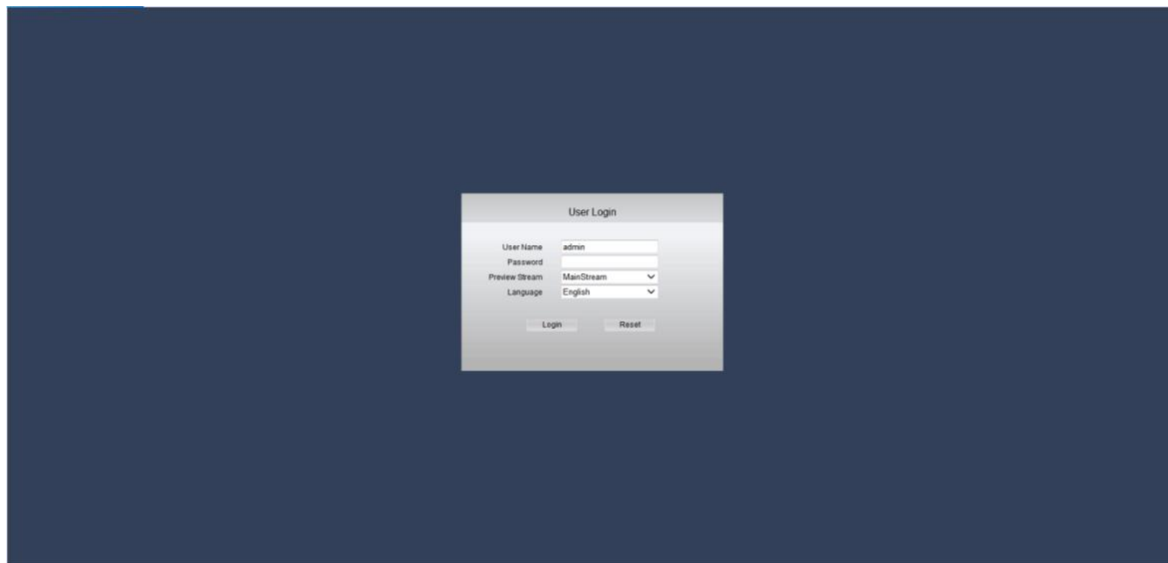
After that is complete, open Internet Explorer 10 or higher and put 192.168.1.8 in the URL and hit enter. This will connect to the V2 management portal.

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 do 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.

The screenshot shows the 'Remote Setting' tab with the 'Network Config' sub-tab selected. The 'Network Config' section contains a 'Save' button and a table of configuration parameters. The left sidebar lists various configuration options, with 'Network Config' being the active one.

Network Config	
IP Type	Static
Auto IP	Disable
IP Address	192.168.0.222
Subnet Mask	255.255.255.0
Gateway	192.168.0.1
Primary DNS	202.96.134.133
Alternative DNS	8.8.8.8
MAC Address	5a:58:57:f5:9f:65

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.

The screenshot shows the 'whiteListGroup' interface. It features a table with columns for 'serial', 'name', 'sex', 'Birthday', 'city', 'certificateType', 'ID', and 'The'. Above the table are buttons for 'Refresh', 'Batch add', 'A single add', and 'delete'. A modal window titled 'add' is open, displaying a camera icon and the text: 'Support maximum size (256KB)', 'Support maximum resolution(736p)', and a 'Cancel' button. The bottom of the interface shows a pagination bar with 'From the 1 to 0, The total 0 item Each page shows: 10'.

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.

The screenshot shows a web interface titled "Identify record". Under the "Query conditions" section, there are four input fields: "The face of a library" (a dropdown menu showing "All libraries face"), "name" (a text input field), "Start Time" (a date and time picker), and "End Time" (a date and time picker). Below these, there are two more fields: "Rule" (a dropdown menu showing "All the rules") and "Identify the results" (a dropdown menu showing "Please Select"). A "Query" button is located to the right of the "Identify the results" field. At the bottom right of the interface, there are two buttons: "Derived form" and "Refresh".

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.

The screenshot shows a web interface titled "Temperature monitoring" with a "Save" button. The interface contains several configuration options:

Stack head frame	Superposition
Temperature monitoring	Enable
Show temperature	Superposition
Temperature unit	Fahrenheit degree(°F)
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	<input checked="" type="checkbox"/> Voice alarm <input checked="" type="checkbox"/> Mobile push <input checked="" type="checkbox"/> 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.

NO.	User Name	Enable/Disable
1	admin	Enable
2	user1	Disable
3	user2	Disable
4	user3	Disable
5	user4	Disable
6	user5	Disable

Save

User Name:

Password:

Enable/Disable:

User1 ~user5 cannot modify device parameters!

To check each account's login history, please go to:
Remote Settings->System Configuration->Log Query

Log Type	BeginTime	EndTime
All Log	2020 4 29 00:00:00	2020 4 29 23:59:59

NO.	Event	Time
1	admin[192.168.0.220] User logout	2020-04-29 16:55:12
2	admin[192.168.0.220] User login	2020-04-29 16:54:56
3	admin[192.168.0.220] User logout	2020-04-29 16:53:41
4	admin[192.168.0.220] User login	2020-04-29 16:53:31
5	admin[192.168.0.220] User logout	2020-04-29 16:45:35
6	admin[192.168.0.220] User login	2020-04-29 16:43:26

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.

The screenshot shows the 'Email Config' window. On the left is a sidebar with icons and labels for 'Camera Config', 'Network Config', 'Code Config', 'Alarm Config', and 'System Config'. The 'Network Config' section is expanded, showing sub-items like 'Network Config', 'Port Config', 'PPPOE Config', 'Email Config', 'FTP Config', 'DDNS Config', 'RTSP Config', 'UPNP Config', 'P2P Config', and 'Server settings'. The 'Email Config' sub-item is selected. The main area contains a 'Save' button at the top right. Below it is a table with the following fields: 'Email Config' (dropdown menu set to 'Enable'), 'Email Encryption' (dropdown menu set to 'Close'), 'SMTP Port' (text input set to '25'), 'SMTP Server' (text input), 'Sender Email' (text input), 'Sender Pwd' (text input), 'Receiver Email1' (text input), 'Receiver Email2' (text input), 'Receiver Email3' (text input), 'Theme' (text input with a note '(Does not support Chinese)'), 'Content' (text area with a note '(Up to 127 characters can be entered. Chinese characters are not supported)'), 'Attached Snapshot' (dropdown menu set to 'Enable'), and 'Snap interval' (dropdown menu set to '1min'). At the bottom of the table is a 'Test' button. Below the table, a message reads 'Please click save first, and then test!'.

3.10. Local Settings

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

The screenshot shows the 'Local Setting' window. It contains a 'Local Disk' dropdown menu set to 'E:'. Below it are three rows of text inputs for 'Record Path', 'SnapshotPath', and 'Face recognition path', all set to 'E:\webclient2\videos', 'E:\webclient2\images', and 'E:\webclient2\faces' respectively. Each row has an 'Open directory' button to its right. Below these is a 'File Type' dropdown menu set to 'prv' and an 'Interval' dropdown menu set to '5min'. At the bottom is a 'Save' button.

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: Wiegand interface
 - Supports Weigand protocol
 - -WGI0
 - +WGI1
- 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: Relay Interface
 - Provides switch signal
 - Use: electronic door locks etc.

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

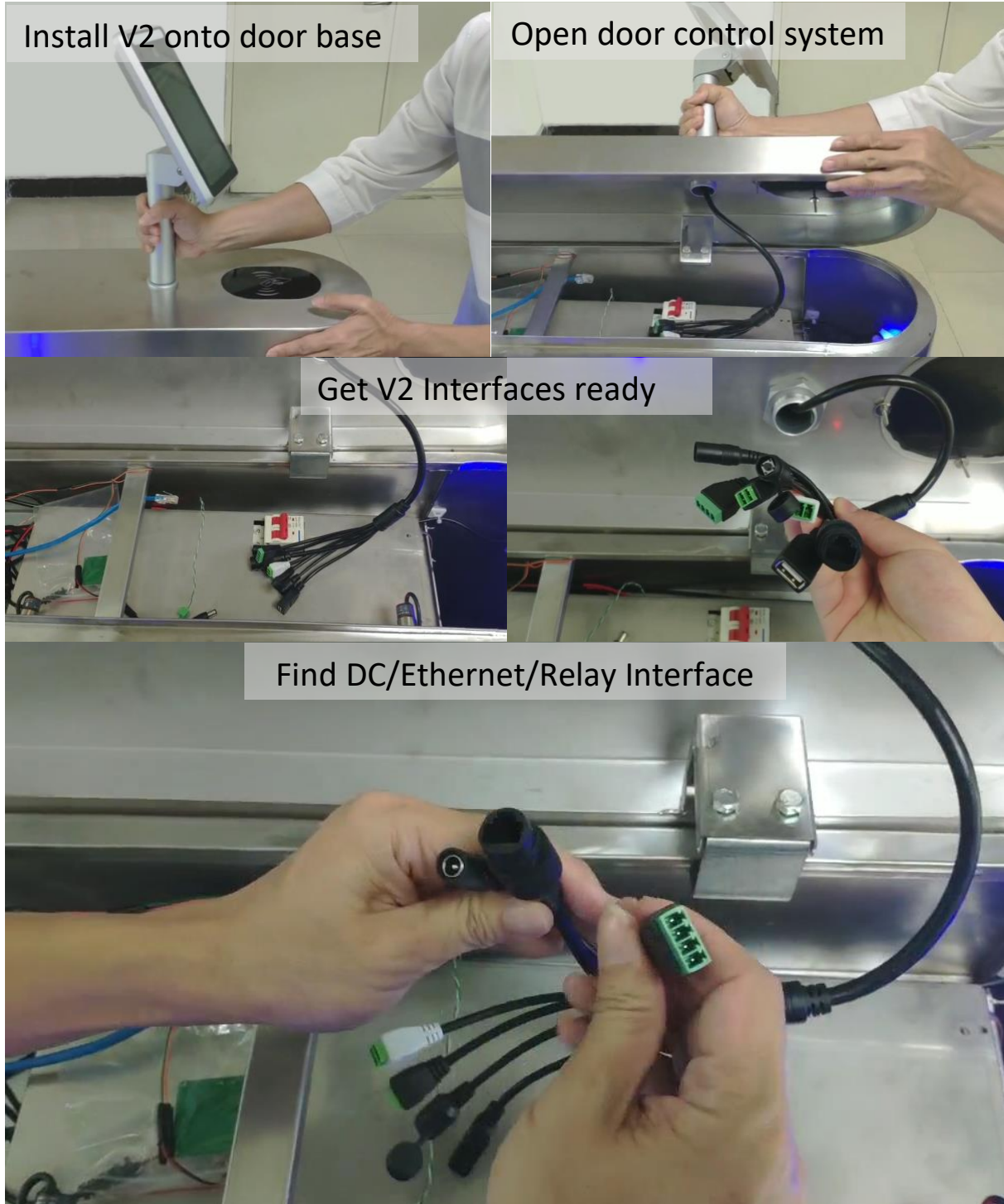
4.2. Sample integration

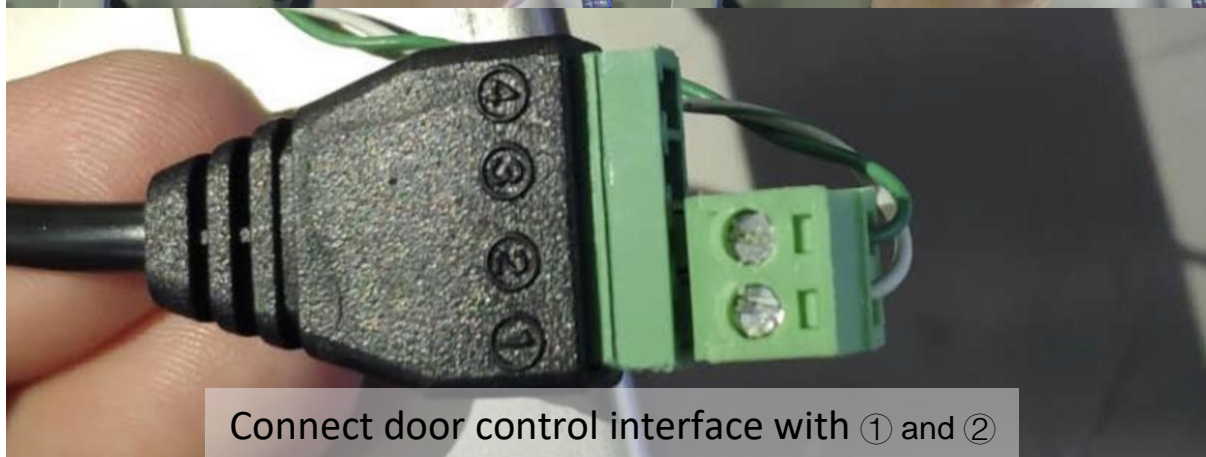
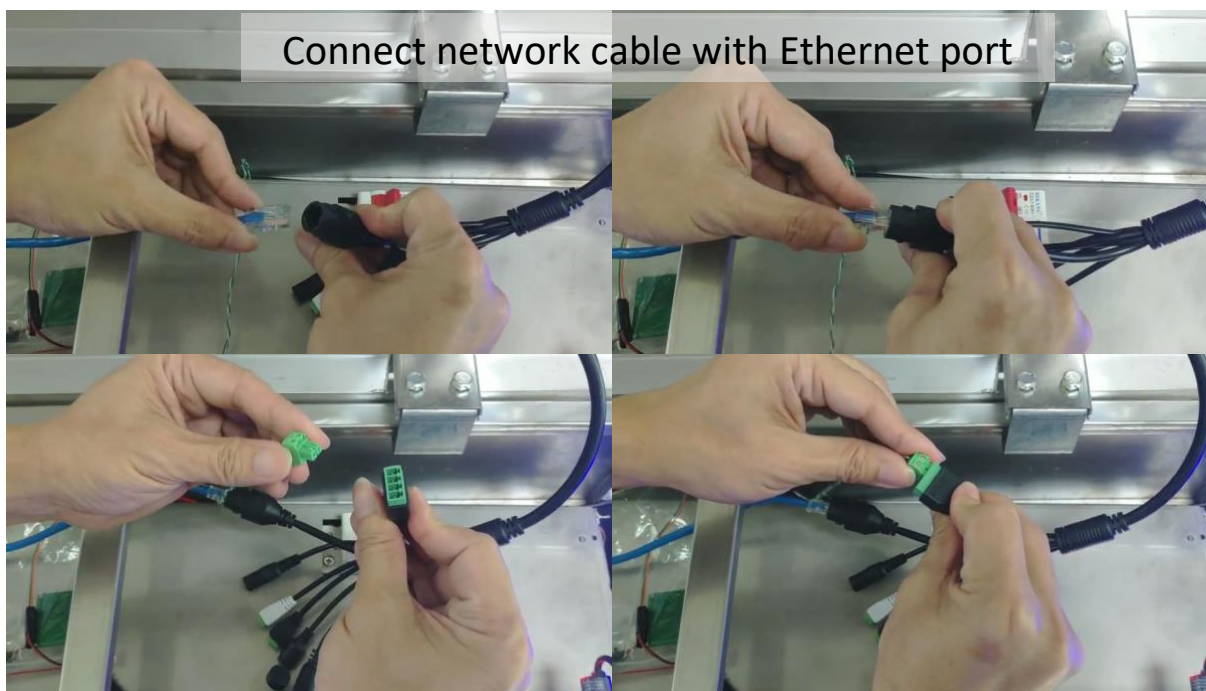
Most electronic door system can be controlled through the relay interface. With our embedded program, you only need to connect the V2 with your existing door control system through relay interface ① and ②.

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



4.2.1. Hardware integration







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

