DS-K3G530(L)X Series Tripod Turnstile

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Safety Instruction

These instructions are intended to ensure that user can use the product correctly to avoid danger or property loss.

The precaution measure is divided into Dangers and Cautions:

Dangers: Neglecting any of the warnings may cause serious injury or death.

Cautions: Neglecting any of the cautions may cause injury or equipment damage.

⚠	⚠
Dangers: Follow these safeguards to prevent serious injury or death.	**Cautions:** Follow these precautions to prevent potential injury or material damage.

⚠ Danger:

- In the use of the product, you must be in strict compliance with the electrical safety regulations of the nation and region.
- The equipment must be connected to an earthed mains socket-outlet.
- Shock hazard! Disconnect all power sources before maintenance.
- Do not touch the bare metal contacts of the inlets after the circuit breaker is turned off. Electricity still exists.
- ϟ indicates hazardous live and the external wiring connected to the terminals requires installation by an instructed person.
- Keep body parts away from fan blades. Disconnect the power source during servicing.
- Keep body parts away from motors. Disconnect the power source during servicing.
- To prevent possible hearing damage, do not listen at high volume levels for long periods.
- All the electronic operation should be strictly compliance with the electrical safety regulations, fire prevention regulations and other related regulations in your local region.
- Do not connect several devices to one power adapter as adapter overload may cause over-heat or fire hazard.
- Please make sure that the power has been disconnected before you wire, install or dismantle the device.
  If the top caps should be open and the device should be powered on for maintenance, make sure:
  1. Power off the fan to prevent the operator from getting injured accidentally.
  2. Do not touch bare high-voltage components.
  3. Make sure the switch's wiring sequence is correct after maintenance.
- Please make sure that the power has been disconnected before you wire, install or dismantle the device.
- When the product is installed on wall or ceiling, the device shall be firmly fixed.
- If smoke, odors or noise rise from the device, turn off the power at once and unplug the power cable, and then please contact the service center.

- Do not ingest battery, Chemical Burn Hazard.
  This product contains a coin/button cell battery. If the coin/button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.
  Keep new and used batteries away from children. If the battery compartment does not close securely, stop using the product and keep it away from children. If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.
- If the product does not work properly, please contact your dealer or the nearest service center. Never attempt to disassemble the device yourself. (We shall not assume any responsibility for problems caused by unauthorized repair or maintenance.)
- Operation of this equipment in a residential environment could cause radio interference.
- The device do not support the PoE network switch. Connecting with the PoE network switch may damage the control board.

⚠ Cautions:

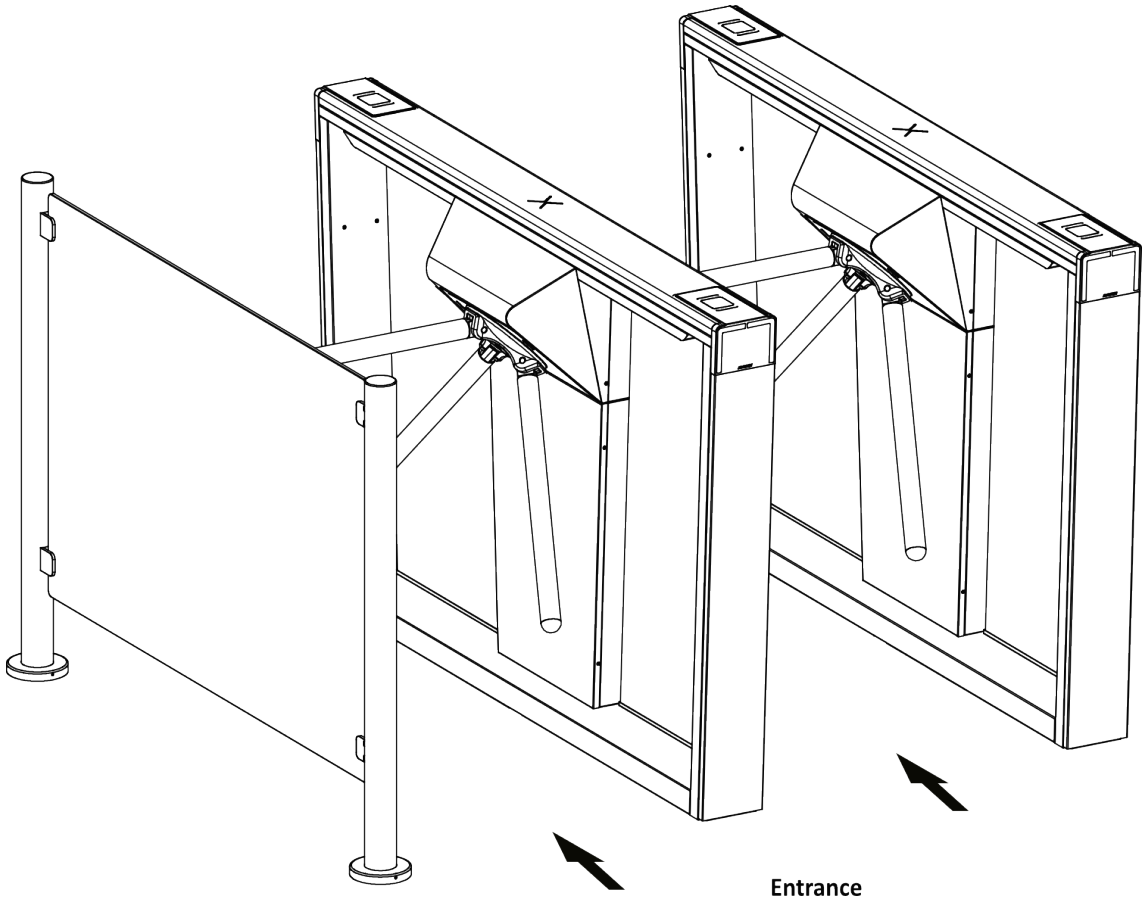
- The equipment shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the equipment.
- Ensure correct wiring of the terminals for connection to an AC mains supply.
- The equipment has been designed, when required, modified for connection to an IT power distribution system.
- + identifies the positive terminal(s) of equipment which is used with, or generates direct current. + identifies the negative terminal(s) of equipment which is used with, or generates direct current.
- No naked flame sources, such as lighted candles, should be placed on the equipment.
- This equipment is suitable for mounting on concrete or other non-combustible surface only.
- Install the equipment according to the instructions in this manual.
- To prevent injury, this equipment must be securely attached to the floor/wall in accordance with the installation instructions.
- The main element of the turnstile is stainless steel, which is rustless (antioxidant) and corrosion resistant (The anti corrosion ability in the medium of acid, alkali, and salt). In order to keep the stainless steel from being oxidized or corroded, you should clean and care the turnstile surface periodically.
  The instructions and tips for maintaining the turnstile are as follows:
  - Select different stainless steel types according to the variety of the environments. You can select 304 stainless steel for common circumstances and 316 stainless steel for the scenarios of seasides and chemical plants.
  - Keep the device surface clean and dry.
  - Use non-woven cloth and ethyl alcohol to clean the dirt on the device surface.
  - Use sourcing pad (do not use mesh cleaning ball) to clean the rust on the device surface by following the wire drawing on the stainless steel. And then use non-woven cloth and stainless steel cleaner to wipe the device surface.
  - Clean and maintain the device by using non-woven cloth and stainless steel cleaner periodically. It is suggest to clean the device every month in common circumstances and every week for severe environments (seaside and chemical plants for instance.

- Do not drop the device or subject it to physical shock, and do not expose it to high electromagnetism radiation. Avoid the equipment installation on vibrations surface or places subject to shock (ignorance can cause equipment damage).
- Do not place the device in extremely hot (refer to the specification of the device for the detailed operating temperature), cold, dusty or damp locations, and do not expose it to high electromagnetic radiation.
- The device cover for indoor use shall be kept from rain and moisture.
- Exposing the equipment to direct sun light, low ventilation or heat source such as heater or radiator is forbidden (ignorance can cause fire danger).
- Do not aim the device at the sun or extra bright places. A blooming or smear may occur otherwise (which is not a malfunction however), and affecting the endurance of sensor at the same time.
- Please use the provided glove when open up the device cover, avoid direct contact with the device cover, because the acidic sweat of the fingers may erode the surface coating of the device cover.
- Please use a soft and dry cloth when clean inside and outside surfaces of the device cover, do not use alkaline detergents.
- Please keep all wrappers after unpack them for future use. In case of any failure occurred, you need to return the device to the factory with the original wrapper. Transportation without the original wrapper may result in damage on the device and lead to additional costs.
- Improper use or replacement of the battery may result in hazard of explosion. Replace with the same or equivalent type only. Dispose of used batteries according to the instructions provided by the battery manufacturer.
- Biometric recognition products are not completely applicable to anti-spoofing environments. If you require a higher security level, use multiple authentication modes.
- Do not stay in the lane when the device is rebooting.
- RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.
- SUITABLE FOR MOUNTING ON CONCRETE OR OTHER NON-COMBUSTIBLE SURFACE ONLY.
- The instructions shall require connection of the equipment protective earthing conductor to the installation protective earthing conductor.

Contents

Chapter 1 Overview

1.1 Introduction



The tripod turnstile is designed to detect unauthorized entrance or exit. By adopting the turnstile integratedly with the access control system, person should authenticate to pass through the lane via swiping IC or ID card, scanning QR code, etc. It is widely used in attractions, stadiums, construction sites, residences, etc.

1.2 Main Features

- Bidirectional (Entering/Exiting) lane.
- Support remote control and management by HCP software.
- High-brightness LED indicates the entrance/exit and passing status.
- Fire alarm passing: When triggered, the arms will be dropped automatically for emergency evacuation.

- Support PC web browser, easy to do the configuration.
- Support ISAPI protocol for 3rd party integration development.

Chapter 2 System Wiring

The preparation before installation and general wiring.

Steps

1. Draw a central line on the installation surface of the left or right pedestal.
2. Draw other parallel lines for installing the other pedestals.

Note

The distance between the nearest two line is 785.9 mm.

3. Slotting on the installation surface and dig installation holes according to the hole position diagram.

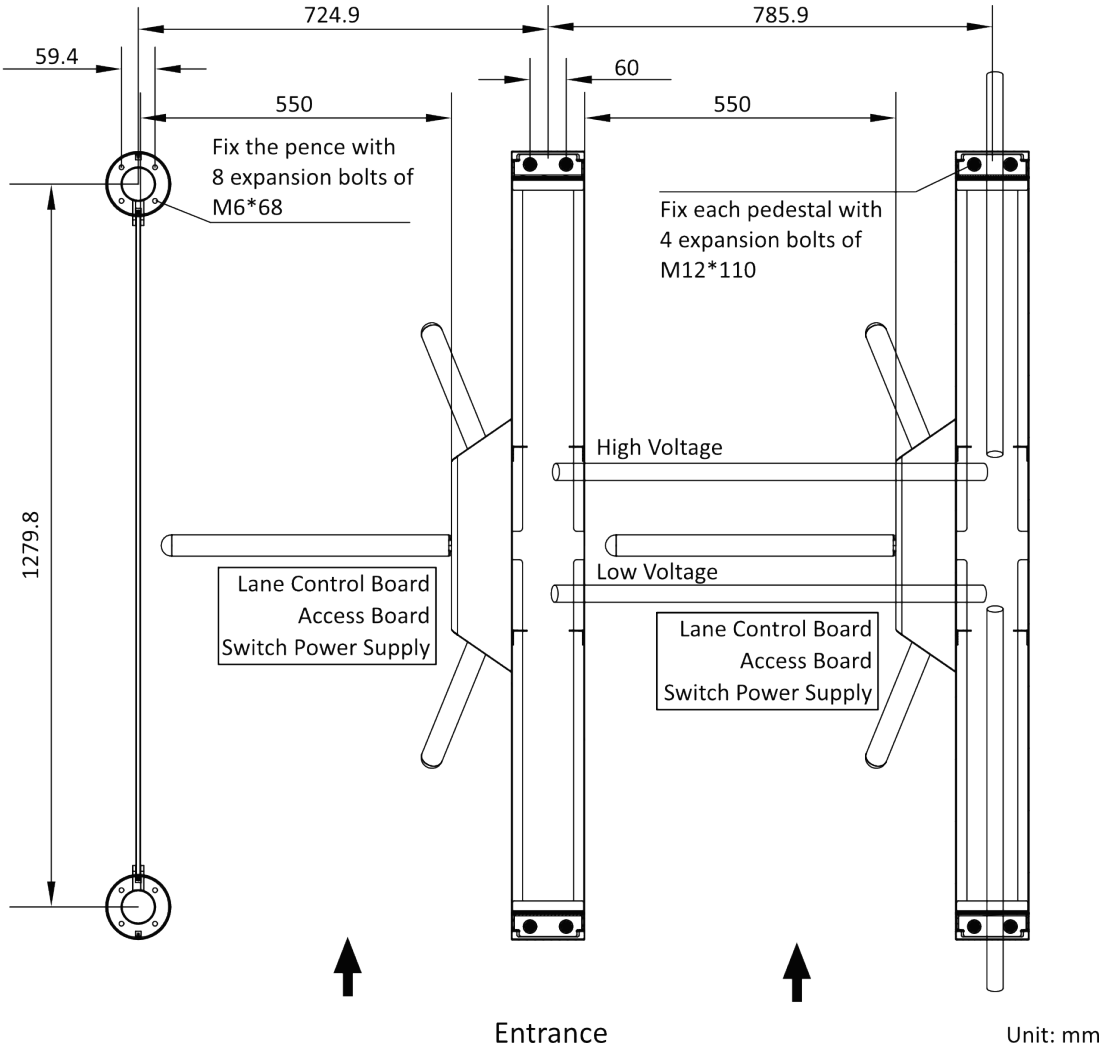


Figure 2-1 Hole Position Diagram

4. Bury cables. Each lane buries 1 network cable and 1 high voltage cable. For details, see the system wiring diagram below.

Note

- High voltage: AC power input
  Low voltage: network communication cable
- The inner diameter of the low voltage conduit and of the high voltage (AC power cord) conduit should be larger than 30 mm. If any high-power authentication device is required to install on the left pedestal, the diameter of its conduits should be larger.
- If you want to bury both of the AC power cord and the low voltage cable, the two cables should be in separated conduits to avoid interference.
- If more peripherals are required to connect, you should increase the conduit diameter or bury another conduit for the external cables.
- The external AC power cord should be double-insulated.
- The network cable must be CAT5e or other cables with better performance.
- Before digging holes, evaluate the thickness of the installation surface to avoid puncturing.

Chapter 3 Install Pedestals

Before You Start

Prepare for the installation tools, check the device and the accessories, and clear the installation base.

Steps

Note

- Make sure the device is installed on flat surface. The foundation should be hard and the thickness should exceeds the length of the expansion bolt.
- Make sure the device is powered off during installation and other operations.
- The installation tools are put inside the package of the pedestal.
- In order to prevent stainless steel from rusting due to dirt during the installation, it is recommended to tear off the protective film after the device is installed.
- There may be residual glue at the film cutting position, and it is recommended to wipe the glue with WD-40 protective liquid after tearing the film.
- Do not immerse the pedestal in the water. In special circumstances, the immersed height should be no more than 150 mm.

1. Prepare for the installation tools, check the components, and prepare for the installation base.
2. Align the pedestals with the pre-buried expansion bolts.
3. Remove 4 screws of each pedestal that fix the 2 side panels, and remove the side panels.
4. Secure the pedestals with expansion bolts and fix the side panels to its original position with screws.
5. Remove the maintenance door for cable wiring.

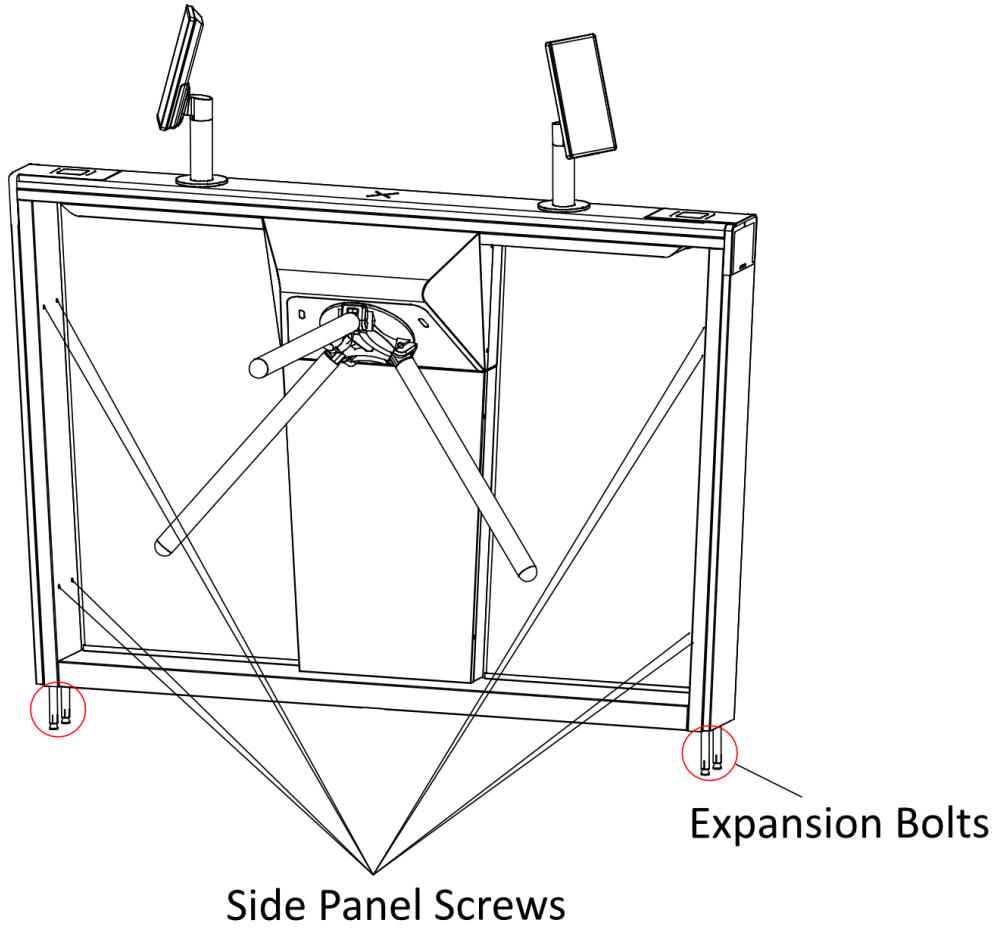


Figure 3-1 Remove Side Panel Screws

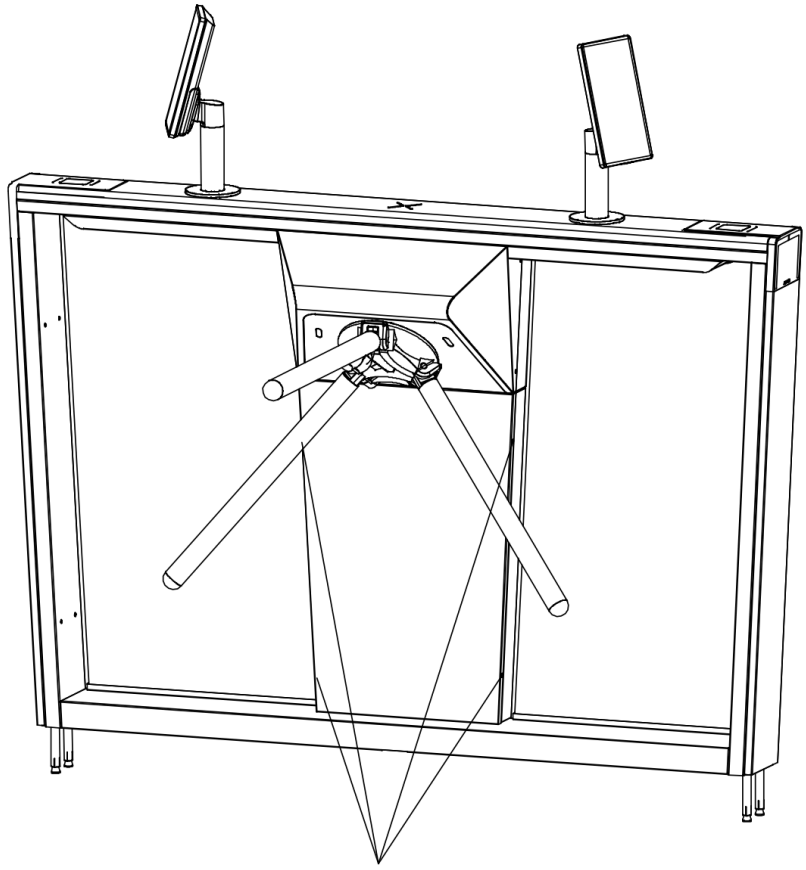


Figure 3-2 Remove Maintenance Door Screws

Chapter 4 General Wiring

Note

- After maintenance, you should close the water-proof cover over the high/low voltage module.
- When you should maintain or disassemble the high voltage modules, you should remove the entire high voltage modules and maintain it outside the turnstile. You should unplug the cables that connected to the peripherals before maintenance to avoid destroy of the device.

4.1 Components Introduction

By default, basic components of the turnstile are connected well. The pedestals can communicate by wiring the network cable and peripherals. And the turnstile supports wiring the AC electric supply for the whole system's power supply.

Note

The voltage fluctuation of the electric supply is between 200 VAC and 240 VAC, 50 to 60 Hz.

The picture displayed below describes each component's position on the turnstile.

Note

The diagram is for reference only.

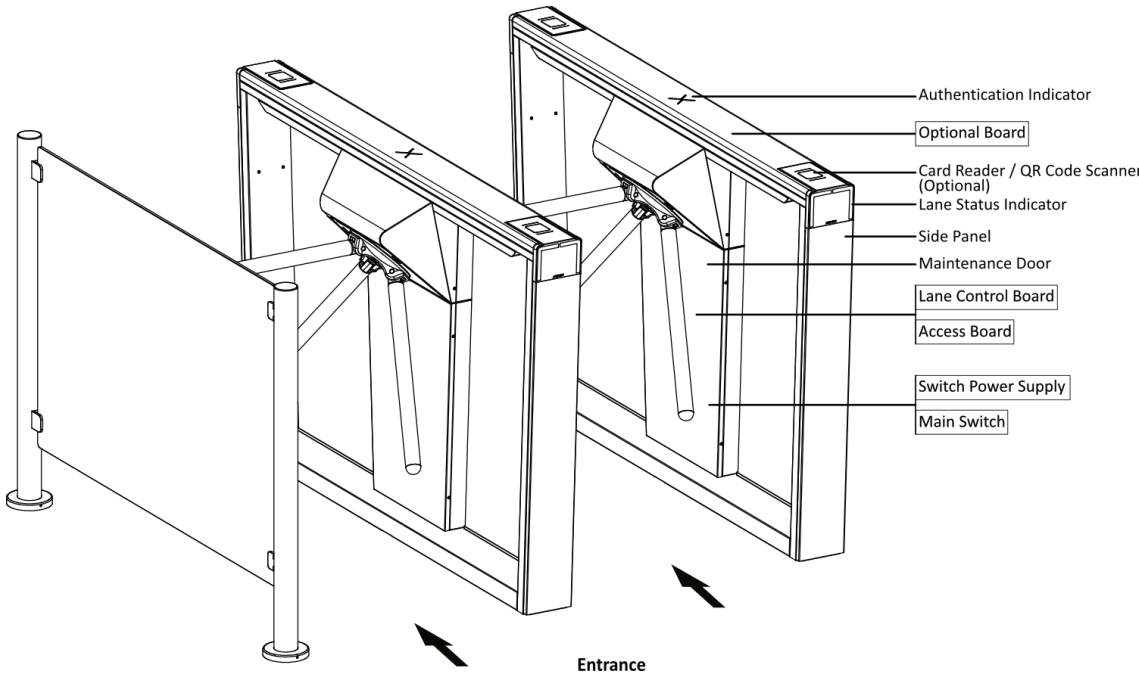


Figure 4-1 Components

Lane Status Indicator

The lane status indicator indicates different passing mode.

- Light stays blue: remain open
- Light stays red: remain closed
- Light stays white: controlled

Authentication Indicator

The authentication indicator indicates authentication and alarm status.

- The light stays off when the device is on standby mode.
- The light on both side will stay green for authenticated passing.
- The light on the authenticated side will flash red when authentication fails.
- When there is a reverse, tailgating, staying out of time, or accidental entry, the red light of both sides flashes until the alarm is reset.

The picture displayed below describes the IR module and their corresponding number on the pedestal.

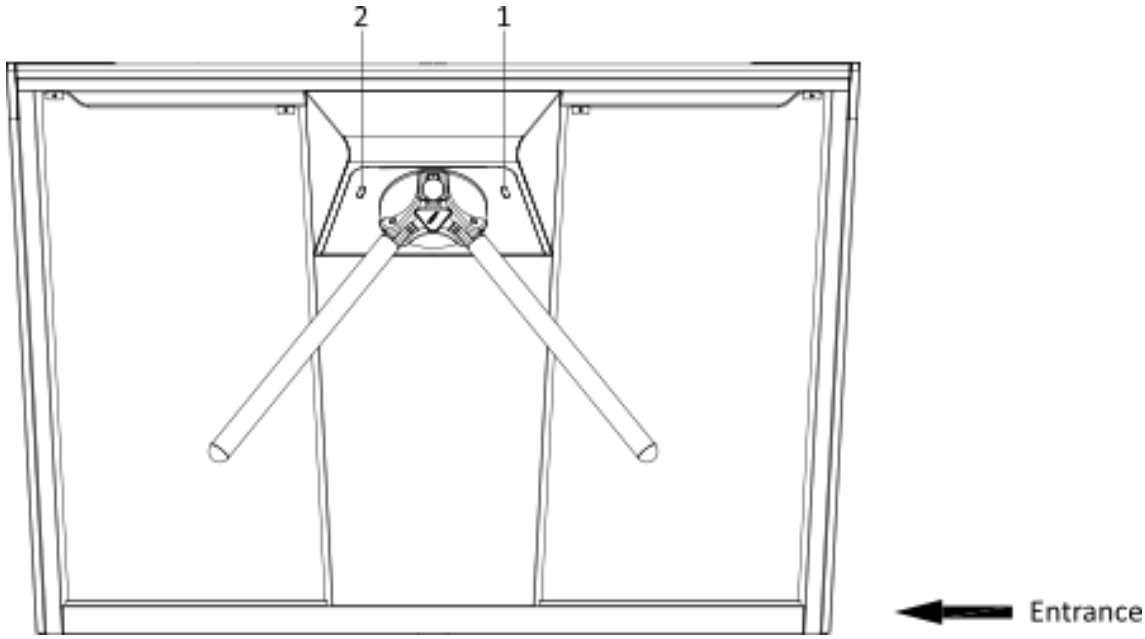


Figure 4-2 IR Module

4.2 Serial Port Introduction

If card reader, QR code scanner, etc. are not installed on the device, you can wire according to the serial port.

View serial port position according to the diagram below.

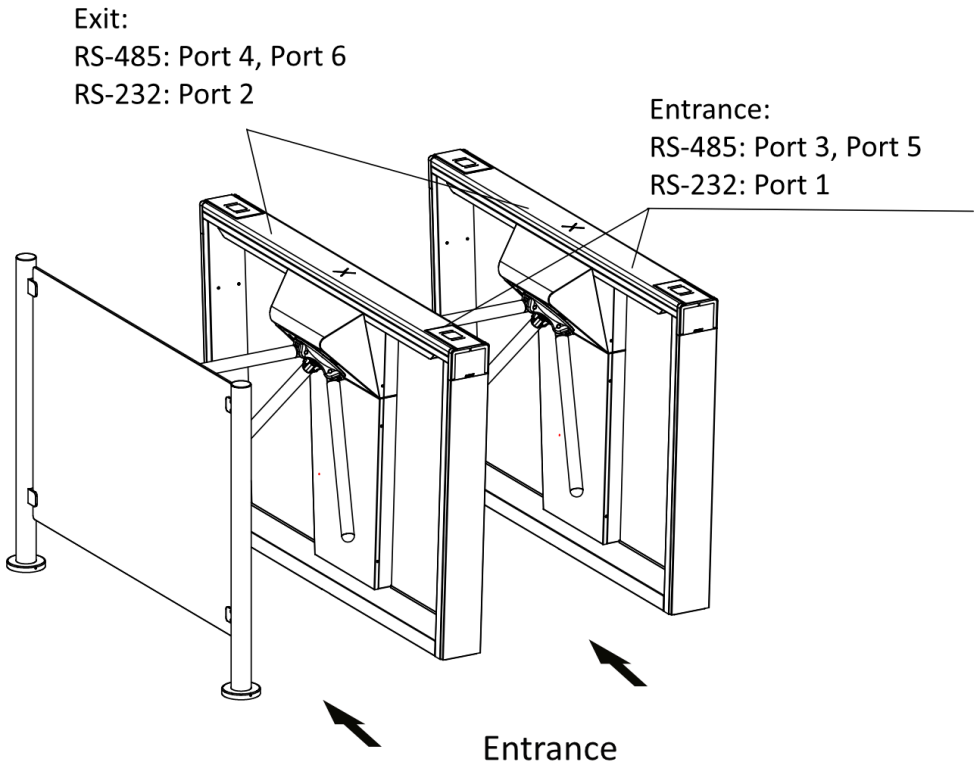


Figure 4-3 Serial Port

Serial Port No. on WEB	Communication Method	Peripheral Type
Port 1	RS-232A	QR Code Scanner (Entrance)
Port 2	RS-232B	QR Code Scanner (Exit)
Port 3	RS-485A	QR Code Scanner (Entrance)
Port 4	RS-485B	QR Code Scanner (Exit)
Port 5	RS-485C	Card Reader (Entrance)
Port 6	RS-485D	Card Reader (Exit)

4.3 General Wiring

The general wiring of lane control board, access control board and optional board.

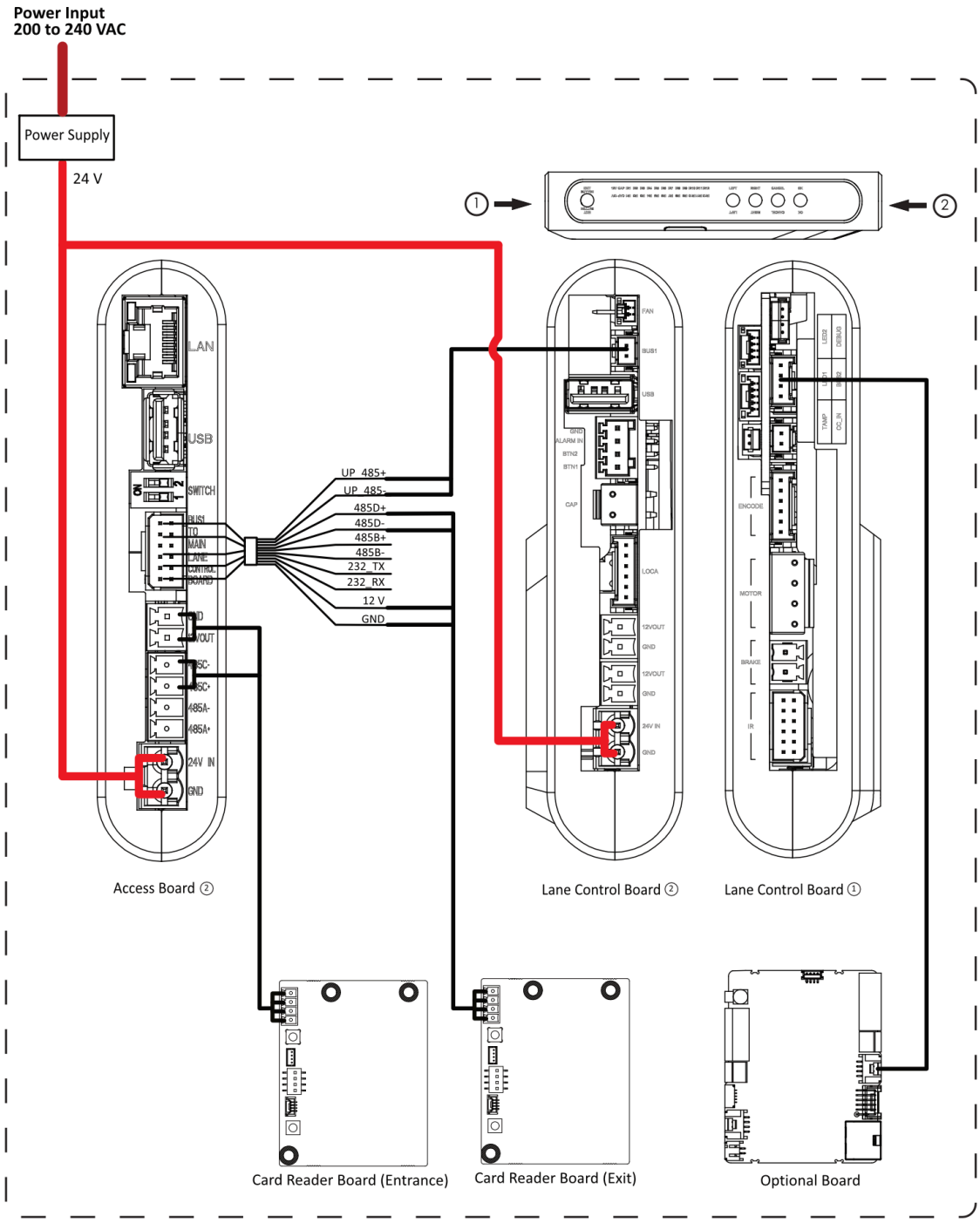


Figure 4-4 General Wiring

Note

- The power cable from main switch to the main lane control board has been connected. You will need to prepare the 14AWG power cable to connect the AC power input to power supply.
- Barrier opens at the entrance/exit: connect to BTN1/BTN2 and GND.

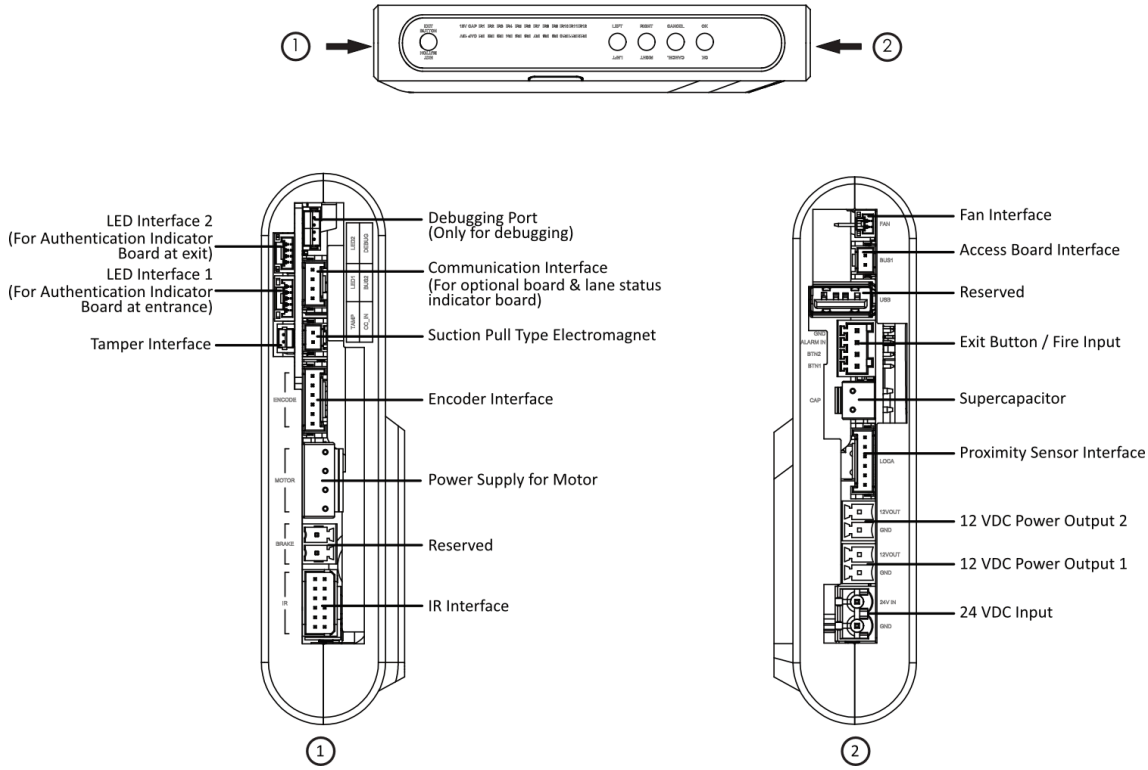
4.4 Wiring

Scan the QR code to view the wiring guide video.

4.5 Terminal Description

4.5.1 Lane Control Board

The picture displayed below is the lane control board diagram.



4.5.2 Access Board (Optional)

Access board is mainly used for authority identification in places with high security levels such as public security or judicial place, external device accessing, and communication with the upper platform and lane controller.

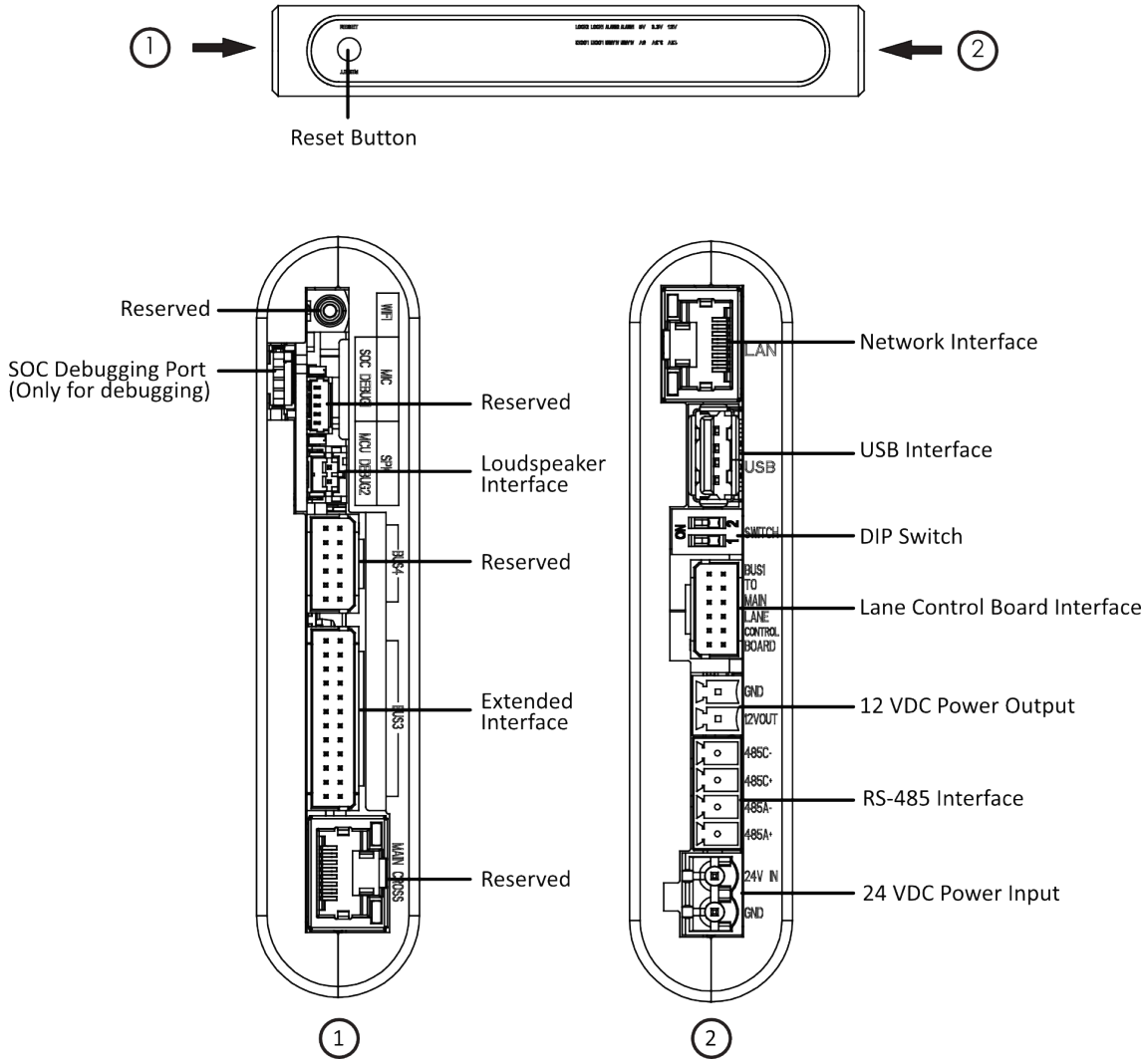


Figure 4-5 Access Board

Note

- RS-485A corresponds to port 3 on web and is for QR code scanner at entrance by default. RS-485C corresponds to port 5 on web and is for card reader at entrance by default.
- The SOC serial port are for maintenance and debugging use only.
- Press the Reset button for 5 s and the device will start to restore to factory settings.
- The DIP switch is for study mode setting and keyfob paring. For detailed information about the DIP switch, see *DIP Switch Description*.

The wiring diagram of extended interface of access control board is shown as follows.

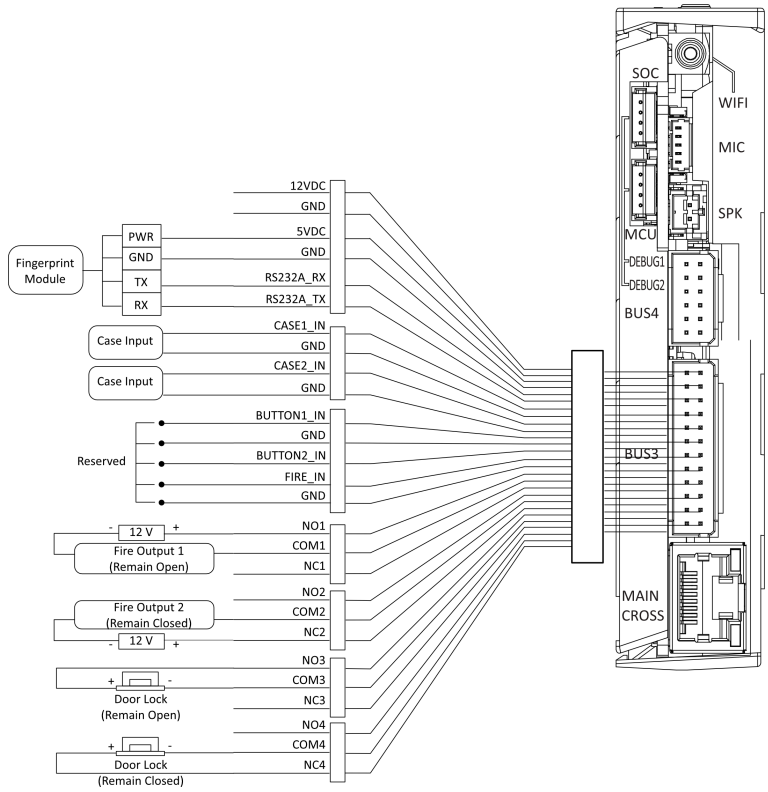


Figure 4-6 Wring Diagram of BUS3 Interface

Note

RS-232A corresponds to port 1 on web and is for QR code scanner at entrance by default.

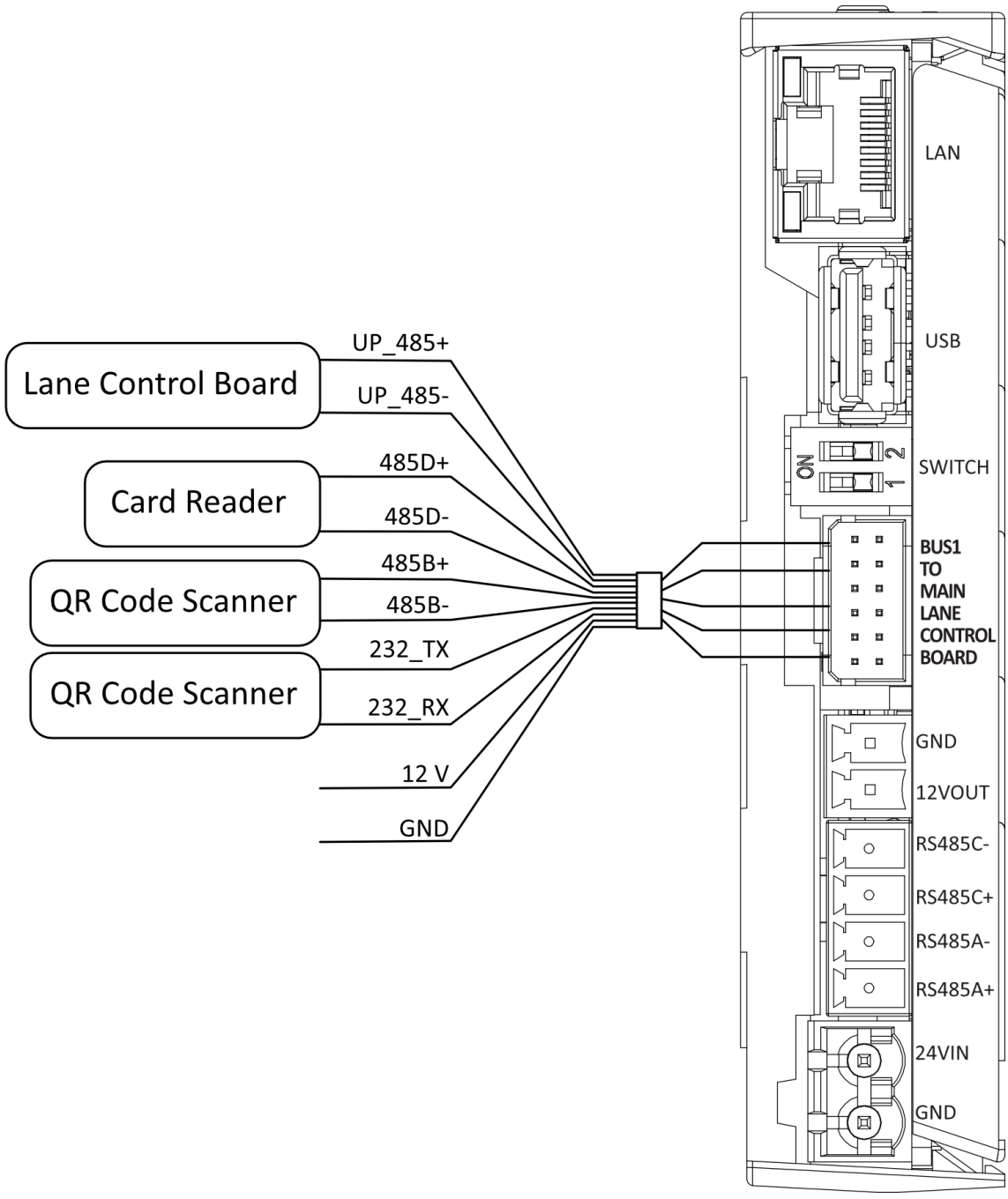


Figure 4-7 Wring Diagram of BUS1 Interface

Note

- RS-232 corresponds to port 2 on web and is for QR code scanner at exit by default.
- RS-485B corresponds to port 4 on web and is for QR code scanner at exit by default.
- RS-485D corresponds to port 6 on web and is for card reader at exit by default.

4.5.3 Optional Board

The picture displayed below is the optional board diagram.

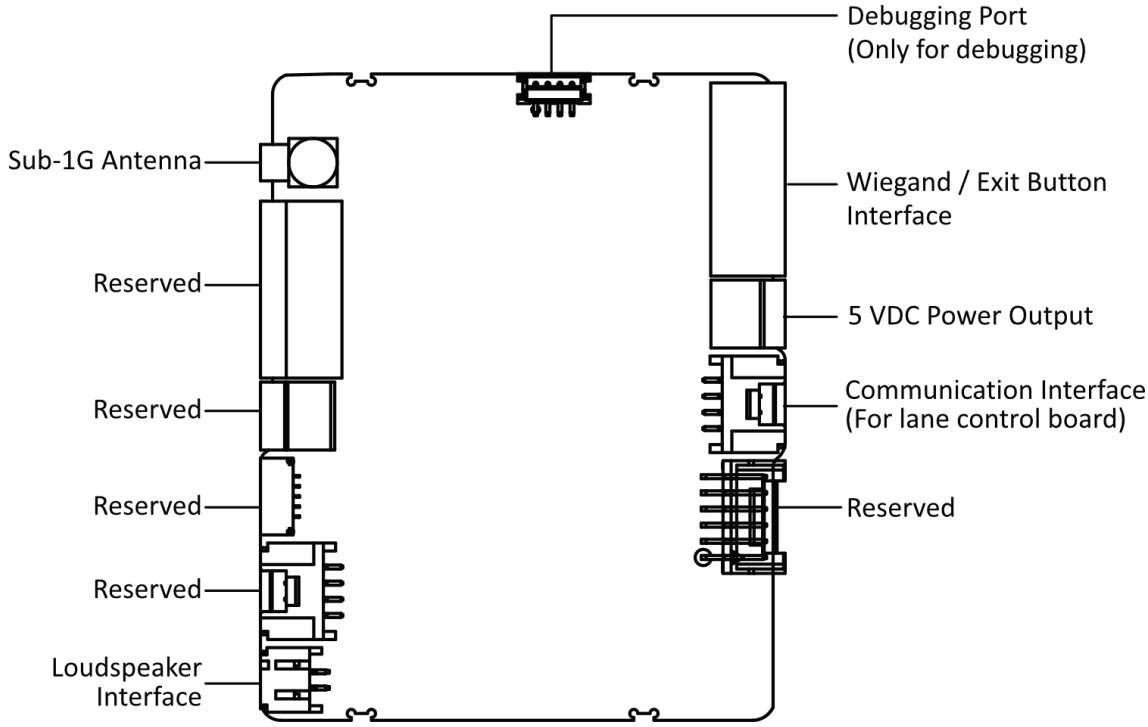


Figure 4-8 Optional Board

Note

If access board is installed, the loudspeaker can be connected to the access board; If access board is not installed, the loudspeaker can be connected to the optional board.

4.5.4 Card Reader Board (Optional)

The card reader board can be connected to the access control board via RS-485 interface.

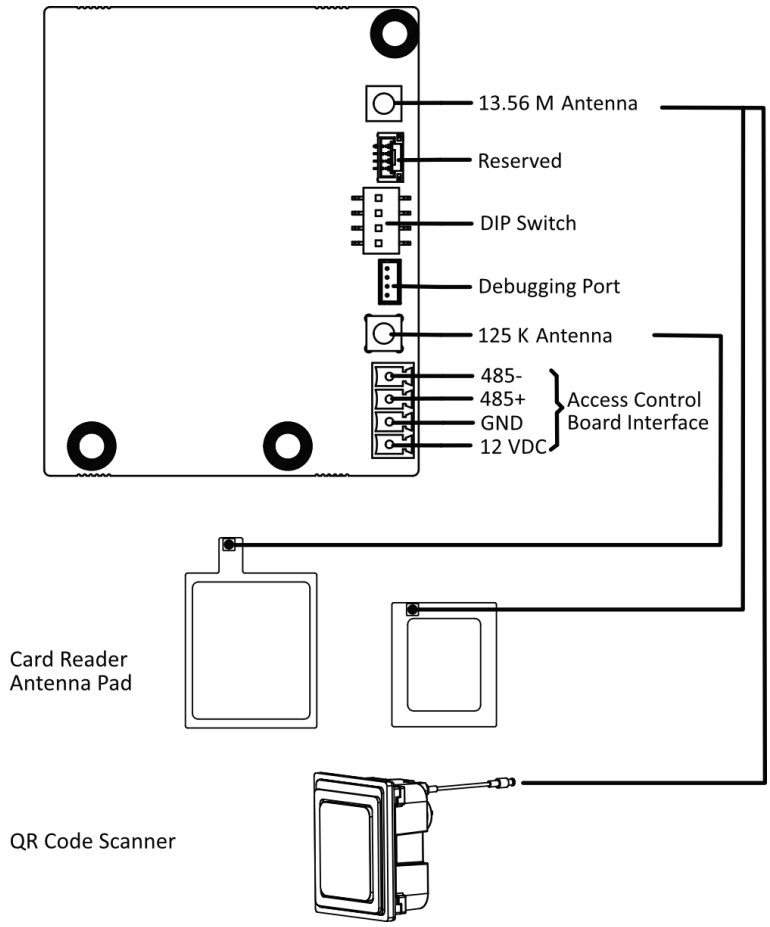
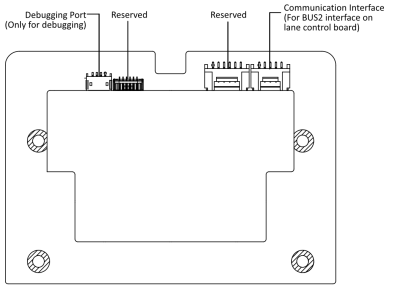
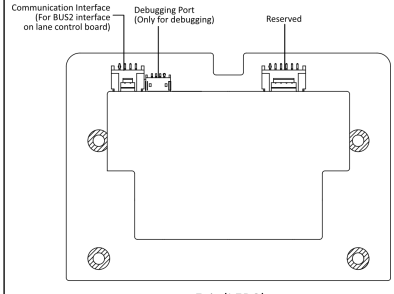


Figure 4-9 Card Reader Board

4.5.5 Lane Status Indicator Board

Lane status indicator board in different pedestals are shown as follows.

Table 4-1 Lane Status Indicator Board

Entrance	Exit
 Entrance (LED1)	 Exit (LED2)

4.5.6 Authentication Indicator Board

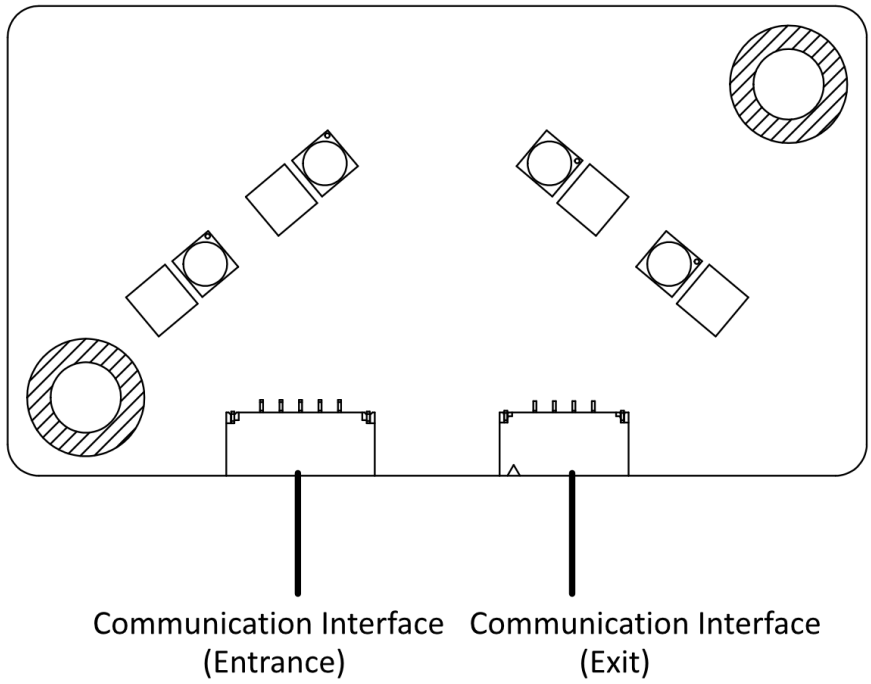


Figure 4-10 Authentication Indicator Board

The two interfaces of the authentication indicator board connect to the LED interface 1&2 on the lane control board.

4.5.7 RS-485 Wiring

The RS-485 interfaces on the access control board are suggested to connect with the face recognition module or the card reader. Here takes connecting with a card reader as an example.

Note

- If there are other RS-485 devices connecting, the ID of the RS-485 cannot be conflicted.
- The connected 12 V power interface for the face recognition terminal cannot be connected with other 12 V devices.

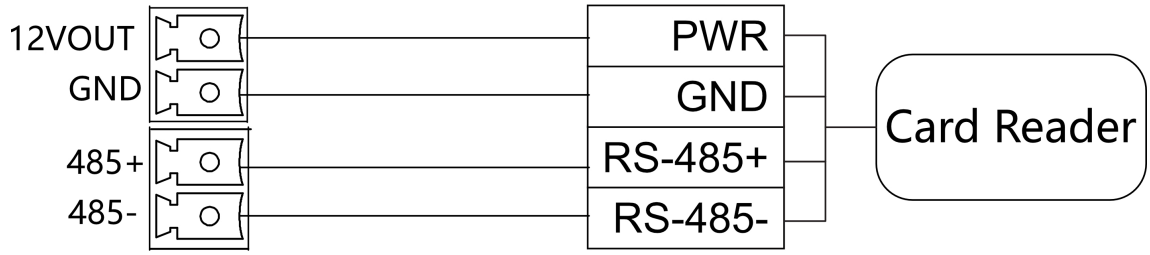


Figure 4-11 Wiring RS-485

4.5.8 RS-232 Wiring

Note

- There is 1 RS-232 interface on the extended interface of access board. The RS-232A corresponds to port 1 on web.
- There is 1 RS-232 interface on the BUS1 interface of access board. The RS-232B corresponds to port 2 on web.

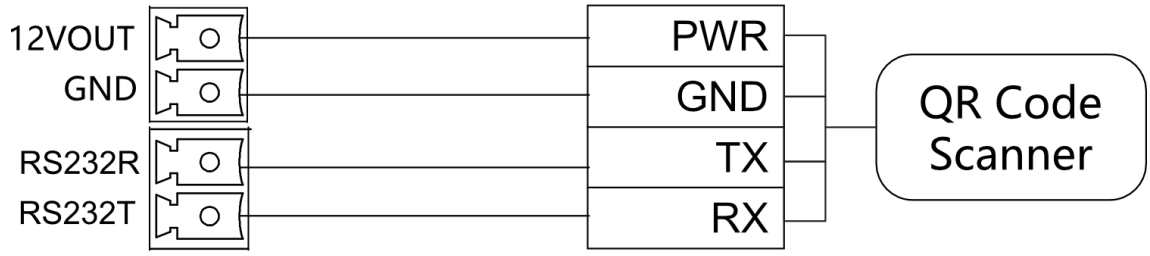


Figure 4-12 RS-232 Wiring

4.5.9 Alarm Input Wiring

On the lane control board, you can wire the fire alarm input interface.

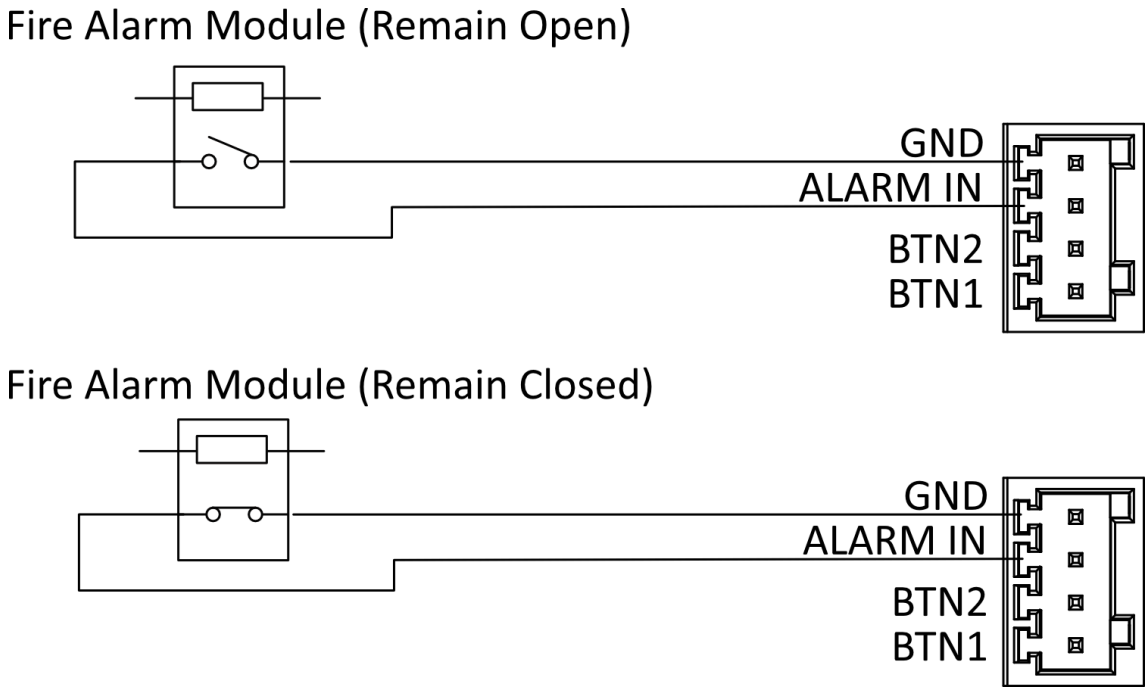


Figure 4-13 Alarm Input

4.5.10 Exit Button Wiring

The lane control board has 1 button interface, which can be connected to exit button or face recognition device.

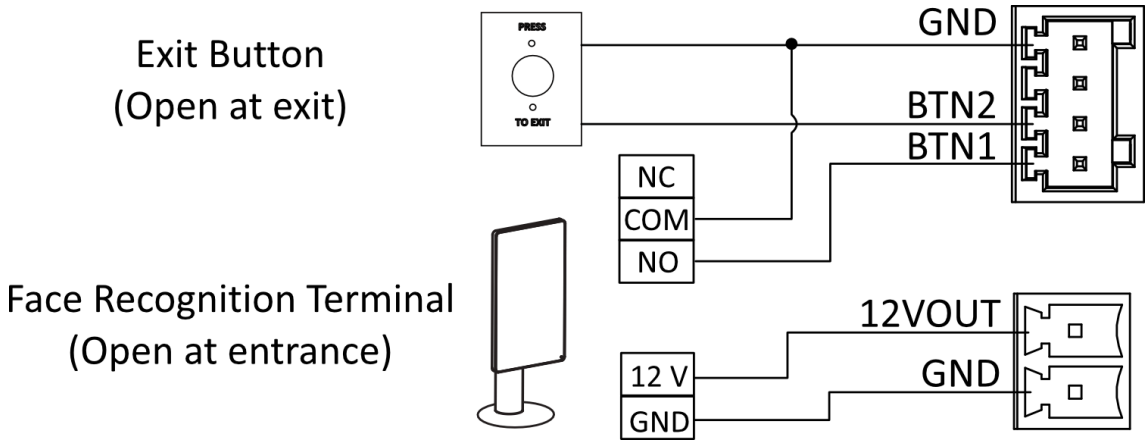


Figure 4-14 Exit Button Wiring

Note

- Barrier open at the entrance: connect to BTN1 and GND.
- Barrier open at the exit: connect to BTN2 and GND.
- The power supply for the face recognition terminal is 12 V, 2 A, 24 W.

4.6 Device Settings

You can configure the device via button on the lane control board or the DIP switch on the access board.

Study Mode

The arm will study the closed position automatically.

Normal Mode

The device works normally.

Passing Mode

There are 9 kinds of passing mode.

Memory Mode

Memory mode is enabled by default. Multiple cards presenting for multiple person passing is allowable when enabling the memory mode. When the passing person's number exceeds the card presenting number, or after the latest person passing with no other person passing within the open duration, the arm can't be pushed open.

4.6.1 Configuration via Button

Button Description

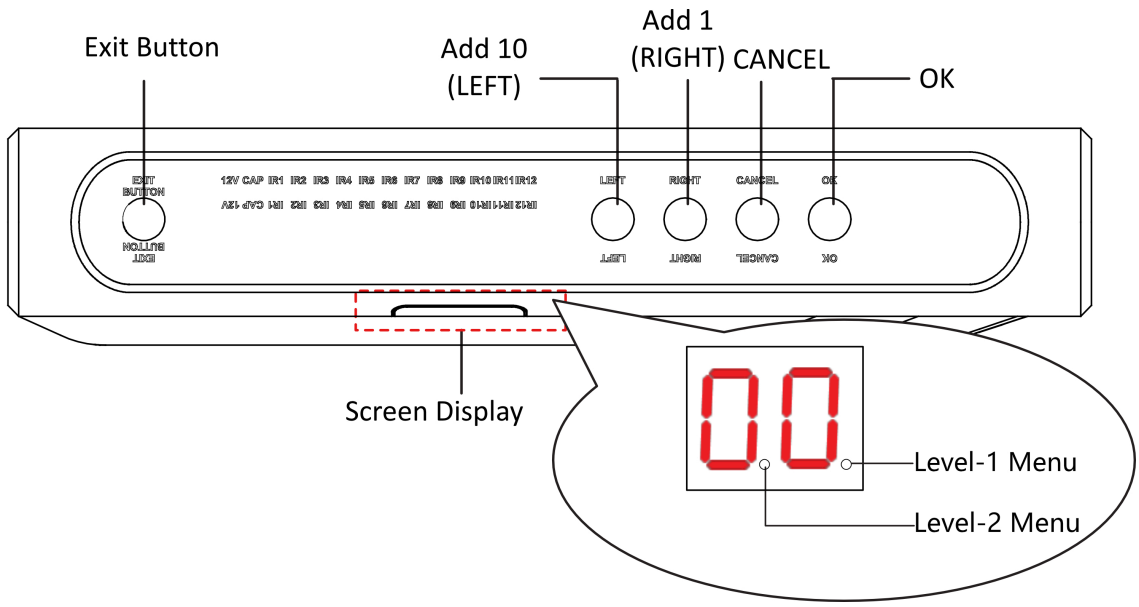


Figure 4-15 Button

Exit Button

- Press to open the barrier from the entrance position.
- Double press to open the barrier from the exit position.

Parameter Configuration Button

- LEFT: Press to add 10 to configuration data.
- RIGHT: Press to add 1 configuration data.
- CANCEL: Return to the Level-1 menu, or exit Level-1 menu.
- OK: Confirm the settings, or enter configuration mode, or enter the Level-2 menu.

Note

- Configuration No. is displayed by two digital tubes.
- Level-1 Menu: If the decimal point on the right is on, it indicates the Level-1 menu. The number represents the configuration No.
- Level-2 Menu: If the decimal point in the middle is on, it indicates the level-2 menu. The number represents the configuration No.

Button Configuration Procedure

Here takes setting intrusion duration to 12 s as example:

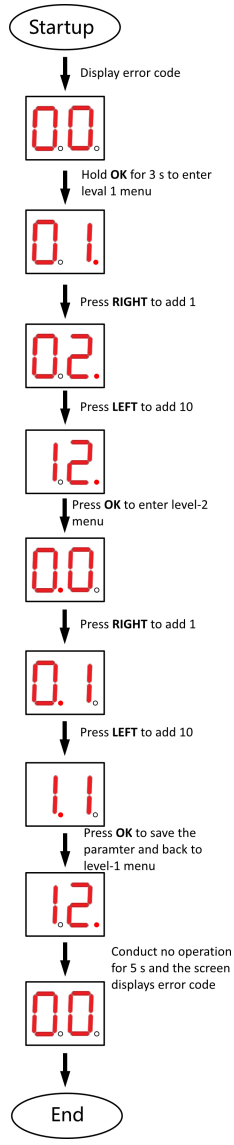


Figure 4-16 Procedure

Steps:

1. Hold **OK** button for 3 s until one beep occurs. The device enter the configuration mode. Level 1 menu lights up. The display screen displays the configuration No. **1**.
2. In the Level-1 menu, press **LEFT** (plus 10) once and press **RIGHT** (plus 1) twice to set the configuration No. to 12. Press **OK** to save settings and the enter the level-2 menu. Or you can press **CANCEL** to exit the current menu, or conduct no operation for 5 s to cancel configuration and exit the current menu.
3. After enter the level 2 menu, press **LEFT** (plus 10) once and **RIGHT** (plus 1) twice to set the configuration No. to 12. Press **OK** to save the settings. Or you can press **CANCEL** to exit the current menu, or conduct no operation for 5 s to cancel configuration and exit the current menu.

Note

- The configuration No. will display in a cycle.
- Each configuration No. refers to a function. For details about the configuration No. and its related function, see ***Button Configuration Description*** .

4.6.2 Study Mode Settings

Set Study Mode via Button

Enter the study mode through button configuration to set the closed position of the device arm.

Steps

Note

- For details about button's operation, see ***Configuration via Button*** .
- For details about the configuration No. and its related function, see ***Button Configuration Description*** .

1. Enter the study mode.
   1) Enter the configuration mode.
   2) Set the configuration No. in Level-1 to **1**. The device will enter the study mode.
   3) Set the configuration No. in the Level-2 menu to **2**. The device will enter the study mode.
2. Push the arm until it is vertical to the pedestal.
3. When you hear the continuous buzzing, stop push the arm and exit the lane.
4. When you hear **Studying completed, welcome**, the configuration is completed.

Set Study Mode

Enter the study mode through DIP switching to set the closed position of the device arm.

Steps

1. Set the No.1 of the 2-digit DIP switch on the access control board to ON by referring the following figure to enter the study mode.

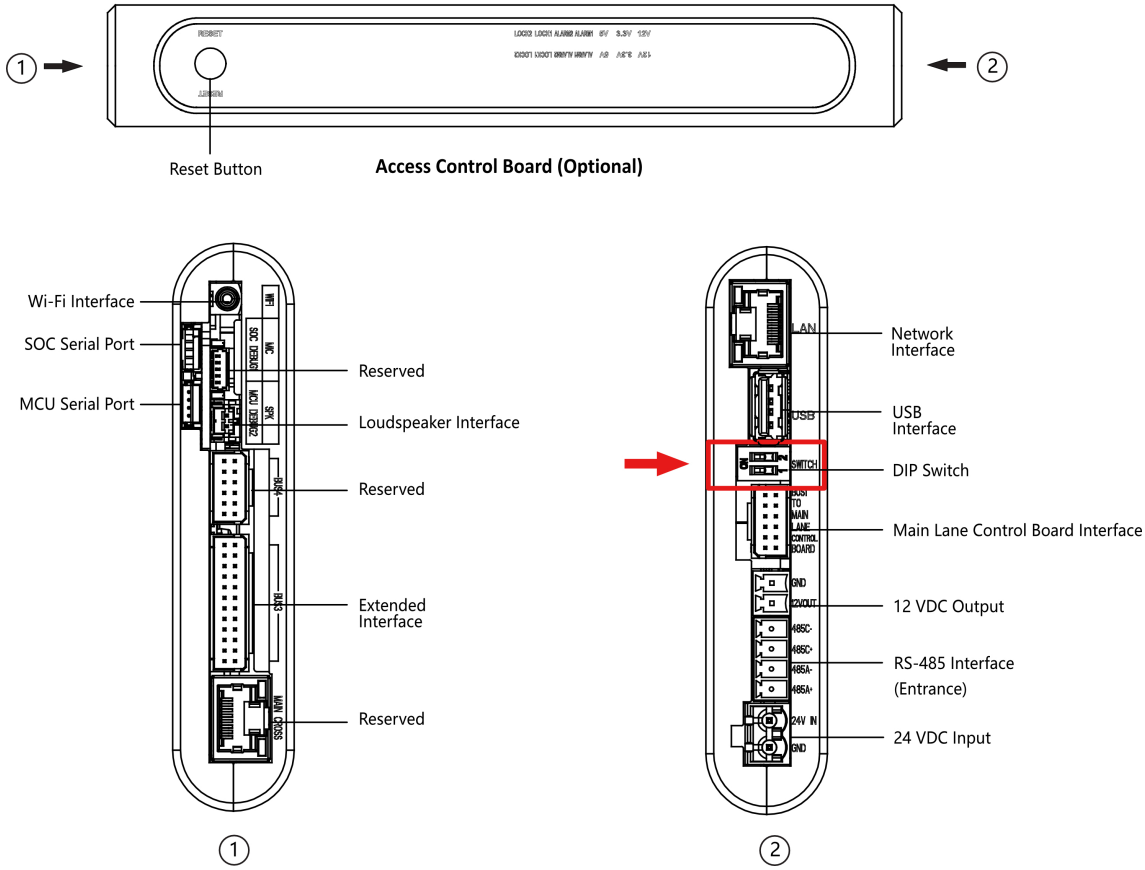


Figure 4-17 DIP Switch Location

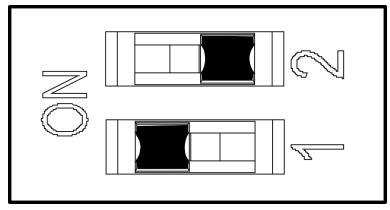


Figure 4-18 Study Mode

2. Push the arm until it is vertical to the pedestal.
3. When you hear the continuous buzzing, stop push the arm and exit the lane.
4. When you hear **Studying completed, welcome**, set the No.1 switches of the 2-digit DIP Switch on the access board by referring to the following figure.

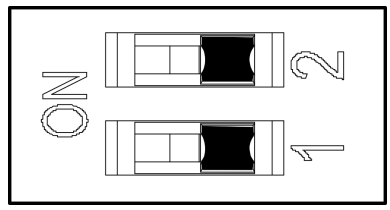


Figure 4-19 Normal Mode

5. Power on the device again.

Note

For details about the DIP switch value and meaning, see *DIP Switch Description*.

The arm will rotate to open automatically and turns back to the closed position. At this circumstance, the device enters the normal mode.

4.6.3 Keyfob Pairing

Pair keyfob via button or DIP switch.

Pair Keyfob via Button

Pair the keyfob to the device via button to open/close the barrier remotely.

Before You Start

Ask our technique supports or sales and purchase the keyfob.

Steps

Note

- For details about button's operation, see ***Configuration via Button*** .
- For details about the configuration No. and its related function, see ***Button Configuration Description*** .
- For details about the keyfob operation instructions, see the keyfob's user manual.

1. Enter the keyfob pairing mode.
   1) Enter the configuration mode.
   2) Set the configuration No. in Level-1 to **2**. The device will enter the keyfob pairing mode.
   3) Set the configuration No. in the Level-2 menu to **2**. The device will enter the keyfob pairing mode.
2. Hold the **Close** button for more than 10 seconds.

   The keyfob's indicator will flash if the pairing is completed.
3. Exit the keyfob pairing mode.
   1) Enter the configuration mode.

2) Set the configuration No. in Level-1 to **2**. The device will enter the keyfob pairing mode.
3) Set the configuration No. in the Level-2 menu to **1**. The device will exit the keyfob pairing mode.

Pair Keyfob via DIP Switch (Optional)

Pair the remote control to the device through DIP switch to open/close the arm remotely.

Before You Start

Ask our technique supports or sales and purchase the keyfob.

Steps

1. Power off the turnstile.

2. Set the No.2 switch of the DIP Switch on the access control board to the ON side.

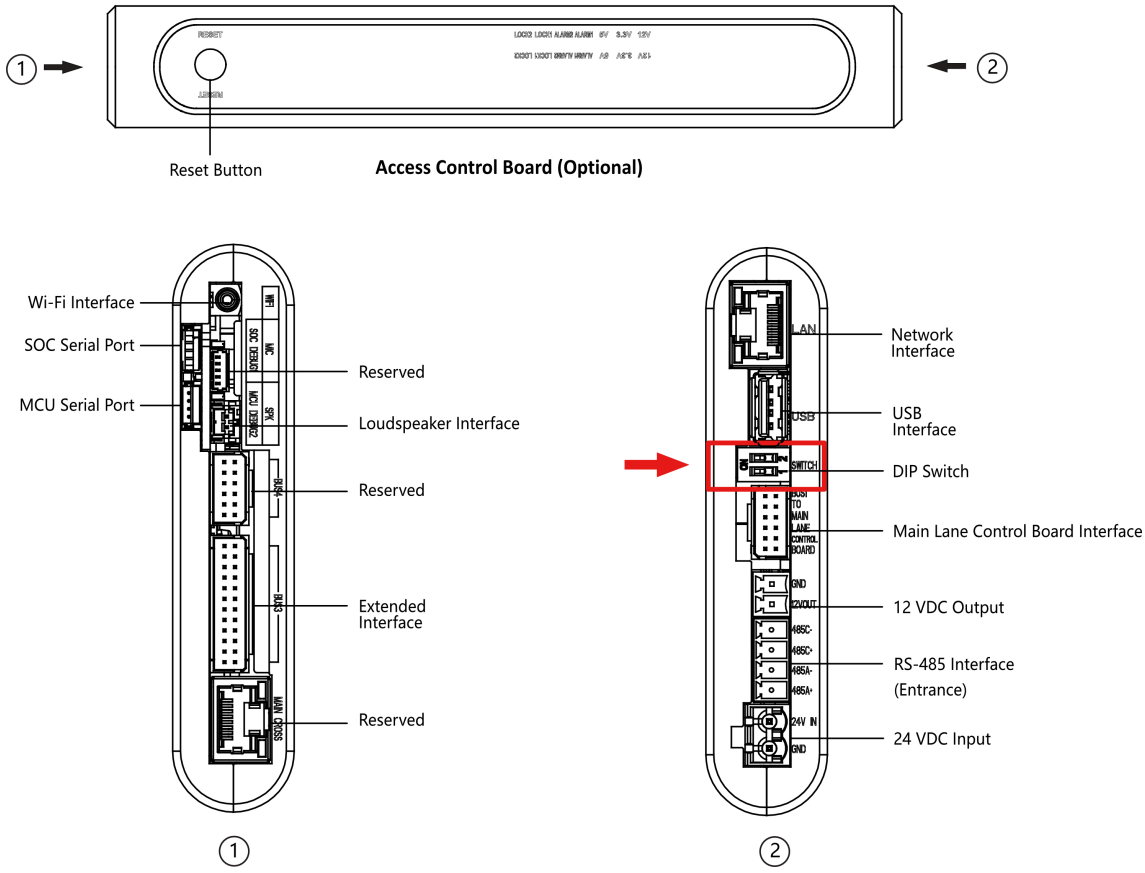


Figure 4-20 DIP Switch Location

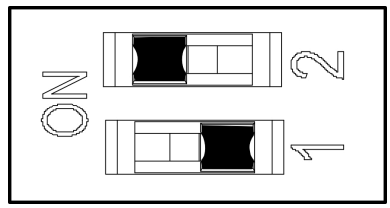


Figure 4-21 Enable Keyfob Paring Mode

3. Power on the turnstile and it will enter the keyfob pairing mode.
4. Hold the **Close** button for more than 10 seconds.

   The keyfob's indicator of the will flash twice if the pairing is completed.
5. Set the No.2 switch to the OFF side.

Note

- Only one turnstile can pair the keyfob. If multiple turnstiles are in the pairing mode, the keyfob will select only one of them to pair.
- For details about DIP switch value and meaning, see ***DIP Switch Description*** .

4.6.4 Initialize Device

Steps

1. Hold the initialization button on the access control board for 5 s.

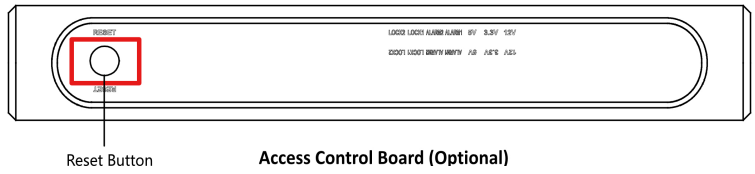


Figure 4-22 Initialization Button Position

2. The device will start restoring to factory settings.
3. When the process is finished, the device will beep for 3 s.

Caution

The initialization of the device will restore all the parameters to the default setting and all the device events are deleted.

Note

Make sure no persons are in the lane when powering on the device.

Chapter 5 Activation

You should activate the device before the first login. After powering on the device, the system will switch to Device Activation page.

Activation via the device, SADP tool and the client software are supported.

The default values of the device are as follows:

- The default IP address: 192.0.0.64
- The default port No.: 8000
- The default user name: admin

5.1 Activate via SADP

SADP is a tool to detect, activate and modify the IP address of the device over the LAN.

Before You Start

- Get the SADP software from the supplied disk or the official website ***http://www.hikvision.com/en/*** , and install the SADP according to the prompts.
- The device and the PC that runs the SADP tool should be within the same subnet.

The following steps show how to activate a device and modify its IP address. For batch activation and IP addresses modification, refer to *User Manual of SADP* for details.

Steps

1. Run the SADP software and search the online devices.
2. Find and select your device in online device list.
3. Input new password (admin password) and confirm the password.

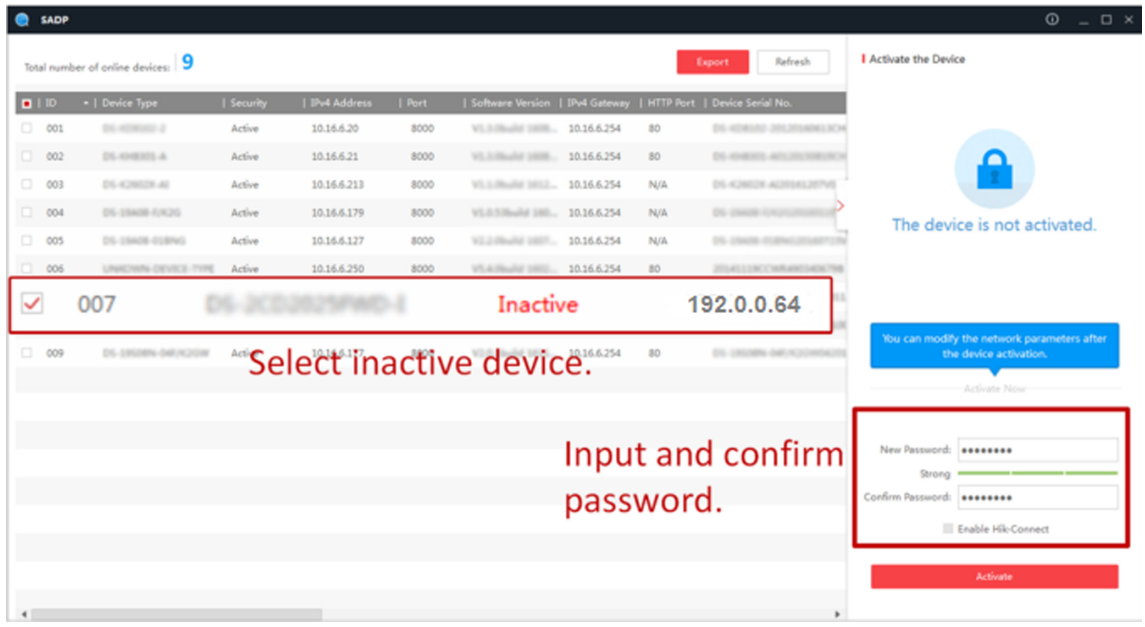
Caution

STRONG PASSWORD RECOMMENDED-We highly recommend you create a strong password of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

Note

Characters containing admin and nimda are not supported to be set as activation password.

4. Click **Activate** to start activation.



Status of the device becomes **Active** after successful activation.

5. Modify IP address of the device.
   1) Select the device.
   2) Change the device IP address to the same subnet as your computer by either modifying the IP address manually or checking **Enable DHCP**.
   3) Input the admin password and click **Modify** to activate your IP address modification.

5.2 Activate Device via iVMS-4200 Client Software

For some devices, you are required to create the password to activate them before they can be added to the iVMS-4200 software and work properly.

Steps

Note

This function should be supported by the device.

1. Enter the Device Management page.
2. Click on the right of **Device Management** and select **Device**.
3. Click **Online Device** to show the online device area.

   The searched online devices are displayed in the list.
4. Check the device status (shown on **Security Level** column) and select an inactive device.
5. Click **Activate** to open the Activation dialog.
6. Create a password in the password field, and confirm the password.

Caution

The password strength of the device can be automatically checked. We highly recommend you change the password of your own choosing (using a minimum of 8 characters, including at least three kinds of following categories: upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you change your password regularly, especially in the high security system, changing the password monthly or weekly can better protect your product.
Proper configuration of all passwords and other security settings is the responsibility of the service provider and/or end-user.

Note

Characters containing admin and nimda are not supported to be set as activation password.

7. Click **OK** to activate the device.

5.3 Activate via Web Browser

You can activate the device via the web browser.

Steps

1. Enter the device default IP address (192.0.0.64) in the address bar of the web browser, and press **Enter**.

Note

Make sure the device IP address and the computer's should be in the same IP segment.

2. Create a new password (admin password) and confirm the password.

Caution

STRONG PASSWORD RECOMMENDED-We highly recommend you create a strong password of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

3. Click **Activate**.
4. Edit the device IP address. You can edit the IP address via the SADP tool, the device, and the client software.

Chapter 6 Quick Operation via Web Browser

6.1 Time Settings

Click in the top right of the web page to enter the wizard page.

Device Time

Display the device time in real time.

Time Zone

Select the device located time zone from the drop-down list.

Time Synchronization Mode

NTP

You should set the NTP server's IP address, port No., and interval.

Manual

By default, the device time should be synchronized manually. You can set the device time manually or check **Sync. with Computer Time** to synchronize the device time with the computer's time.

DST

You can enable DST, set and view the DST start time, end time and bias time.

Click **Complete** to save the settings.

Chapter 7 Operation via Web Browser

7.1 Login

You can login via the web browser or the remote configuration of the client software.

Note

Make sure the device is activated. For detailed information about activation, see ***Activation*** .

Login via Web Browser

Enter the device IP address in the address bar of the web browser and press **Enter** to enter the login page.
Enter the device user name and the password. Click **Login**.

Login via Remote Configuration of Client Software

Download and open the client software. After adding the device, click to enter the Configuration page.

7.2 Live View

You can view the device component status, real-time event, person information, network status, basic information, and device capacity. You can also control the barrier remotely.

Function Descriptions:

Device Component Status

You can check if the device is working properly. Click **View More** to view the detailed component status.

Remote Control

/ / /

The door is opened/closed/remaining open/remaining closed.

Real-Time Event

You can view the event Employee ID, Name, Card No., Event Type, Time, and Operation. You can also click **View More** to enter the event search page.

Person Information

You can view the quantity information of person and card.

Network Status

You can view the connected and registered status of wired network, OTAP and cloud service.

Basic Information

You can view the model, serial No. and firmware version.

Device Capacity

You can view the person, card and event capacity.

7.3 Person Management

Click **Add** to add the person's information, including the basic information, certificate, authentication and settings.

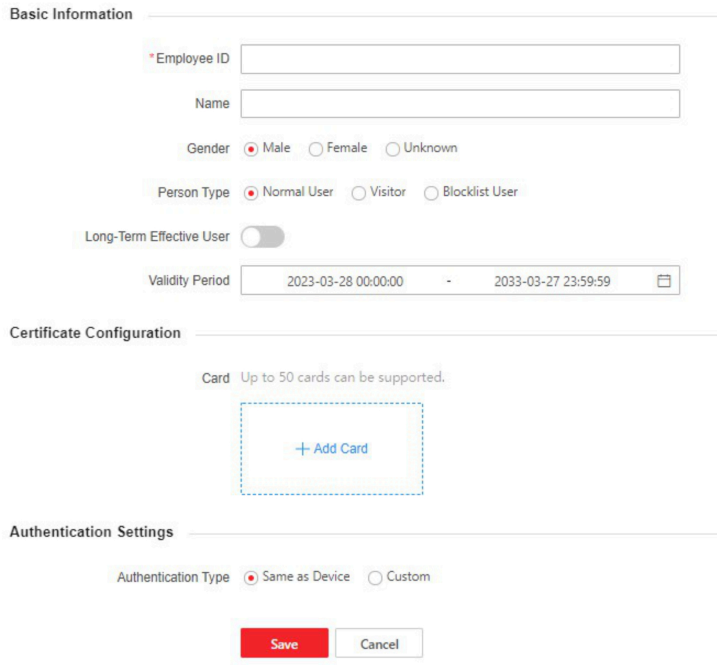


Figure 7-1 Add Person

Add Basic Information

Click **Person Management → Add** to enter the Add Person page.
Add the person's basic information, including the employee ID, the person's name, and person type.
If you select **Visitor** as the person type, you can set the visit times.
Click **Save** to save the settings.

Set Permission Time

Click **Person Management → Add** to enter the Add Person page.
Enable **Long-Term Effective User**, or set **Validity Period** and the person can only has the permission within the configured time period according to your actual needs.
Click **Save** to save the settings.

Add Card

Click **Person Management → Add** to enter the Add Person page.
Click **Add Card**, enter the **Card No.** and select the **Property**, and click **OK** to add the card.

Note

Up to 50 cards can be added.

Click **Save** to save the settings.

Authentication Settings

Click **Person Management → Add** to enter the Add Person page.
Set **Authentication Type** as **Same as Device** or **Custom**.
Click **Save** to save the settings.

Import/Export Person Data

Export Person Data

You can export added person data for back-up or importing to other devices.

Click **Export Person Data**, set an encryption password and confirm it. Click **OK**.

Note

- The person data will be downloaded to your PC.
- The password you set will be required for importing the data file.

Importing Person Data

Click **Importing Person Data** and select the file. Click **Import**.

Enter the encryption password to import and synchronize the person data to devices.

Note

- Please ensure the name of the imported file is "UserDataFile".

7.4 Search Event

Click **Event Search** to enter the Search page.

Select event types, major type and sub type. Enter the search conditions, including the employee ID, the name, the card No., the start time, and the end time, and click **Search**.

The results will be displayed on the right panel.

7.5 Configuration

7.5.1 View Device Information

View the device name, device No., language, model, serial No., version, number of channels, IO input, IO output, lock, alarm input, alarm output, and device capacity, etc.

Click **Configuration → System → System Settings → Basic Information** to enter the configuration page.

You can view the language, model, serial No., version, IO input, IO output, local RS-485, alarm input and alarm output number.

You can change **Device Name** and click **Save**.

Click **Upgrade** to upgrade the firmware version.

You can view the device capacity, including person, card and event.

7.5.2 Set Time

Set the device's time zone, synchronization mode, server address, NTP port, and interval.

Click **Configuration → System → System Settings → Time Settings** .

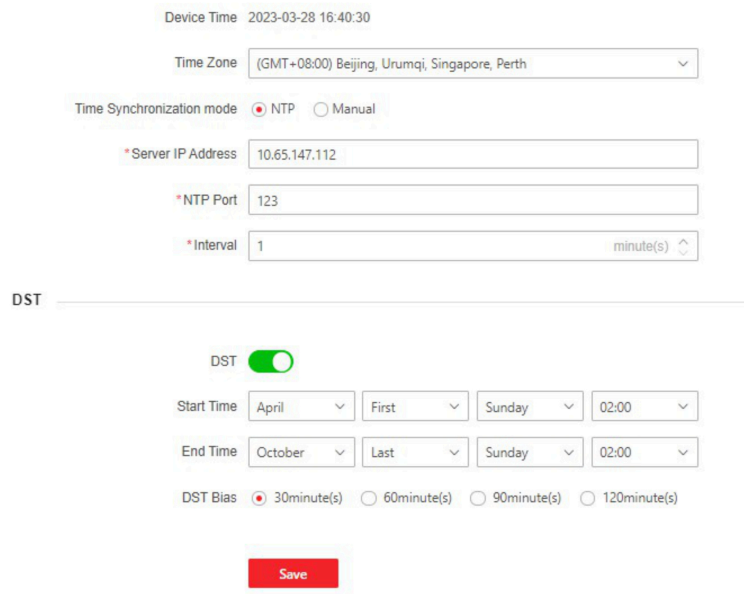


Figure 7-2 Time Settings

Click **Save** to save the settings after the configuration.

Time Zone

Select the device located time zone from the drop-down list.

Time Sync.

Manual

By default, the device time should be synchronized manually. You can set the device time manually or check **Sync. with Computer Time** to synchronize the device time with the computer's time.

Server IP Address/NTP Port/Interval

You can set the server IP address, NTP port, and interval.

7.5.3 Set DST

Steps

1. Click **Configuration → System → System Settings → Time Settings** .
2. Enable **DST**.
3. Set the DST start time, end time and bias time.
4. Click **Save** to save the settings.

7.5.4 Change Administrator's Password

Steps

1. Click **System and Maintenance → System Configuration → System → User Management → User Management** .
2. Click .
3. Enter the old password and create a new password.
4. Confirm the new password.
5. Click **Save**.

Caution

The password strength of the device can be automatically checked. We highly recommend you change the password of your own choosing (using a minimum of 8 characters, including at least three kinds of following categories: upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you change your password regularly, especially in the high security system, changing the password monthly or weekly can better protect your product.
Proper configuration of all passwords and other security settings is the responsibility of the service provider and/or end-user.

7.5.5 Online Users

The information of users logging into the device is shown.

Go to **Configuration → User Management → Online Users** to view the list of online users.

7.5.6 View Device Arming/Disarming Information

View device arming type and arming IP address.

Click **Configuration → System → User Management → Arming/Disarming Information** .

You can view the device arming/disarming information. Click **Refresh** to refresh the page.

7.5.7 Network Settings

Set Basic Network Parameters

Click **Configuration → Network → Network Settings → TCP/IP** .

You can view the mac address and MTU.

Set the parameters and click **Save** to save the settings.

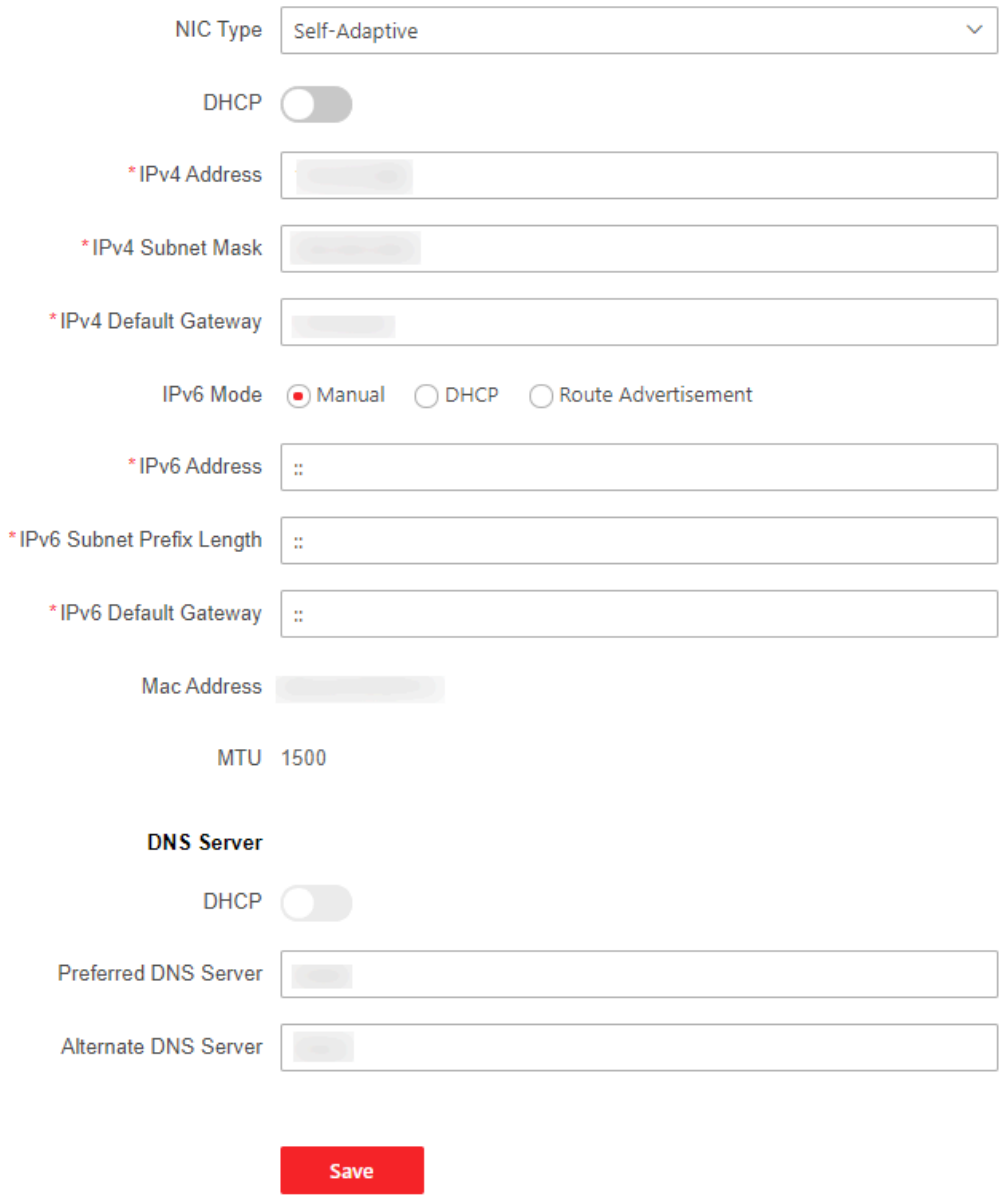


Figure 7-3 Set TCP/IP

NIC Type

Select a NIC type from the drop-down list. By default, it is **Auto**.

DHCP

If uncheck the function, you should set the IPv4 address, IPv4 subnet mask, IPv4 default gateway, Mac address, and MTU.

If you check the function, the system will allocate the IPv4 address, IPv4 subnet mask, the IPv4 default gateway automatically.

DNS Server

Note

Only when DHCP is enabled can DNS server be set.

Set the preferred DNS server and the alternate DNS server according to your actual need.

IPv6 Mode

Manual

Set the IPv6 address, IPv6 subnet prefix length and IPv6 default gateway manually.

DHCP

The system will allocate the IPv6 address, IPv6 subnet prefix length and IPv6 default gateway automatically.

Route Advertisement

A mechanism for automatic address configuration in the IPv6 protocol stack. The device can complete IPv6 address configuration as long as there are routers in the environment that can provide routing notification messages.

Click **View Route Advertisement** to view the IPv6 address list.

Set Port Parameters

Set the HTTP, HTTPS, HTTP Listening parameters.

Click **Configuration → Network → Network Service → HTTP(S)** .

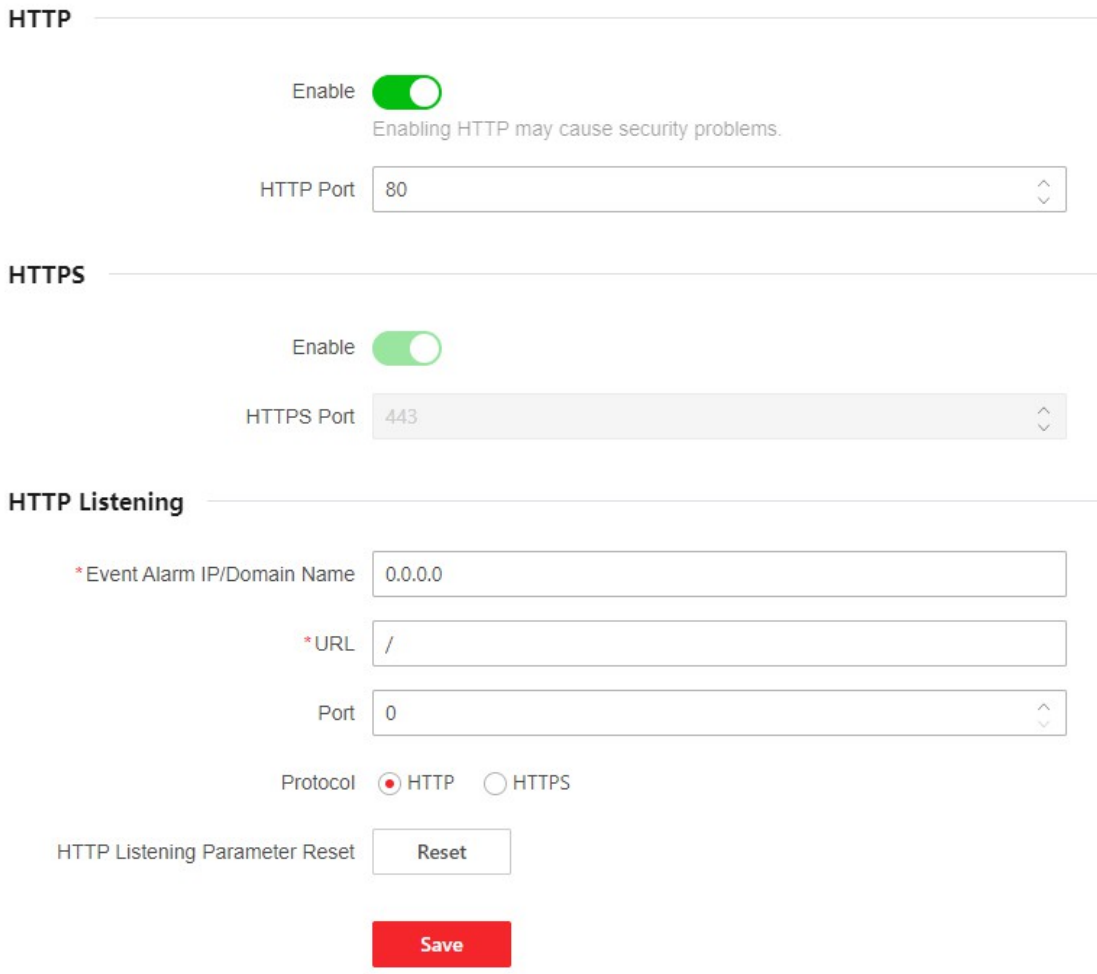


Figure 7-4 Set Port

HTTP

It refers to the port through which the browser accesses the device. For example, when the HTTP Port is modified to 81, you need to enter ***http://192.0.0.65:81*** in the browser for login.

HTTPS

Set the HTTPS for accessing the browser. Certificate is required when accessing.

HTTP Listening

The device can send alarm information to the event alarm IP address or domain name via HTTP protocol/HTTPS protocol. Edit the event alarm IP address or domain name, URL, port, and protocol.

Note

The event alarm IP address or domain name should support the HTTP protocol/HTTPS protocol to receive the alarm information.

You can also click **Reset** to reset the HTTP listening parameters.

Set Network Penetration Service

When the device is deployed on the LAN, penetration service can be enabled to achieve remote device management.

Steps

1. Click **Configuration → Network → Network Service → Network Penetration Service** .
2. Click to **Enable Penetration Service**.
3. Enter **Server IP Address** and **Server Port**.
4. Enter login **User Name** and **Password**.
5. Set **Heartbeat Timeout**. The range is1 to 6000.
6. Click **Save**.
7. You can view **Online Status**. Click **Refresh** to view the latest status.

Set OTAP

Connect the device to the platform through the OTAP protocol to obtain device information, upload operation status and alarm information, restart and upgrade the device.

Steps

1. Click **Configuration → Network → Device Access → OTAP** .

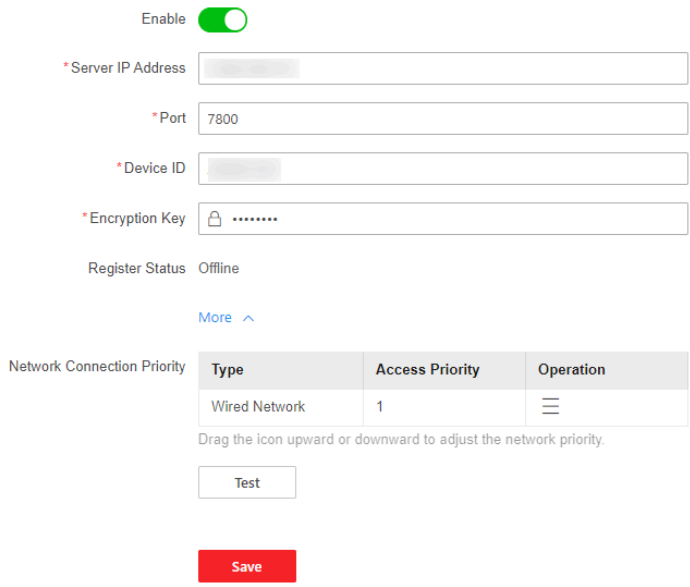


Figure 7-5 Set OTAP

2. Click to **Enable** OTAP.
3. Set **Server IP Address**, **Port**, **Device ID** and **Encryption Key**.
4. Click **Test** to ensure the device can connect to the server and register successfully. Refresh the page or restart the device to see the **Register Status**.
5. Click **More** to view the network type and access priority. Drag the operation icon upward or downward to adjust the network priority.
6. Click **Save**.

Platform Access

Platform access provides you an option to manage the devices via platform.

Steps

1. Click **Configuration → Network → Device Access → Hik-Connect** to enter the settings page.

   Note

   Hik-Connect is an application for mobile devices. With the App, you can view live image of the device, receive alarm notification and so on.

2. Click the slider to enable the function.
3. **Optional:** Check the checkbox of **Custom**, and you can set the server address by yourself.
4. View the register status, and click **Refresh** to view the latest status.
5. Click **Save** to enable the settings.
6. View the account binding status, and click **Refresh** to view the latest status.
7. Bind the account.

- Binding via Code: Click **View** to view device QR code. Scan the QR code to bind the account.
- Manual Binding: View account verification code by the path: Phone APP-My-Account. Enter the **User Token**, and click **Bind** to bind the account.

7.5.8 Set Audio Parameters

Set the audio parameters.

Click **Configuration → Video/Audio → Audio** .

Set the output volume, and enable voice prompt according to your needs.

Click **Save** to save the settings.

7.5.9 Event Linkage

Set linked actions for events.

Steps

1. Click **Configuration → Event → Event Detection → Linkage Settings** to enter the page.
2. Set event source.
   - If you choose **Linkage Type** as **Event Linkage**, you need to select event types from the drop-down list.
   - If you choose **Linkage Type** as **Card Linkage**, you need to enter the card No. and select the card reader.
   - If you choose **Linkage Type** as **Link Employee ID**, you need to enter the employee ID and select the card reader.
3. Set linkage action.

   Buzzer Linkage

   Enable **Buzzer Linkage** and select **Start Buzzing** or **Stop Buzzing** for the target event.

   Door Linkage

   Enable **Linked Door**, check **Entrance** or **Exit**, and set the door status for the target event.

   Linked Alarm Output

   Enable **Linked Alarm Output**, check **Alarm Output 1** or **Alarm Output 2**, and set the alarm output status for the target event.

   Linkage Audio Prompt

   Enable **Linked Audio Prompt** and select the play mode.

   - If you choose **TTS**, you need to select the play mode, set language and enter the prompt content.
   - If you choose **Audio File**, you need to select the play mode, and select an available audio file from the drop-down list or click **General Linkage Settings** to add a new audio file.
4. Click **Save** to save the settings.

7.5.10 Access Control Settings

Set Authentication Parameters

Click **Configuration → Access Control → Authentication Settings** .

Note

The functions vary according to different models. Refers to the actual device for details.

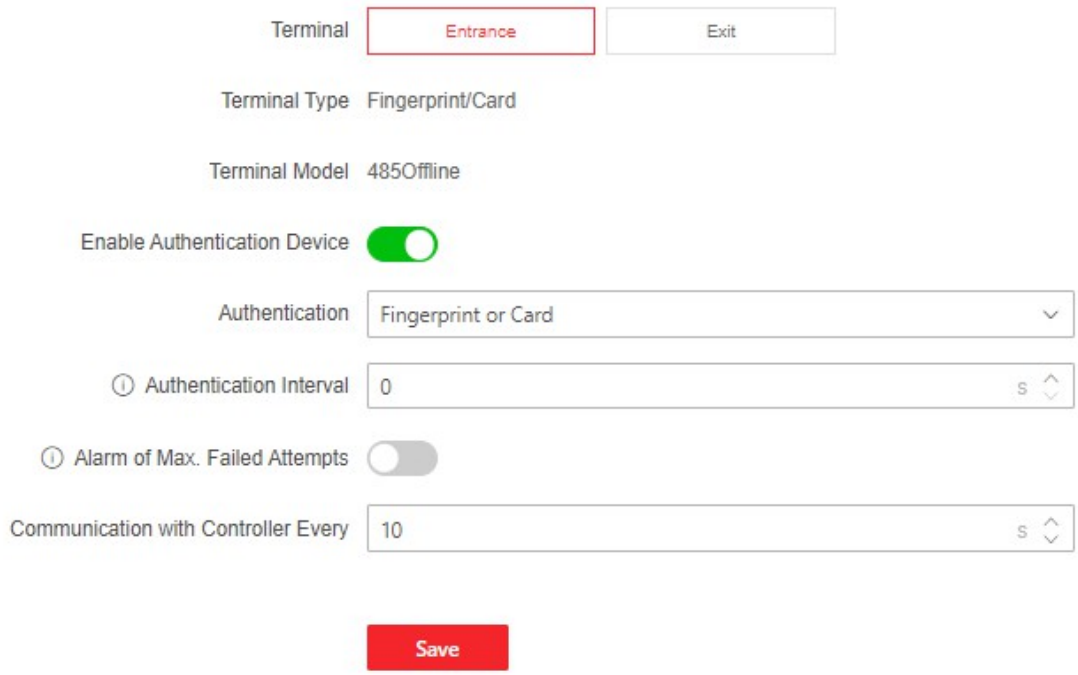


Figure 7-6 Set Authentication Parameters

Click **Save** to save the settings after the configuration.

Terminal

Choose **Entrance** or **Exit** for settings.

Terminal Type/Terminal Model

Get terminal description. They are read-only.

Enable Authentication Device

Enable the authentication function.

Authentication

Select an authentication mode according to your actual needs from the drop-down list.

Authentication Interval

You can set the authentication interval of the same person when authenticating. The same person can only authenticate once in the configured interval. A second authentication will be failed.

Alarm of Max. Failed Attempts

Enable to report alarm when the card reading attempts reach the set value.

Max. Authentication Failed Attempts

Enable to report alarm when the card reading attempts reach the set value.

Communication with Controller Every

When the access control device cannot connect with the card reader for longer than the set time, the card reader will turn offline automatically.

Note

The authentication interval value ranges from 2 s to 255 s.

Set Door Parameters

Click **Configuration → Access Control → Door Parameters** .

Click **Save** to save the settings after the configuration.

Door No.

Select **Entrance** or **Exit** for settings.

Door Name

You can create a name for the door.

Open Duration

Set the door unlocking duration. If the door is not opened for the set time, the door will be locked.

Note

The open duration ranges from 5 s to 60 s.

Exit Button Type

You can set the exit button as **Remain Open** or **Remain Closed** according to your actual needs. By default, it is **Remain Open**.

Door Remain Open Duration with First Person

Set the door open duration when first person is in. After the first person is authorized, it allows multiple persons access the door or other authentication actions.

Serial Port Settings

Set serial port parameters.

Steps

1. Click **Configuration → Access Control → Serial Port Configuration** .

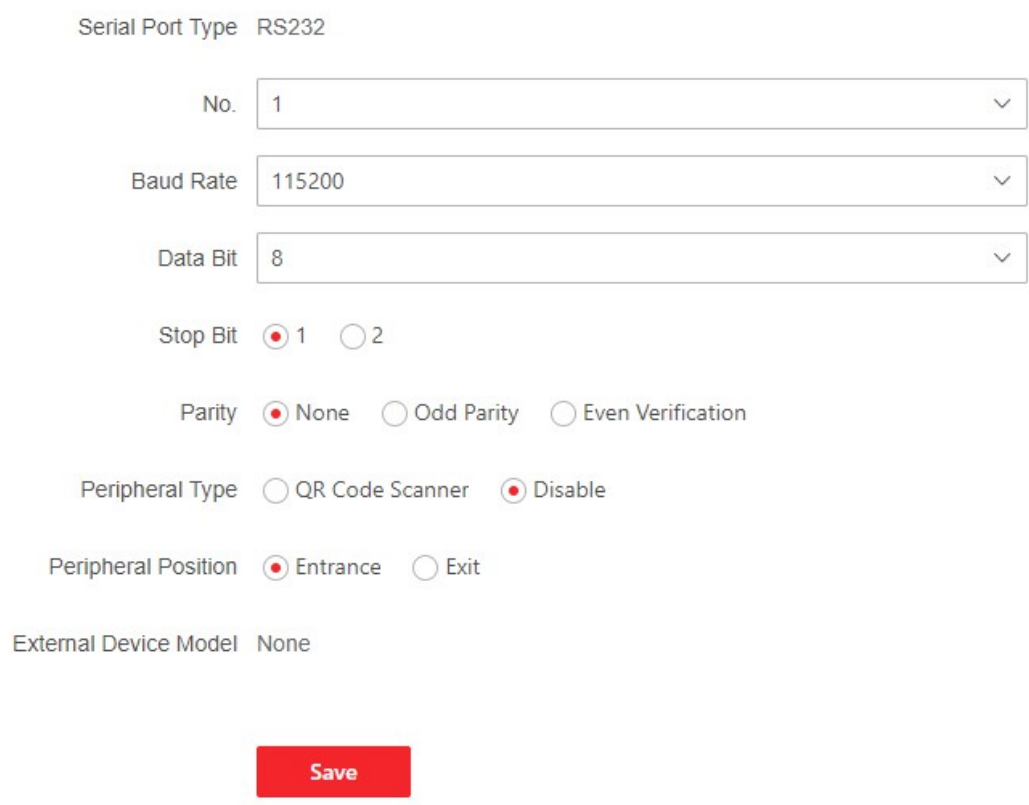


Figure 7-7 Serial Port Configuration

2. Select a serial port No., and the corresponding serial port type will display automatically.
3. Set the serial port parameters.

Baud Rate

Configure data transfer rate.

Data Bit

Configure the number of bits to send data.

Stop Bit

Select the end point for one frame of data.

Parity

Select the serial communication error detection principle. You can choose to detect that the number of 1 of the data bits and check digits is odd or even, or that there is no check digit.

4. Set the **Peripheral Type**.
5. Set the **Peripheral Position** as **Entrance** or **Exit**.
6. You can view the external device model.
7. Click **Save**.

Set Wiegand Parameters

You can set the Wiegand transmission direction.

Steps

Note

Some device models do not support this function. Refer to the actual products when configuration.

1. Click **Configuration → Access Control → Wiegand Settings** .
2. Select **Entrance** or **Exit**.
3. Enable **Wiegand** function.
4. The wiegand transmission direction is set **Input** by default.

   Note

   Input: the device can connect a Wiegand card reader.
5. Select **Wiegand Mode**.
6. Click **Save** to save the settings.

   Note

   If you change the peripheral, and after you save the device parameters, the device will reboot automatically.

Set Terminal Parameters

Set the working mode and remote verification.

Steps

1. Click **Configuration → Access Control → Terminal Parameters** to enter the page.

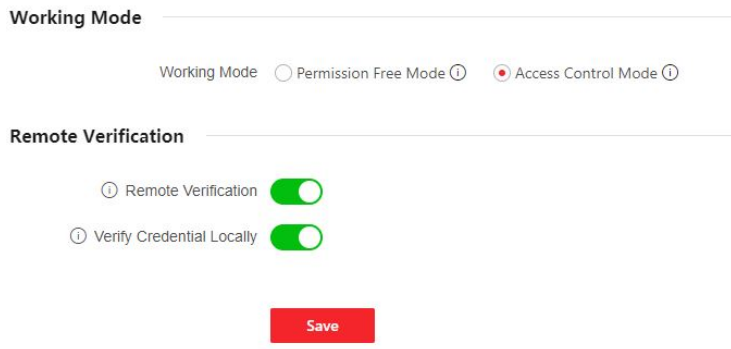


Figure 7-8 Terminal Parameters

2. Set the device working mode.

Permission Free Mode

The device will not verify the person's permission, but only the person's validity period. If the person is in the validity period, the barrier will open.

You can enable **Verify Credential Locally**. After enabling the function, the device will only verify the person's permission without the schedule template, etc.

Access Control Mode

The device works normally and will verify the person's permission to open the barrier.

3. Set remote verification.

1) Enable **Remote Verification**.

Note

The device will upload the person's authentication information to the platform. The platform will judge to open the barrier or not.

2) **Optional:** Enable **Verify Credential Locally**.

Note

After enabling the function, the device will only verify the person's permission without the schedule template, etc.

4. Click **Save** to complete terminal parameter settings.

7.5.11 Turnstile

Basic Parameters

Set turnstile basic parameters.

Steps

1. Click **Configuration → Turnstile → Basic Parameters** to enter the page.

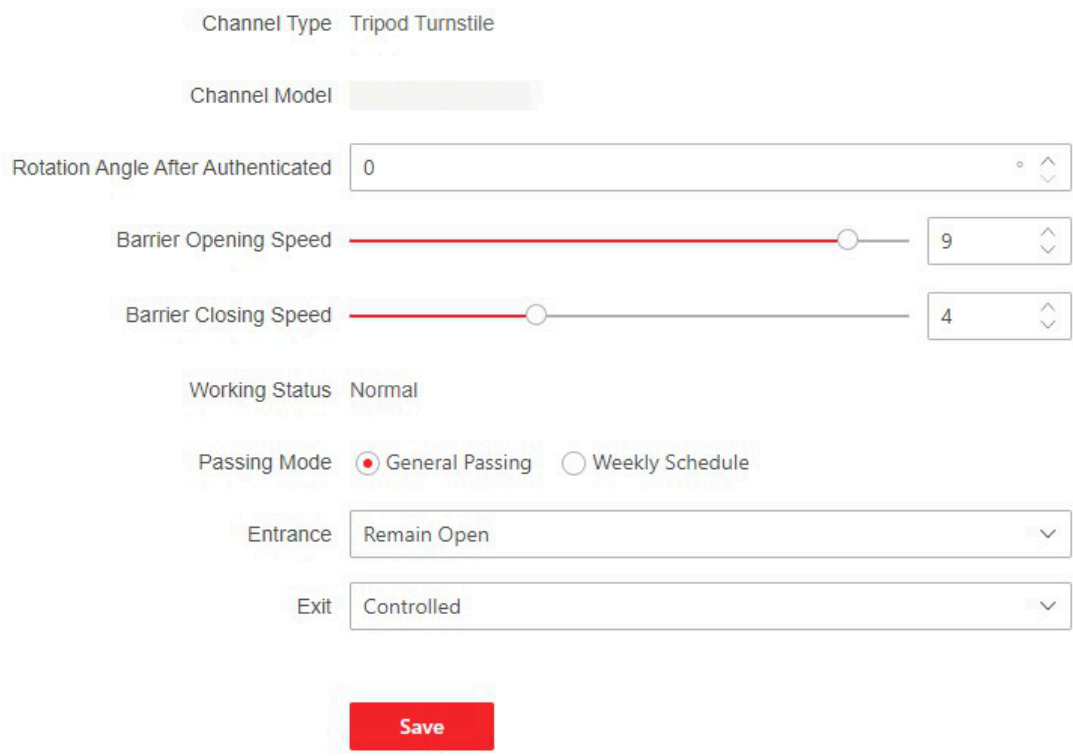


Figure 7-9 Basic Parameters

2. View the **Channel Type**, **Channel Model** and **Working Status**.
3. Set **Rotation Angle After Authenticated**. When authenticated, the arm will rotate the degree to inform users.
4. Set **Barrier Opening Speed** and **Barrier Closing Speed**.
5. Set the passing mode.
   - If you choose **General Passing**, you can select the barrier status for the entrance and exit from the drop-down list.
   - If you choose **Weekly Schedule**, you can set a weekly schedule for entrance and exit barriers.
6. Click **Save**.

keyfob

Set keyfob parameters.

Steps

1. Click **Configuration → Turnstile Configuration → Keyfob** to enter the page.
2. View the keyfob working status.
3. Set **Working Mode** as **One-to-One** or **One-to-Many**.

4. Add keyfob.
   1) Click **Add** and the keyfob adding window will pop up.
   2) Enter the **Name** and **Serial No.**.
   3) Check to enable **Permission for Remaining Open** at your actual needs.
   4) Click **OK** to add the keyfob.
5. **Optional:** Select a keyfob and click **Delete** to delete the keyfob.
6. Click **Save**.

People Counting

Set people counting.

Steps

1. Click **Configuration → Turnstile → People Counting** to enter the page.

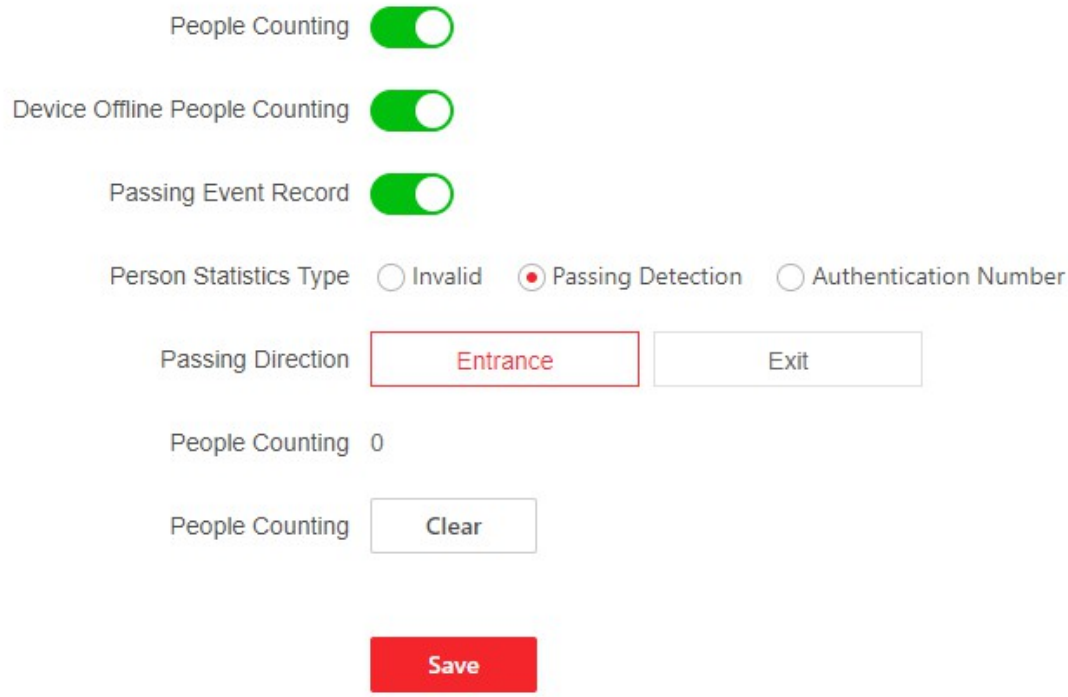


Figure 7-10 People Counting

2. Enable **People Counting**.
3. Enable **Device Offline People Counting**, the device will count people numbers even if it is offline.
4. Select **People Statistics Type**.

   Invalid

   Disable people counting.

   Passing Detection

The number of all passing people.

Authentication Number

The number of passing people verified through card swiping, face recognition, etc.

5. Select passing direction and view people counting results of entrance or exit.
6. **Optional:** Click **Clear** to clear all the people counting information.

Set Light

Set the lane status indicator and barrier light for the device.

Steps

1. Click **Configuration → Turnstile → Light Settings** to enter the page.
2. Set light color for lane status indicator.
   1) Drag the block or enter the value to adjust the light brightness manually.
   2) Set color for remain open, remain closed and controlled.
3. Click **Save**.

Other Settings

Set other parameters.

Steps

1. Click **Configuration → Turnstile → Other Settings** to enter the page.
2. Set parameters.

Alarm Output Duration

The alarm output duration ranges from 0 s to 3599 s. 0 indicates continuous output.

Temperature Unit

Select unit.

Light Board Brightness

Drag the block or enter the value to adjust the brightness. The larger the value, the brighter the light becomes.

Alarm Buzzing Duration

Set the duration of alarm sound.

Inductive Passing Mode

When enabled, the arm will rotate automatically when the infrared detector on one side of the turnstile is triggered.

Memory Mode

Multiple cards presenting for multiple person passing is allowable when enabling the memory mode. When the passing person's number exceeds the card presenting number, or after the

latest person passing with no other person passing within the door open duration, the door will close automatically.

Fire Input Type

In the normally open state, closing triggers fire protection. In the normally closed state, disconnection triggers fire protection.

Anti-Reversal

When enabled, the arm cannot be reversed. When disabled, people can reverse the arm up to 38° after entering the lane.

3. Click **Save**.

7.5.12 Card Settings

Set Card Security

Click **Configuration → Card Settings → Card Type** to enter the settings page.

Set the parameters and click **Save**.

Enable NFC Card

Reserved.

Enable M1 Card

Enable M1 card and authenticating by presenting M1 card is available.

M1 Card Encryption

Sector

M1 card encryption can improve the security level of authentication.

Enable the function and set the encryption sector. By default, Sector 13 is encrypted. It is recommended to encrypt sector 13.

Enable EM Card

Enable EM card and authenticating by presenting EM card is available.

Note

If the peripheral card reader supports presenting EM card, the function is also supported to enable/disable the EM card function.

Enable DESFire Card

The device can read the data from DESFire card when enabling the DESFire card function.

DESFire Card Read Content

After enable the DESFire card content reading function, the device can read the DESFire card content.

Enable FeliCa Card

The device can read the data from FeliCa card when enabling the FeliCa card function.

Set Card No. Authentication Parameters

Set the card reading content when authenticate via card on the device.

Go to **Configuration → Card Settings → Card No. Auth. Settings** .

Select a card authentication mode and enable reversed card No. at your actual needs. Click **Save**.

7.5.13 Set Privacy Parameters

Set the event storage type.

Go to **Configuration → Security → Privacy Settings**

The event storage type is overwriting by default. The earliest 5% events will be deleted when the system detects the stored events has been over 95% of the full space.

7.5.14 Upgrade and Maintenance

Reboot device, restore device parameters, and upgrade device version.

Reboot Device

Click **Maintenance and Security → Maintenance → Restart** .

Click **Restart** to reboot the device.

Upgrade

Click **Maintenance and Security → Maintenance → Upgrade** .

Select an upgrade type from the drop-down list. Click and select the upgrade file from your local PC. Click **Upgrade** to start upgrading.

Note

Do not power off during the upgrading.

Restore Parameters

Click **Maintenance and Security → Maintenance → Backup and Reset** .

Restore All

All parameters will be restored to the factory settings. You should activate the device before usage.

Restore

The device will restore to the default settings, except for the network parameters and the user information.

Import and Export Parameters

Click **Maintenance and Security → Maintenance → Backup and Reset** .

Export

Click **Export** to export the device parameters.

Note

You can import the exported device parameters to another device.

Import

Click and select the file to import. Click **Import** to start import configuration file.

7.5.15 Device Debugging

You can set device debugging parameters.

Steps

1. Click **Maintenance and Security → Maintenance → Device Debugging** .
2. You can set the following parameters.

Enable SSH

To raise network security, disable SSH service. The configuration is only used to debug the device for the professionals.

Motor Study & Self-Test

Lane Studying: Click **Start**, the device will enter the study mode.

Motor Self-Test: Click **Start**, the motor will test the operation status automatically.

Encoder Self-Test: Click **Start**, the encoder will test the operation status automatically.

Print Log

Select object, and click **Export** to export log of the object.

Capture Network Packet

You can set the **Capture Packet Duration**, **Capture Packet Size**, and click **Start Capture** to capture network data.

Debug Command Management

Select the command type, select quick command or enter custom command, and select the board type. Click **Send** to send the command.

View the received information in the execution result box.

Click **End Debugging**, the device returns to normal operating state.

7.5.16 Component Status

You can view the status of different components.

Main Lane Status

Device Component

You can view the status of the access control board, lane control board, etc.

Peripheral

You can view the status of the RS-485 card reader.

Temperature

You can view the pedestal temperature.

Movement

You can view the working status of motor encoder.

Others

Passing Mode

You can view the entrance and exit mode.

Input and Output Status

You can view the status of the event input, alarm output and fire alarm.

Other Status

You can view the status of the barrier and the keyfob receiving module.

7.5.17 Log Query

You can search and view the device logs.

Go to **Maintenance and Security → Maintenance → Log** .

Set the major and minor type of the log type. Set the start time and end time for searching, and click **Search**.

The results will be displayed below, which including the No., time, the major type the minor type, the channel No., the local/remote user information, the remote host IP, etc.

7.5.18 Certificate Management

It helps to manage the server/client certificates and CA certificate.

Note

The function is only supported by certain device models.

Create and Import Self-signed Certificate

Steps

1. Go to **System and Maintenance → Safe → Certificate Management** .
2. In the **Certificate Files** area, select a **Certificate Type** from the drop-down list.
3. Click **Create**.
4. Input certificate information.
5. Click **OK** to save and install the certificate.

   The created certificate is displayed in the **Certificate Details** area.

   The certificate will be saved automatically.
6. Download the certificate and save it to an asking file in the local computer.
7. Send the asking file to a certification authority for signature.
8. Import the signed certificate.
   1) Select a certificate type in the **Import Key** area, and select a certificate from the local, and click **Import**.
   2) Select a certificate type in the **Import Communication Certificate** area, and select a certificate from the local, and click **Import**.

Import Other Authorized Certificate

If you already has an authorized certificate (not created by the device), you can import it to the device directly.

Steps

1. Go to **System and Maintenance → Safe → Certificate Management** .
2. In the **Import Key** and **Import Communication Certificate** areas, select certificate type and upload certificate.
3. Click **Import**.

Import CA Certificate

Before You Start

Prepare a CA certificate in advance.

Steps

1. Go to **System and Maintenance → Safe → Certificate Management** .
2. Create an ID in the **Import CA Certificate** area.

Note

The input certificate ID cannot be the same as the existing ones.

3. Upload a certificate file from the local.
4. Click **Import**.

Chapter 8 Configure the Device via the Mobile Browser

8.1 Login

You can login via mobile browser.

Note

Make sure the device is activated.

Enter the device IP address in the address bar of the mobile browser and press **Enter** to enter the login page.

Enter the device user name and the password. Click **Login**.

8.2 Overview

You can view the device status, conduct remote control, etc.

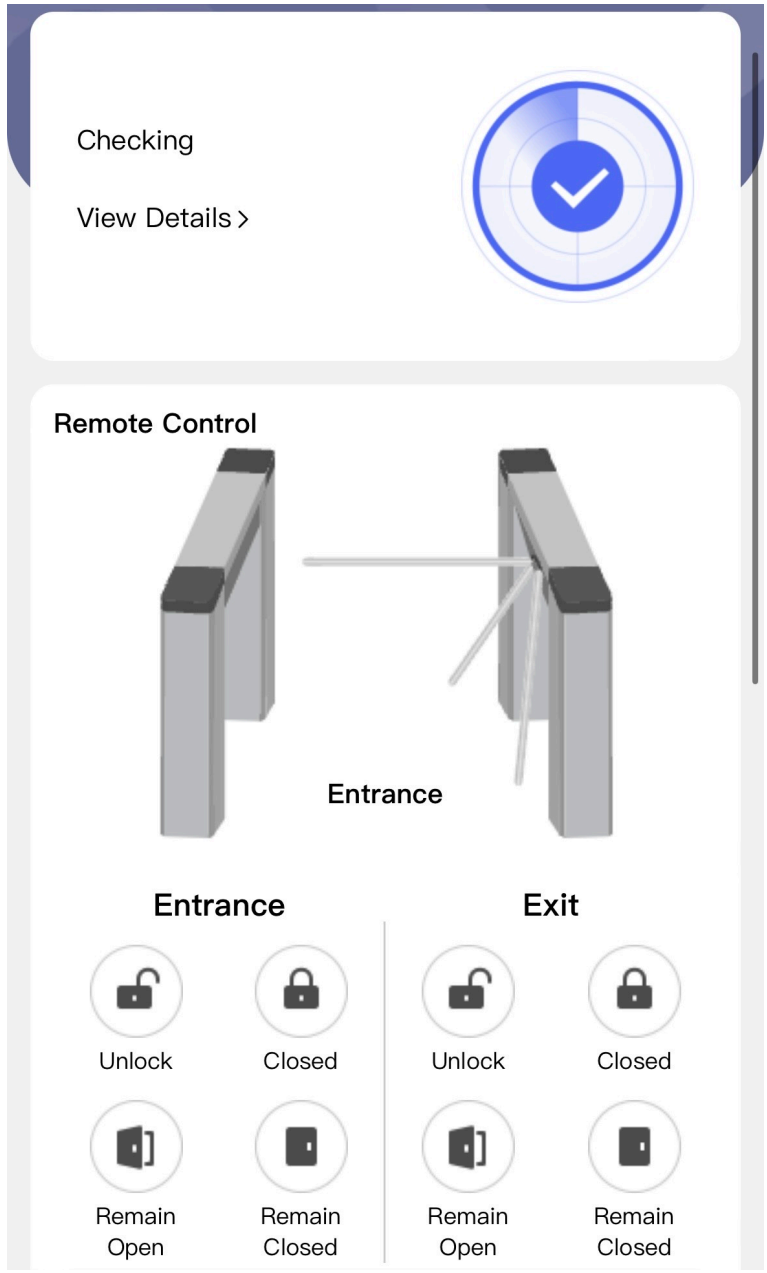


Figure 8-1 Status and Remote Control

You can view the device status. If there is exception, you can tap to view the component details. You can remotely control barrier by tap the icons.

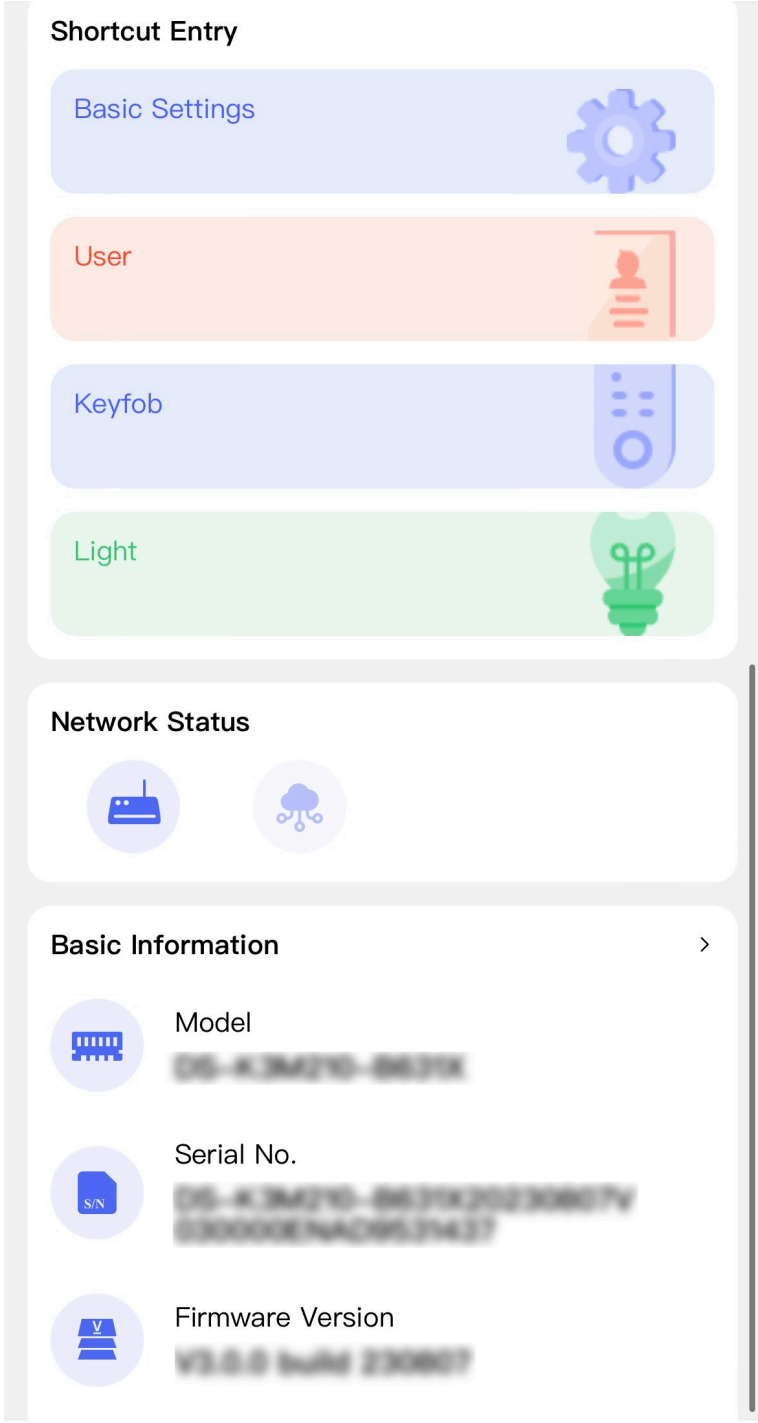


Figure 8-2 Shortcut Entry and Basic Information

You can tap to fast enter the basic settings page, user page, keyfob page, light page and network page.

You can view model, serial No. and firmware version, and you can tap to fast enter the basic information page.

8.3 Configuration

8.3.1 Turnstile Basic Parameters

You can set the basic parameters of the turnstile.

Tap **Basic Settings** of the shortcut entry on the overview page.

Set **Opening Barrier Speed** and **Closing Barrier Speed**.

Set **Rotation Angle After Authenticated**. When authenticated, the arm will rotate the degree to inform the user.

Set the regular passing mode for the entrance and exit.

Tap **Save**.

8.3.2 Person Management

You can add, edit, delete, and search person via mobile Web browser.

Steps

1. Tap **User** of the shortcut entry or tap → **Person Management** to enter the settings page.

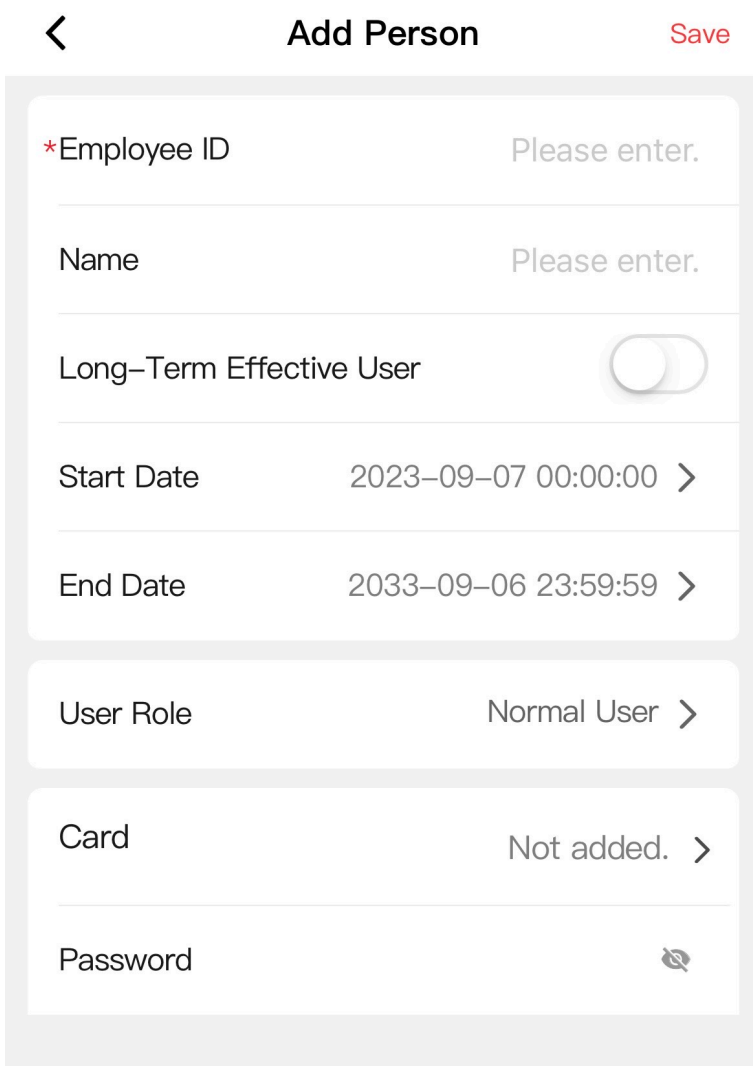


Figure 8-3 Add Person

2. Add person.

1) Tap**+**.

2) Set the following parameters.

Employee ID

Enter the employee ID. The Employee ID cannot be 0 or exceed 32 characters. It can be a combination of uppercase, lowercase letters and numbers.

Name

Enter your name. The name supports numbers, uppercase and lowercase English, and characters. The name is recommended to be within 32 characters.

Long-Term Effective User

Set the user permission as long-term effective.

Start Date/End Date

Set **Start Date** and **End Date** of user permission.

User Role

Select your user role.

Card

Add card. Tap **+**. Enter the **Card No.**, and select the **Card Type**. Tap **Save** to add the card.

Password

Enter the password. The password only supports numbers of 0 to 8 characters.

3) Tap **Save**.

3. Tap the user that needs to be edited in the user list to edit the information.
4. You can search the user by entering the employee ID in the search bar.

8.3.3 Keyfob Settings

Tap **Keyfob** of the shortcut entry on the overview page.

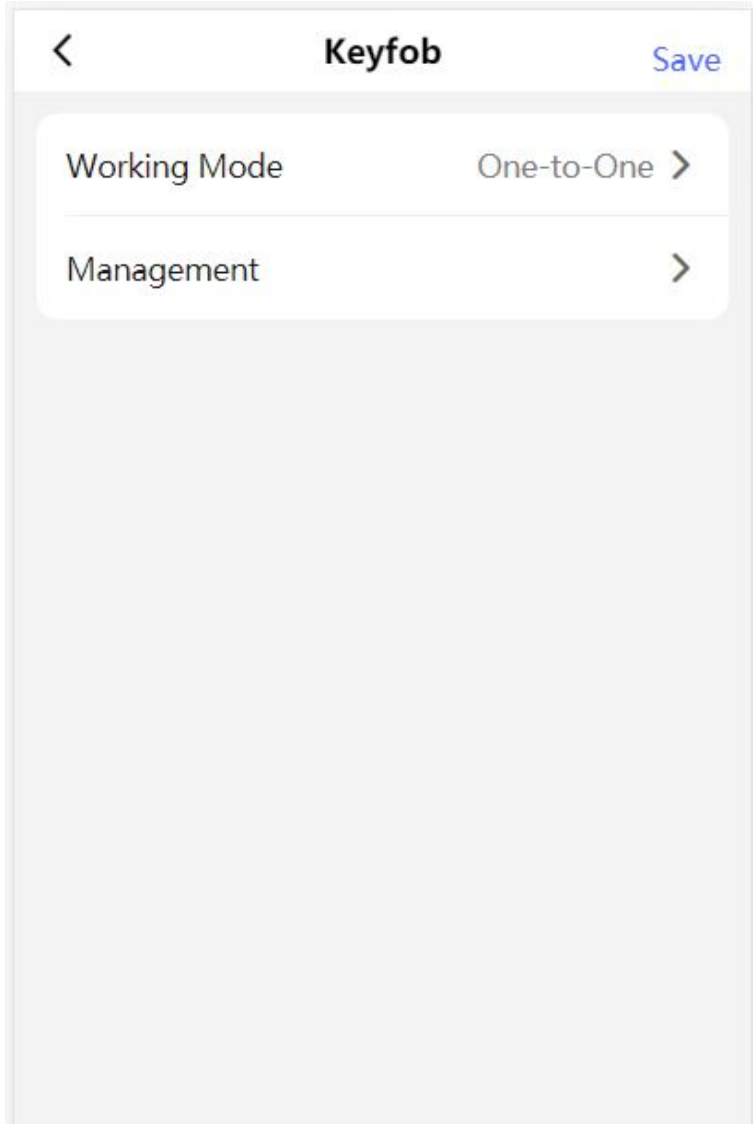


Figure 8-4 Keyfob Settings

Set **Working Mode** as **One-to-One** or **One-to-Many**.

Tap **Management** to enter the page. Tap **+** to add keyfob. Set keyfob name, serial No. and remain open permission.

8.3.4 Light Settings

Tap **Light** of the shortcut entry on the overview page.

Lane Status Indicator

Enter the value to adjust the light brightness manually.
Set remain open, remain closed and controlled light color.

Tap **Save**.

8.3.5 View Device Basic Information

You can view the device name, language, model, serial No., version, and Mac address, etc.

Tap → **System Settings** → **Basic Information** .

You can change the device name.

You can view the device language, model, serial No., version, local RS-485 number, number of alarm input, number of alarm output, Mac address and factory information, etc.

Tap **Device Capacity** to view the quantity and capacity of person, card and event.

Tap **Save**.

8.3.6 Time Settings

View current time and set the time zone.

Tap → **System Settings** → **Time Settings** .

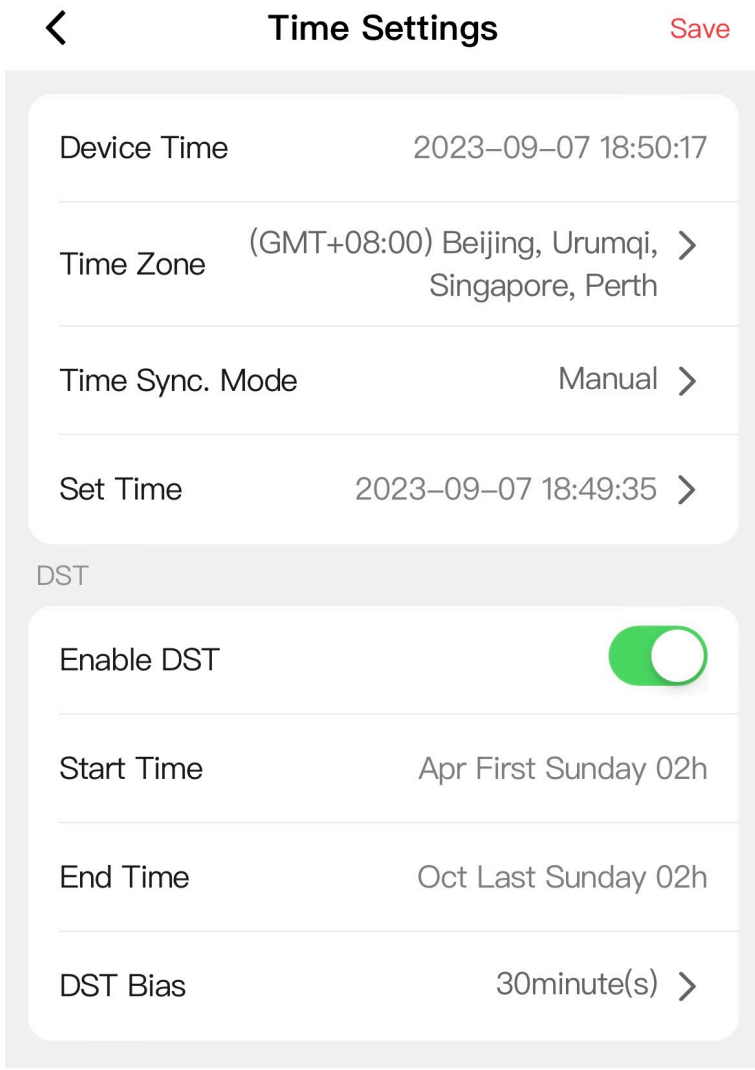


Figure 8-5 Time Settings

Device Time

You can view current time.

Time Zone

Select the time zone where the device is located from the drop-down list.

Time Sync. Mode

Manual

By default, the device time should be synchronized manually. You can set the device time manually.

NTP

Set the NTP server's IP address, port No., and interval.

DST

Slide to enable DST, and set the start time, end time and DST bias.

Tap **Save**.

8.3.7 User Management

You can change user password.

Tap → **User Management** on the home page.

Tap the user, enter the old password and create a new password, and confirm the password.

Tap **Save**.

8.3.8 Network

Wired Network

Set wired network.

Tap → **Communication Settings** → **Wired Network** to enter the configuration page.

NIC Type

Select a NIC type from the drop-down list.

DHCP

If you disable the function, you should set the IPv4 address, IPv4 subnet mask, IPv4 default gateway, IPv6 mode, IPv6 address, IPv6 subnet prefix length, IPv6 default gateway.

If you enable the function, the system will allocate the IPv4 address, IPv4 subnet mask, the IPv4 default gateway automatically.

MAC Address and MTU

You can view the default MAC address and MTU.

IPv6 Mode

Route Advertisement

The IPv6 address is generated by combining the route advertisement and the device Mac address.

Note

Route advertisement mode requires the support from the router that the device is connected to.

Manual

Enter **IPv6 Address**, **IPv6 Subnet Mask**, and **IPv6 Default Gateway**. Consult the network administrator for required information.

DHCP

The IPv6 address is assigned by the server, router, or gateway.

DNS Server

Note

Only when DHCP is enabled can DNS server be set.

Set the preferred DNS server and the alternate DNS server according to your actual need.

Set Port Parameters

You can set the HTTP, HTTPS according to actual needs when accessing the device via network.

Tap → **Network Service** → **HTTP(S)** to enter the setting page.

HTTP

It refers to the port through which the browser accesses the device. For example, when the HTTP Port is modified to 81, you need to enter ***http://192.0.0.65:81*** in the browser for login.

HTTPS

Set the HTTPS for accessing the browser. Certificate is required when accessing.

Platform Access

Platform access provides you an option to manage the devices via platform.

Steps

1. Tap → **Device Access** → **Hik-Connect** to enter the settings page.

   Note

   Hik-Connect is an application for mobile devices. With the App, you can view live image of the device, receive alarm notification and so on.

2. Slide to enable the function.
3. You can enable **Custom** to enter the server address.

   Note

   - 6 to 12 letters (a to z, A to Z) or numbers (0 to 9), case sensitive. You are recommended to use a combination of no less than 8 letters or numbers.

4. You can view **Register Status** and **Binding Status**.
5. You can tap **Bind An Account** → **View QR Code** , scan the QR code to bind an acount.
6. Tap **Save** to enable the settings.

Set OTAP Parameters

Connect the device to the platform through the OTAP protocol to obtain device information, upload operation status and alarm information, restart and upgrade the device.

Steps

1. Tap → **Device Access** → **OTAP** .

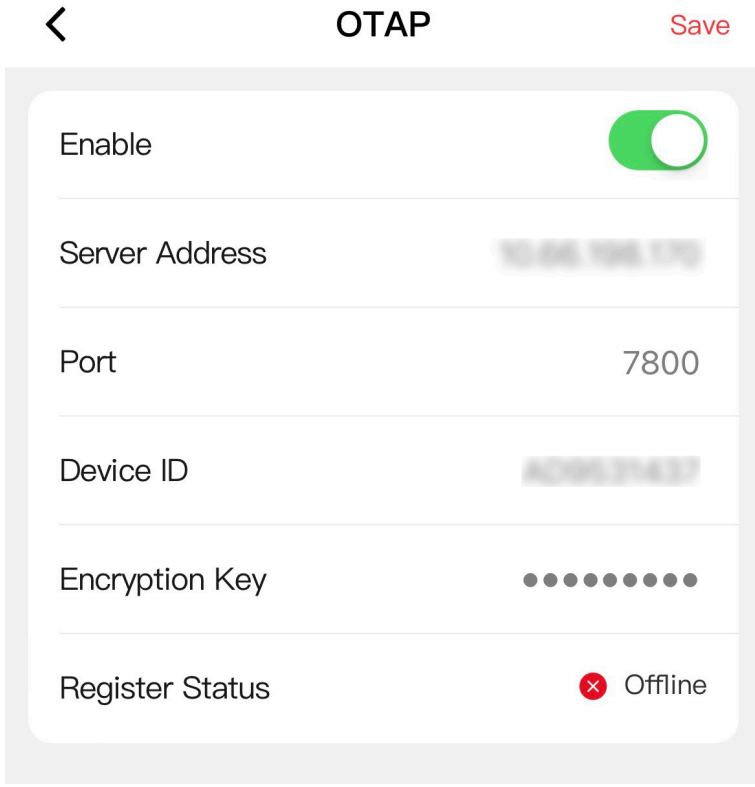


Figure 8-6 OTAP

2. Slide to **Enable**.
3. Set server address, port, device ID and encryption key.
4. Tap **Save**.

Result

Refresh the page or reboot the device, and you can view the **Register Status**.

8.3.9 Event Search

Tap → **Event Search** .

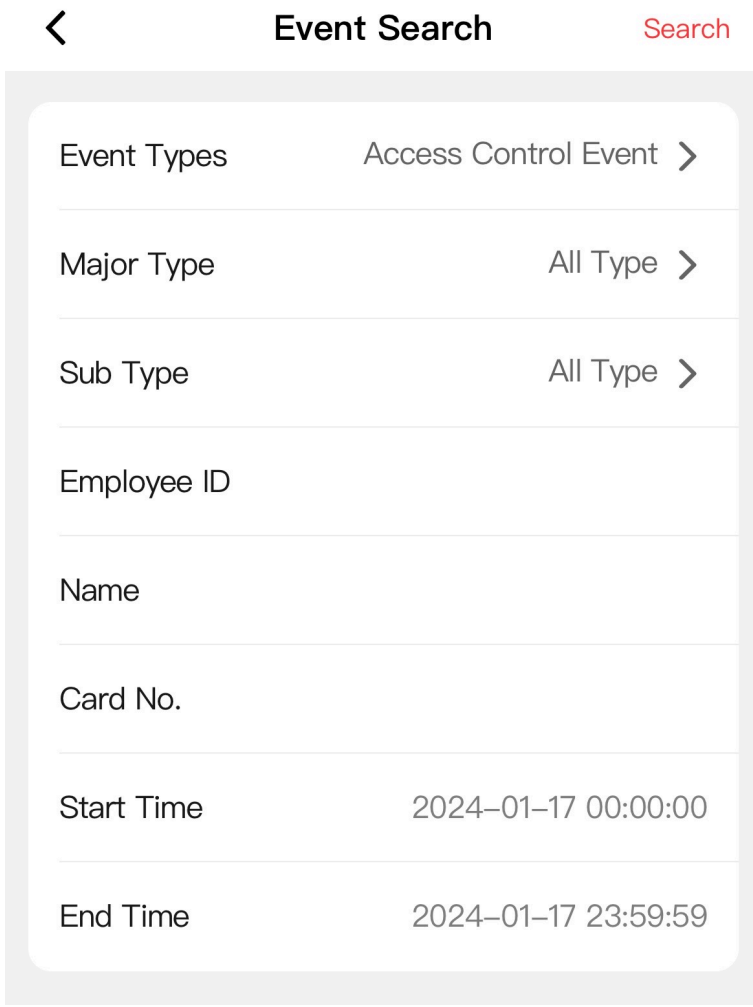


Figure 8-7 Event Search

Select event types, major type and sub type. Enter search conditions, including employee ID, name, card No., start time and end time. Tap **Search**.

Note

It supports searching for names within 128 digits.

The search results will be displayed in the list.

8.3.10 Set Audio

Set the device volume.

Steps

1. Tap → **Audio** to enter the settings page.

2. You can adjust the device output volume according to your actual needs.
3. You can enable voice prompt according to your actual needs.

8.3.11 Access Control Settings

Set Authentication Parameters

Set authentication parameters.

Steps

1. Tap → **Access Control** → **Authentication Settings** .

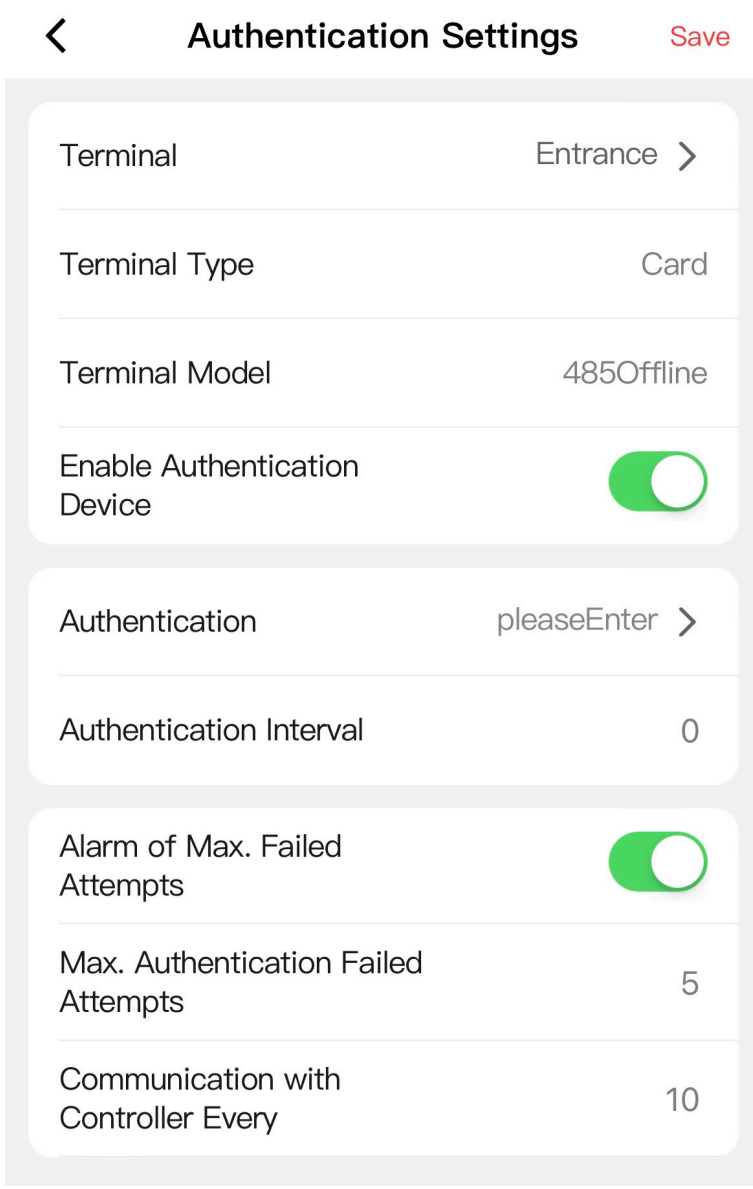


Figure 8-8 Authentication Settings

2. Tap **Save** after configuration.

Terminal

Choose **Entrance** or **Exit** for settings.

Terminal Type/Model

You can view the current terminal type and model.

Enable Authentication Device

The terminal can be used for card swiping normally when the function is enabled.

Authentication

Select an authentication mode according to your actual needs from the drop-down list.

Authentication Interval

You can set the authentication interval of the same person when authenticating. The same person can only authenticate once in the configured interval. A second authentication will be failed. If other people authenticate in the configured interval, this person can authenticate again.

Note

The configuration range is 0 to 255 s.

Alarm of Max. Failed Attempts

Enable to report alarm when the card reading attempts reach the set value.

Note

The configuration range is 1 to 10.

Communication with Controller Every

When the access control device cannot connect with the card reader for longer than the set time, the card reader will turn offline automatically.

Set Door Parameters

You can set door name, open duration and exit button parameters.

Tap → **Access Control** → **Door Parameters** .

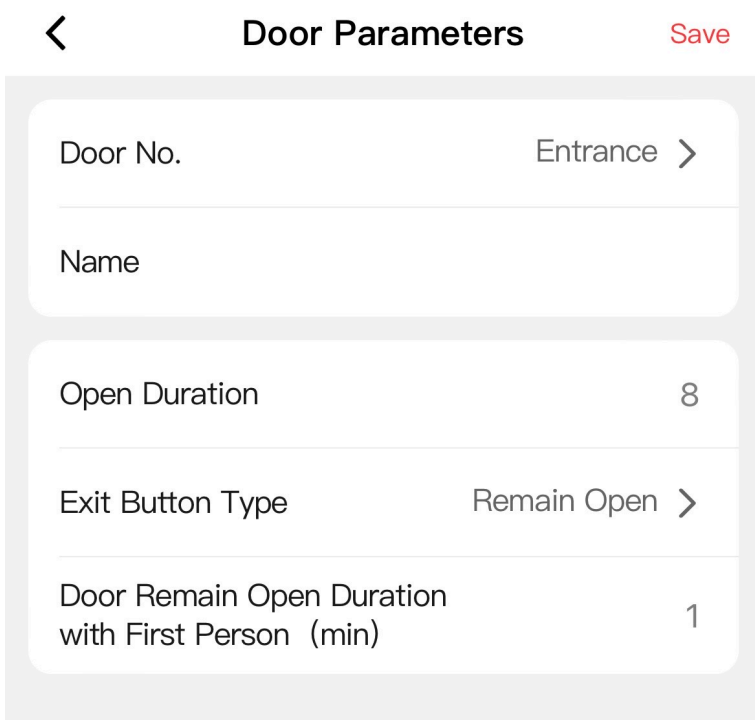


Figure 8-9 Door Parameters

Select entrance or exit for configuration, configure **Name** and **Open Duration**, and select **Exit Button Type**.

Configure **Door Remain Open Duration with First Person**. The mode is applicable for the passing of groups of persons, such as visitors entering the scenic spots. After the set person passes through, the door will open for a set time and other persons can pass through without authentication.

Click **Save** to save the settings after the configuration.

Terminal Settings

Set the working mode.

Tap → **Access Control** → **Terminal Parameters** to enter the settings page.

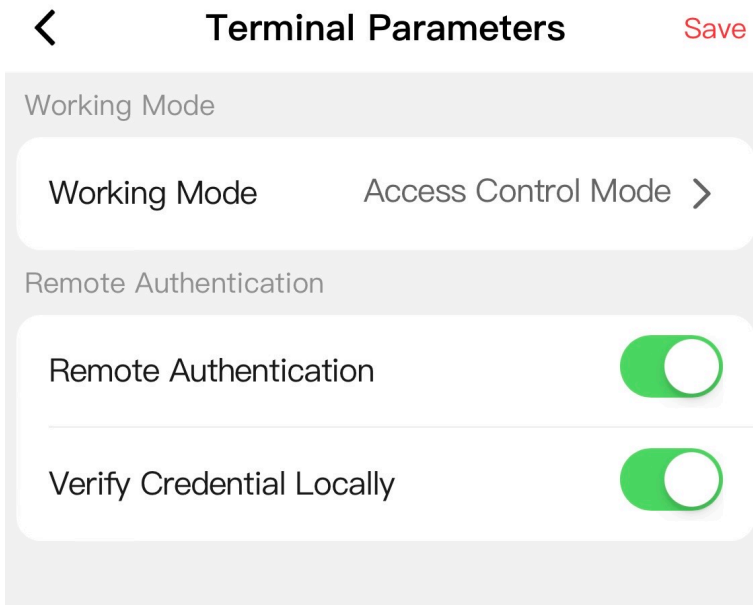


Figure 8-10 Terminal Parameters

Permission Free Mode

The device will not verify the person's permission, but only the person's validity period. If the person is in the validity period, the barrier will open.

You can enable **Verify Credential Locally**. After enabling the function, the device will only verify the person's permission without the schedule template, etc.

Access Control Mode

The device works normally and will verify the person's permission to open the barrier.

Remote Authentication

The device will upload the person's authentication information to the platform. The platform will judge to open the barrier or not.

Verify Credential Locally

The device will only verify the person's permission without the schedule template, etc.

Set Card Security

Configure cards for the device.

Tap → **Access Control** → **Card Security** .

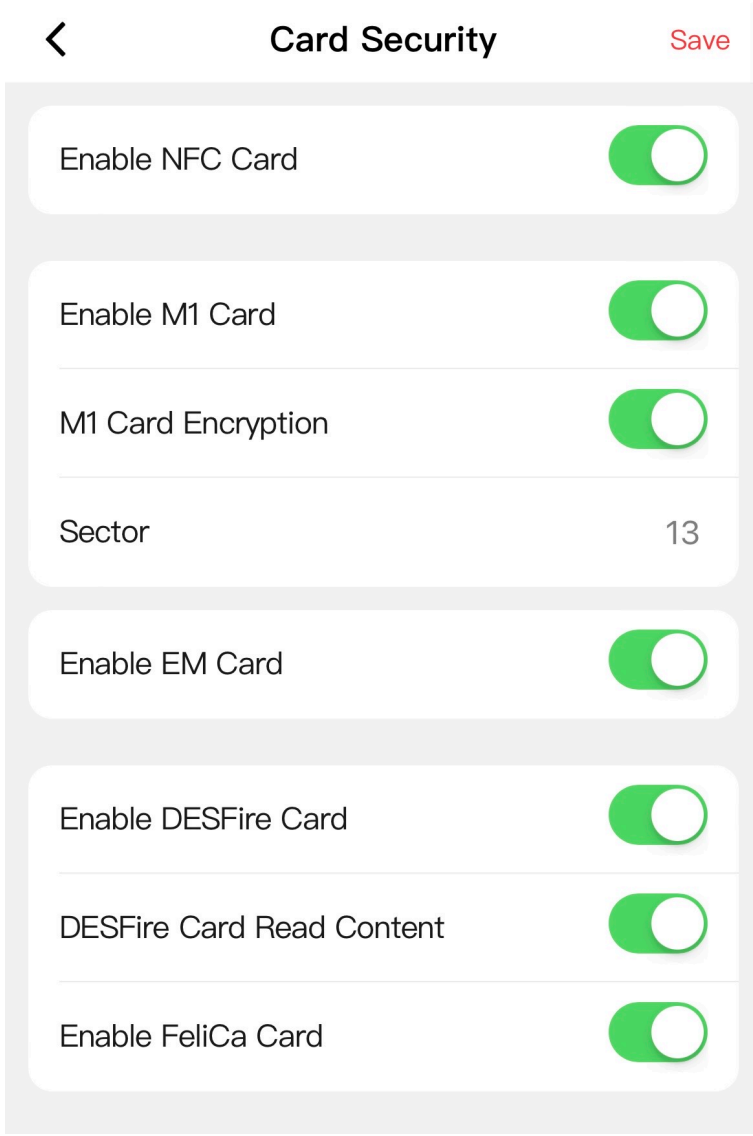


Figure 8-11 Card Security

Configure card parameters, and click **Save**.

Enable NFC Card

In order to prevent the mobile phone from getting the data of the access control, you can disable NFC card to increase the security level of the data.

Enable M1 Card

Enable M1 card and authenticating by presenting M1 card is available.

M1 Card Encryption

M1 card encryption can improve the security level of authentication.

Sector

Enable the function and set the encryption sector.

Note

It is recommended to encrypt sector 13.

Enable EM Card

Enable EM card and authenticating by presenting EM card is available.

Note

If the peripheral card reader supports presenting EM card, the function is also supported to enable/disable the EM card function

Enable DESFire Card

The device can read the data from DESFire card when enabling the DESFire card function.

DESFire Card Read Content

After enable the DESFire card content reading function, the device can read the DESFire card content.

Enable FeliCa Card

The device can read the data from FeliCa card when enabling the FeliCa card function.

8.3.12 Upgrade and Maintenance

Restart device, restore device parameters, and upgrade device version.

Restart Device

Tap → **Restart** .
Tap **Restart** to restart the device.

Upgrade

Tap → **Upgrade** .
Tap **Upgrade** to upgrade the device.

Note

Do not power off during the upgrading.

Restore Parameters

Tap → **Default** .

Restore to Default Settings

The device will restore to the default settings, except for the device IP address and the user information.

Restore to Factory Settings

All parameters will be restored to the factory settings. You should activate the device before usage.

Log Export

Tap → **Log Export** .
Select the log type, and tap **Export** to download the maintenance log.

8.3.13 View Open Source Software License on Mobile Web

Tap → **Open Source Software Licenses** to view the device license.

8.3.14 Log Out

Log out the configuration page.

Tap → **Log Out** on the home page, tap **OK**.
If you need to enter the configuration page, you need to enter the user name and password again.

Chapter 9 Client Software Configuration

You can call the hotline to get the iVMS-4200 client software installation package.

9.1 Configuration Flow of Client Software

Follow the flow diagram below to configure on the client software.

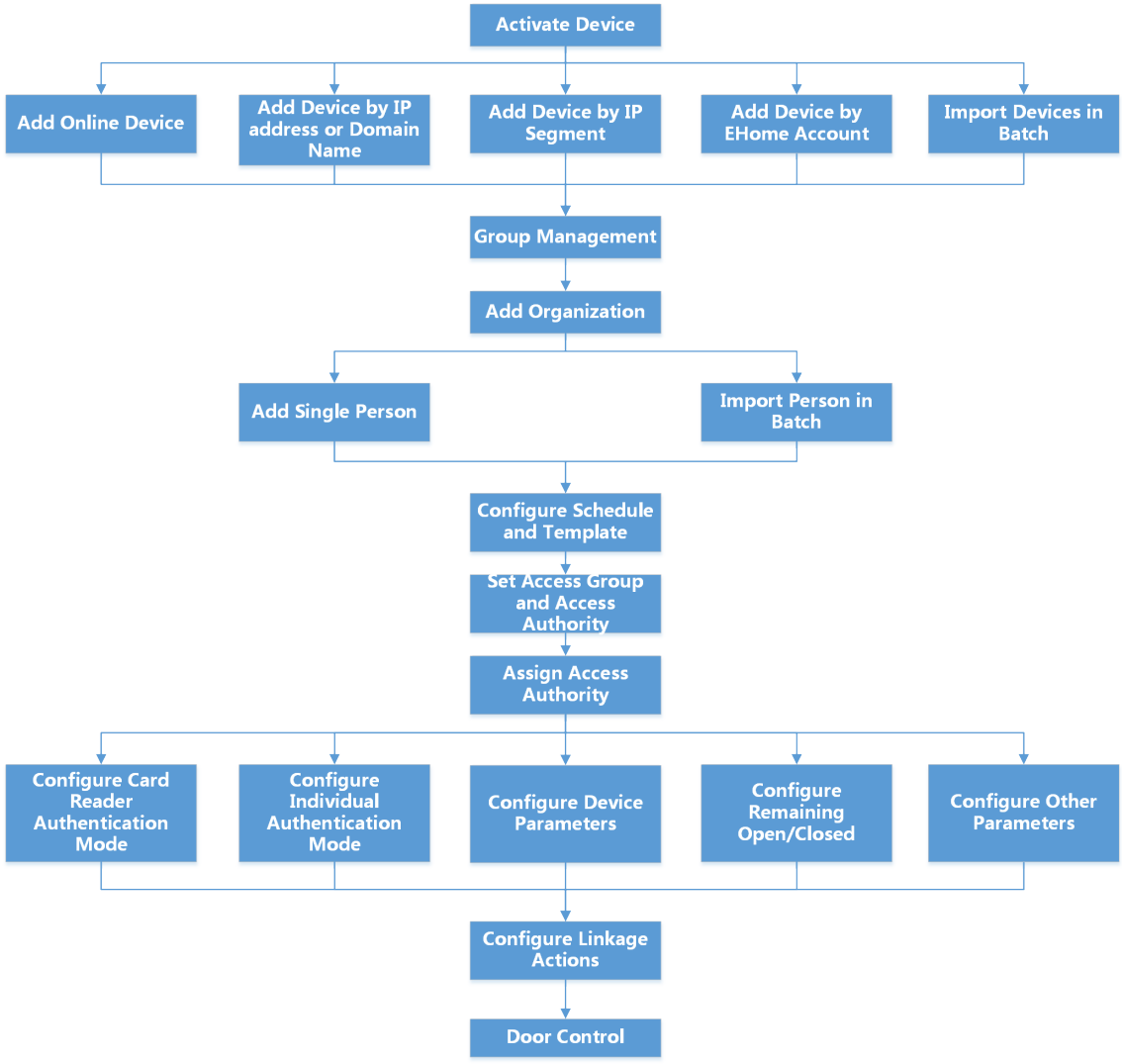


Figure 9-1 Flow Diagram of Configuration on Client Software

9.2 Device Management

The client supports managing access control devices and video intercom devices.

Example
You can control entrance & exit and manage attendance after adding access control devices to the client; you can perform video intercom with the indoor stations and door stations.

9.2.1 Add Device

The client provides three device adding modes including by IP/domain and IP segment. The client also supports importing multiple devices in a batch when there are large amount of devices to be added.

On the right Maintenance and Management area, click **Device Management**.

On the left, click **Device** .

Add Device by IP Address or Domain Name

If you know the IP address or domain name of the device to add, you can add devices to the client by specifying the IP address (or domain name), user name, password, etc.

Steps

1. On the Device page, click **Device** tab on the top of the right panel.
   The added devices are displayed on the right panel.
2. Click **Add** to open the Add window, and then select **IP/Domain** as the adding mode.
3. Enter the required information.

   Name

   Create a descriptive name for the device. For example, you can use a nickname that can show the location or feature of the device.

   Address

   The IP address or domain name of the device.

   Port

   The devices to add share the same port number. The default value is ***8000***.

   Note

   For some device types, you can enter ***80*** as the port No. This function should be supported by the device.

   User Name

   Enter the device user name. By default, the user name is ***admin***.

Password

Enter the device password.

Caution

The password strength of the device can be automatically checked. We highly recommend you change the password of your own choosing (using a minimum of 8 characters, including at least three kinds of following categories: upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you change your password regularly, especially in the high security system, changing the password monthly or weekly can better protect your product.
Proper configuration of all passwords and other security settings is the responsibility of the service provider and/or end-user.

4. **Optional:** Check **Transmission Encryption (TLS)** to enable transmission encryption using TLS (Transport Layer Security) protocol for security purpose.

Note

- This function should be supported by the device.
- If you have enabled Certificate Verification, you should click **Open Certificate Directory** to open the default folder, and copy the certificate file exported from the device to this default directory to strengthen the security. See for details about enabling certificate verification.
- You can log into the device to get the certificate file by web browser.

5. Check **Synchronize Time** to synchronize the device time with the PC running the client after adding the device to the client.
6. **Optional:** Check **Import to Group** to create a group by the device name, and import all the channels of the device to this group.

Example

For access control device, its access points, alarm inputs/outputs, and encoding channels (if exist) will be imported to this group.

7. Finish adding the device.
   - Click **Add** to add the device and back to the device list page.
   - Click **Add and New** to save the settings and continue to add other device.

Import Devices in a Batch

You can add multiple devices to the client in a batch by entering the device parameters in a pre-defined CSV file.

Steps

1. Enter the Device Management module.
2. Click **Device** tab on the top of the right panel.
3. Click **Add** to open the Add window, and then select **Batch Import** as the adding mode.
4. Click **Export Template** and then save the pre-defined template (CSV file) on your PC.

5. Open the exported template file and enter the required information of the devices to be added on the corresponding column.

Note

For detailed description of the required fields, refer to the introductions in the template.

Adding Mode

Enter ***0*** or ***1*** or ***2***.

Address

Edit the address of the device.

Port

Enter the device port number. The default port number is ***8000***.

User Name

Enter the device user name. By default, the user name is ***admin***.

Password

Enter the device password.

Caution

The password strength of the device can be automatically checked. We highly recommend you change the password of your own choosing (using a minimum of 8 characters, including at least three kinds of following categories: upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you change your password regularly, especially in the high security system, changing the password monthly or weekly can better protect your product.
Proper configuration of all passwords and other security settings is the responsibility of the service provider and/or end-user.

Import to Group

Enter ***1*** to create a group by the device name. All the channels of the device will be imported to the corresponding group by default. Enter ***0*** to disable this function.

6. Click ... and select the template file.
7. Click **Add** to import the devices.

9.2.2 Reset Device Password

If you forgot the password of the detected online devices, you can reset the device password via the client.

Steps

1. Enter Device Management page.
2. Click **Online Device** to show the online device area.

All the online devices sharing the same subnet will be displayed in the list.

3. Select the device from the list and click on the Operation column.
4. Reset the device password.
   - Click **Generate** to pop up the QR Code window and click **Download** to save the QR code to your PC. You can also take a photo of the QR code to save it to your phone. Send the picture to our technical support.

Note

For the following operations for resetting the password, contact our technical support.

Caution

The password strength of the device can be automatically checked. We highly recommend you change the password of your own choosing (using a minimum of 8 characters, including at least three kinds of following categories: upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you change your password regularly, especially in the high security system, changing the password monthly or weekly can better protect your product.
Proper configuration of all passwords and other security settings is the responsibility of the service provider and/or end-user.

9.2.3 Manage Added Devices

After adding devices to device list, you can manage the added devices including editing device parameters, remote configuration, viewing device status, etc.

Table 9-1 Manage Added Devices

Edit Device	Click to edit device information including device name, address, user name, password, etc.
Delete Device	Check one or more devices, and click **Delete** to delete the selected devices.
Remote Configuration	On the device list page, click in the Operation column to perform remote configuration for a device. The is in the rightmost column of the Device page. For details, refer to the user manual of device.
View Device Status	Click to view device status, including door No., door status, etc. **Note** For different devices, you will view different information about device status.
View Online User	Click to view the details of online user who access the device, including user name, user type, IP address and login time.

Refresh Device Information	Click to refresh and get the latest device information.
Upgrade Device	View device status in the Firmware Upgrade column, check one or more upgradable devices, and click **Upgrade Device Firmware** to upgrade the selected devices. For details, refer to .
Get Events from Device	Check one device, and click **Get Events from Device** to synchronize events. For details, refer to .
Export Device	Click **Export Device**, set the saving path and select device type to export the device details (such as device type, IP address, and port No.) to your local PC. **Note** The super user can enable **Password Protection** and enter the password, then the exported file of device information will be encrypted.

9.3 Group Management

The client provides groups to manage the added resources in different groups. You can group the resources into different groups according to the resources' locations.

Example
For example, on the 1st floor, there mounted 16 doors, 64 alarm inputs, and 16 alarm outputs. You can organize these resources into one group (named 1st Floor) for convenient management. You can control door status, and do some other operations of the devices after managing the resources by groups.

9.3.1 Add Group

You can add group to organize the added device for convenient management.

Steps
1. Enter the Device Management module.
2. Click **Device Management → Group** to enter the group management page.
3. Create a group.
   - Click **Add Group** and enter a group name as you want.
   - Click **Create Group by Device Name** and select an added device to create a new group by the name of the selected device.

Note

The resources (such as alarm inputs/outputs, access points, etc.) of this device will be imported to the group by default.

9.3.2 Import Resources to Group

You can import the device resources (such as alarm inputs/outputs, access points, etc.) to the added group in a batch.

Before You Start

Add a group for managing devices. Refer to ***Add Group*** .

Steps

1. Enter the Device Management module.
2. Click **Device Management → Group** to enter the group management page.
3. Select a group from the group list and select the resource type as **Access Point**, **Alarm Input**, **Alarm Output**, etc.
4. Click **Import**.
5. Select the thumbnails/names of the resources in the thumbnail/list view.

   Note

   You can click or to switch the resource display mode to thumbnail view or to list view.
6. Click **Import** to import the selected resources to the group.

9.4 Person Management

You can add person information to the system for further operations such as access control, video intercom, time and attendance, etc. You can manage the added persons such as issuing cards to them in a batch, importing and exporting person information in a batch, etc.

9.4.1 Add Organization

You can add an organization and import person information to the organization for effective management of the persons. You can also add a surbodinate organization for the added one.

Steps

1. Enter **Person** module.
2. Select a parent organization in the left column and click **Add** in the upper-left corner to add an organization.
3. Create a name for the added organization.

Note

Up to 10 levels of organizations can be added.

4. **Optional:** Perform the following operation(s).

Edit Organization	Hover the mouse on an added organization and click to edit its name.
Delete Organization	Hover the mouse on an added organization and click to delete it. **Note** • The lower-level organizations will be deleted as well if you delete an organization. • Make sure there is no person added under the organization, or the organization cannot be deleted.
Show Persons in Sub Organization	Check **Show Persons in Sub Organization** and select an organization to show persons in its sub organizations.

9.4.2 Import and Export Person Identify Information

You can import the information of multiple persons to the client software in a batch. Meanwhile, you can also export the person information and save them in your PC.

Import Person Information

You can enter the information of multiple persons in a predefined template (CSV/Excel file) to import the information to the client in a batch.

Steps

1. Enter the Person module.
2. Select an added organization in the list, or click **Add** in the upper-left corner to add an organization and then select it.
3. Click **Import** to open the Import panel.
4. Select **Person Information** as the importing mode.
5. Click **Download Template for Importing Person** to download the template.
6. Enter the person information in the downloaded template.

Note

- If the person has multiple cards, separate the card No. with semicolon.
- Items with asterisk are required.
- By default, the Hire Date is the current date.

7. Click ... to select the CSV/Excel file with person information from local PC.
8. Click **Import** to start importing.

Note

- If a person No. already exists in the client's database, delete the existing information before importing.
- You can import information of no more than 2,000 persons.

Export Person Information

You can export the added persons' information to local PC as a CSV/Excel file.

Before You Start

- Make sure you have added persons to an organization.
- Make sure you have enabled the **Export Person Information** function to display the **Export** button.

Steps

1. Enter the Person module.
2. **Optional:** Select an organization in the list.

   Note

   All persons' information will be exported if you do not select any organization.
3. Click **Export**.
4. Enter the super user name and password for verification.

   The Export panel is displayed.
5. Check **Person Information** as the content to export.
6. Check desired items to export.
7. Click **Export** to save the exported file in CSV/Excel file on your PC.

9.4.3 Get Person Information from Access Control Device

If the access control device has been configured with person information, you can get the person information from the added device and import them to the client for further operations.

Steps

Note

- If the person name stored in the device is empty, the person name will be filled with the issued card No. after importing to the client.
- If the card number or person ID (employee ID) stored on the device already exists in the client database, the person with this card number or person ID will not be imported to the client.

1. Enter **Person** module.
2. Select an organization to import the persons.

3. Click **Get from Device**.
4. Select an added access control device or the enrollment station from the drop-down list.

   Note

   If you select the enrollment station, you should click **Login**, and enter IP address, port No., user name and password of the device.
5. Select the **Getting Mode**.

   Note

   The getting mode varies according to different devices. The access control device supports getting the person information by employee ID. Up to 5 employee IDs can be specified each time.
6. Click **Import** to start importing the person information to the client.

   Note

   Up to 2,000 persons and 5,000 cards can be imported.

   The person information, and the linked cards (if configured), will be imported to the selected organization.

9.4.4 Issue Cards to Persons in Batch

The client provides a convenient way to issue cards to multiple persons in a batch.

Steps

1. Enter **Person** module.
2. **Optional:** Select a person group, and select the persons with no card issued.
   - The selected persons with no card issued in the person group will be displayed in the right panel.
   - If you do not select the persons with no card issued in a person group, all the added persons with no card issued will be displayed in the right panel.
3. Click **Batch Issue Cards**.
4. **Optional:** Enter key words (name or person ID) in the input box to filter the person(s) that need issuing cards.
5. **Optional:** Click **Settings** to set the card issuing parameters. For details, refer to *Issue a Card by Local Mode*.
6. Click **Initialize** to initialize the card enrollment station or card reader to make it ready for issuing cards.
7. Click the **Card No.** column and enter the card number.
   - Place the card on the card enrollment station.
   - Swipe the card on the card reader.
   - Manually enter the card number and press the **Enter** key.

   The person(s) in the list will be issued with card(s).

9.4.5 Report Card Loss

If the person lost his/her card, you can report the card loss so that the card's related access authorization will be inactive.

Steps

1. Enter **Person** module.
2. Select the person you want to report card loss for and click **Edit** to open the Edit Person window.
3. In the **Credential → Card** panel, click on the added card to set this card as lost card.

   After reporting card loss, the access authorization of this card will be invalid and inactive. Other person who gets this card cannot access the doors by swiping this lost card.
4. **Optional:** If the lost card is found, you can click to cancel the loss.

   After cancelling card loss, the access authorization of the person will be valid and active.
5. If the lost card is added in one access group and the access group is applied to the device already, after reporting card loss or cancelling card loss, a window will pop up to notify you to apply the changes to the device. After applying to device, these changes can take effect on the device.

9.4.6 Set Card Issuing Parameters

The client provides two modes for reading a card's number: via card enrollment station or via the card reader of the access control device. If a card enrollment station is available, connect it to the PC running the client by USB interface or COM, and place the card on the card enrollment to read the card number. If not, you can also swipe the card on the card reader of the added access control device to get the card number. As a result, before issuing a card to one person, you need to set the card issuing parameters including the issuing mode and related parameters.

When adding a card to one person, click **Settings** to open the Card Issuing Settings window.

Local Mode: Issue Card by Card Enrollment Station

Connect a card enrollment station to the PC running the client. You can place the card on the card enrollment station to get the card number.

Card Enrollment Station

Select the model of the connected card enrollment station

Note

Currently, the supported card enrollment station models include DS-K1F100-D8, DS-K1F100-M, DS-K1F100-D8E, and DS-K1F180-D8E.

Card Type

This field is only available when the model is DS-K1F100-D8E or DS-K1F180-D8E.

Select the card type as EM card or IC card according to the actual card type.

Serial Port

It is only available when the model is DS-K1F100-M.

Select the COM the card enrollment station connects to.

Buzzing

Enable or disable the buzzing when the card number is read successfully.

Card No. Type

Select the type of the card number according to actual needs.

M1 Card Encryption

This field is only available when the model is DS-K1F100-D8, DS-K1F100-D8E, or DS-K1F180-D8E.

If the card is M1 card, and if you need to enable the M1 Card Encryption function, you should enable this function and select the sector of the card to encrypt.

Remote Mode: Issue Card by Card Reader

Select an access control device added in the client and swipe the card on its card reader to read the card number.

9.5 Configure Schedule and Template

You can configure the template including holiday and week schedule. After setting the template, you can adopt the configured template to access groups when setting the access groups, so that the access group will take effect in the time durations of the template.

Note

For access group settings, refer to ***Set Access Group to Assign Access Authorization to Persons*** .

9.5.1 Add Holiday

You can create holidays and set the days in the holidays, including start date, end date, and holiday duration in one day.

Steps

Note

You can add up to 64 holidays in the software system.

1. Click **Access Control → Schedule → Holiday** to enter the Holiday page.
2. Click **Add** on the left panel.
3. Create a name for the holiday.
4. **Optional:** Enter the descriptions or some notifications of this holiday in the Remark box.
5. Add a holiday period to the holiday list and configure the holiday duration.

Note

Up to 16 holiday periods can be added to one holiday.

1) Click **Add** in the Holiday List field.
2) Drag the cursor to draw the time duration, which means in that duration of time, the configured access group is activated.

   Note

   Up to 8 time durations can be set to one holiday period.
3) **Optional:** Perform the following operations to edit the time durations.
   - Move the cursor to the time duration and drag the time duration on the timeline bar to the desired position when the cursor turns to .
   - Click the time duration and directly edit the start/end time in the appeared dialog.
   - Move the cursor to the start or the end of time duration and drag to lengthen or shorten the time duration when the cursor turns to .
4) **Optional:** Select the time duration(s) that need to be deleted, and then click in the Operation column to delete the selected time duration(s).
5) **Optional:** Click in the Operation column to clear all the time duration(s) in the time bar.
6) **Optional:** Click in the Operation column to delete this added holiday period from the holiday list.

6. Click **Save**.

9.5.2 Add Schedule Template

Template includes week schedule and holiday. You can set week schedule and assign the time duration of access authorization for different person or group. You can also select the added holiday(s) for the template.

Steps

Note

You can add up to 255 templates in the software system.

1. Click **Access Control → Schedule Template → Schedule Template** to enter the Template page.

Note

There are two default templates: **All-Day Authorized** and **All-Day Denied**, and they cannot be edited or deleted.

All-Day Authorized

The access authorization is valid in each day of the week and it has no holiday.

All-Day Denied

The access authorization is invalid in each day of the week and it has no holiday.

2. Click **Add** on the left panel to create a new template.
3. Create a name for the template.
4. Enter the descriptions or some notification of this template in the Remark field.
5. Edit the week schedule to apply it to the template.
   1) Click **Week Schedule** tab on the lower panel.
   2) Select a day of the week and draw time duration(s) on the timeline bar.

      Note

      Up to 8 time duration(s) can be set for each day in the week schedule.

   3) **Optional:** Perform the following operations to edit the time durations.
      - Move the cursor to the time duration and drag the time duration on the timeline bar to the desired position when the cursor turns to .
      - Click the time duration and directly edit the start/end time in the appeared dialog.
      - Click the time duration, check **Enable Authentication Attempts** and enter the max. authentication attempts.
      - Move the cursor to the start or the end of time duration and drag to lengthen or shorten the time duration when the cursor turns to .
   4) Repeat the two steps above to draw more time durations on the other days of the week.
6. Add a holiday to apply it to the template.

   Note

   Up to 4 holidays can be added to one template.

   1) Click **Holiday** tab.
   2) Select a holiday in the left list and it will be added to the selected list on the right panel.
   3) **Optional:** Click **Add** to add a new holiday.

      Note

      For details about adding a holiday, refer to ***Add Holiday*** .

   4) **Optional:** Select a selected holiday in the right list and click to remove the selected one, or click **Clear** to clear all the selected holiday(s) in the right list.
7. Click **Save** to save the settings and finish adding the template.

9.6 Set Access Group to Assign Access Authorization to Persons

After adding the person and configuring the person's credentials, you can create the access groups to define which person(s) can get access to which door(s) and then apply the access group to the access control device to take effect.

Before You Start

- Add person to the client.
- Add access control device to the client and group access points. For details, refer to ***Group Management*** .
- Add template.

Steps

When the access group settings are changed, you need to apply the access groups to the devices again to take effect. The access group changes include changes of template, access group settings, person's access group settings, and related person details.

1. Click **Access Control → Authorization → Access Group** to enter the Access Group interface.
2. Click **Add** to open the Add window.
3. In the **Name** text field, create a name for the access group as you want.
4. Select a template for the access group.

   Note

   You should configure the template before access group settings. Refer to ***Configure Schedule and Template*** for details.
5. In the left list of the Select Person field, select person(s) to assign access authority.
6. In the left list of the Select Access Point field, select door(s), door station(s) or floor(s) for the selected persons to access.
7. Click **Save**.

   You can view the selected person(s) and the selected access point(s) on the right side of the interface.

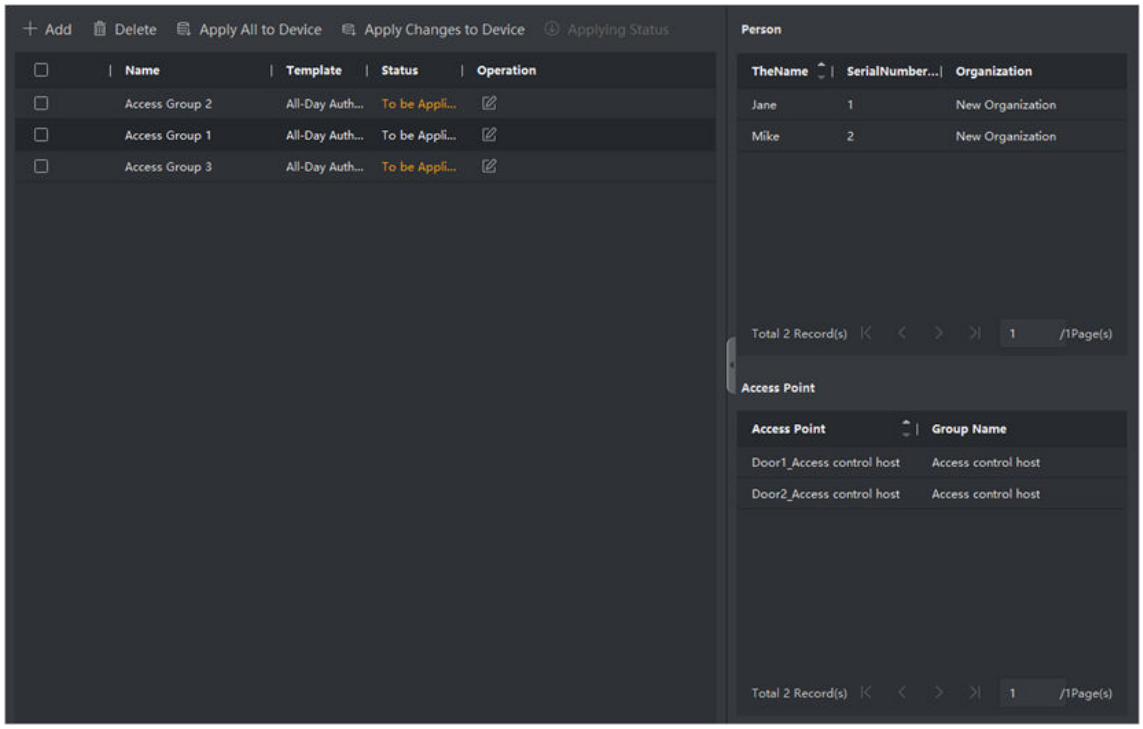


Figure 9-2 Display the Selected Person(s) and Access Point(s)

8. After adding the access groups, you need to apply them to the access control device to take effect.
   1) Select the access group(s) to apply to the access control device.
   2) Click **Apply All to Devices** start applying all the selected access group(s) to the access control device or door station.
   3) Click **Apply All to Devices** or **Apply Changes to Devices**.

      Apply All to Devices

      This operation will clear all the existed access groups of the selected devices and then apply the new access group to the device.

      Apply Changes to Devices

      This operation will not clear the existed access groups of the selected devices and only apply the changed part of the selected access group(s) to the device(s).
   4) View the applying status in the Status column or click **Applying Status** to view all the applied access group(s).

   Note

   You can check **Display Failure Only** to filter the applying results.

   The selected persons in the applied access groups will have the authorization to enter/exit the selected doors/door stations with their linked card(s).
9. **Optional:** Click to edit the access group if necessary.

Note

If you change the persons' access information or other related information, you will view the prompt **Access Group to Be Applied** on the right corner of the client.
You can click the prompt to apply the changed data to the device. You can select either **Apply Now** or **Apply Later**.

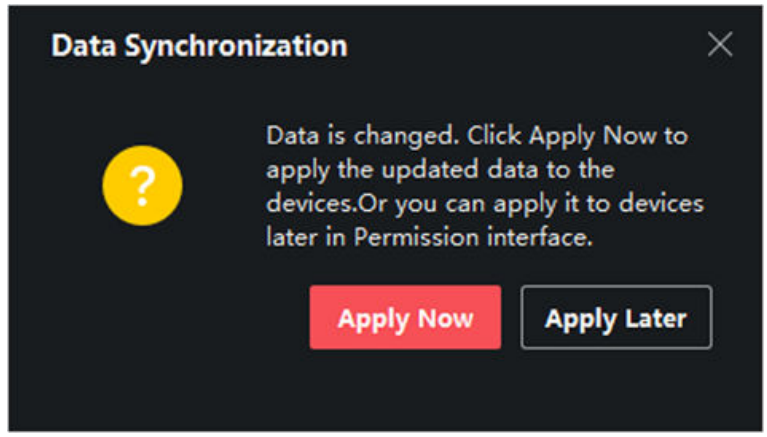


Figure 9-3 Data Synchronization

9.7 Configure Advanced Functions

You can configure the advanced functions of access control to meet some special requirements in different scene.

Note

- For the card related functions(the type of access control card), only the card(s) with access group applied will be listed when adding cards.
- The advanced functions should be supported by the device.
- Hover the cursor on the Advanced Function, and then Click to customize the advanced function(s) to be displayed.

9.7.1 Configure Device Parameters

After adding the access control device, you can configure the parameters of access control device (access controller), access control points (door or floor), alarm inputs, alarm outputs, card readers and lane controller.

Configure Parameters for Access Control Device

After adding the access control device, you can configure its parameters, including overlaying user information on picture, uploading pictures after capturing, saving captured pictures, etc.

Before You Start
Add access control device to the client.

Steps
1. Click **Access Control → Advanced Function → Device Parameters** .

   Note

   If you can not find Device Parameter in the Advanced Function list, hover the cursor on the Advanced Function, and then Click to select the Device Parameter to be displayed.
2. Select an access device to show its parameters on the right page.
3. Turn the switch to ON to enable the corresponding functions.

   Note

   - The displayed parameters may vary for different access control devices.
   - Some of the following parameters are not listed in the Basic Information page, click **More** to edit the parameters.

   Enable NFC

   If enable the function, the device can recognize the NFC card. You can present NFC card on the device.

   Enable M1 Card

   If enable the function, the device can recognize the M1 card. You can present M1 card on the device.

   Enable EM Card

   If enable the function, the device can recognize the EM card. You can present EM card on the device.
4. Click **OK**.
5. **Optional:** Click **Copy to**, and then select the access control device(s) to copy the parameters in the page to the selected device(s).

Configure Parameters for Door/Elevator

After adding the access control device, you can configure its access point (door or floor) parameters.

Before You Start
Add access control device to the client.

Steps

1. Click **Access Control → Advanced Function → Device Parameter** .
2. Select an access control device on the left panel, and then click to show the doors or floors of the selected device.
3. Select a door or floor to show its parameters on the right page.
4. Edit the door or floor parameters.

Note

- The displayed parameters may vary for different access control devices.
- Some of the following parameters are not listed in the Basic Information page, click **More** to edit the parameters.

Name

Edit the card reader name as desired.

Exit Button Type

You can set the exit button as remaining closed or remaining open. Usually, it is remaining open.

Open Duration

The door contact can be enabled with appropriate delay after person with extended access needs swipes her/his card.

5. Click **OK**.
6. **Optional:** Click **Copy to** , and then select the door/floor(s) to copy the parameters in the page to the selected doors/floor(s).

Note

The door or floor's status duration settings will be copied to the selected door/floor(s) as well.

Configure Parameters for Card Reader

After adding the access control device, you can configure its card reader parameters.

Before You Start

Add access control device to the client.

Steps

1. Click **Access Control → Advanced Function → Device Parameter** .
2. In the device list on the left, click to expand the door, select a card reader and you can edit the card reader's parameters on the right.
3. Edit the card reader basic parameters in the Basic Information page.

Note

- The displayed parameters may vary for different access control devices. There are part of parameters listed as follows. Refer to the user manual of the device for more details.

Name

Edit the card reader name as desired.

Card Authentication Interval

The time interval between two continuous card recognitions when authenticating.

Repeated Authentication Interval

Within the specified interval, repeated authentication of the same card number (uploaded by different devices) is invalid, and only one authentication is performed.

Enable Failed Attempts Limit of Authentication/Max. Failed Attempts for Authentication

Enable to report alarm when the card reading attempts reach the set value.

Card Reader Type/Card Reader Description

Get card reader type and description. They are read-only.

4. Click **Advanced** to configure more parameters.

Basic Information

Enable Card Reader

Enable the function and e device can be used as an card reader.

Communication with Controller Every

When the access control device cannot connect with the card reader for longer than the set time, the card reader will turn offline automatically.

5. Click **OK**.
6. **Optional:** Click **Copy to**, and then select the card reader(s) to copy the parameters in the page to the selected card reader(s).

Configure Parameters for Alarm Output

After adding the access control device, if the device links to alarm outputs, you can configure the parameters.

Before You Start

Add access control device to the client, and make sure the device supports alarm output.

Steps

1. Click **Access Control → Advanced Function → Device Parameter** to enter access control parameter configuration page.
2. In the device list on the left, click to expand the door, select an alarm input and you can edit the alarm input's parameters on the right.
3. Set the alarm output parameters.

Name

Edit the card reader name as desired.

Alarm Output Active Time

How long the alarm output will last after triggered.

4. Click **OK**.
5. **Optional:** Set the switch on the upper right corner to **ON** to trigger the alarm output.

Configure Parameters for Lane Controller

After adding the lane controller to the client, you can configure its parameters for passing through the lane.

Before You Start

Add access control device to the client.

Steps

1. Click **Access Control → Advanced Function → Device Parameter** to enter Parameter Settings page.
2. In the device list on the left, select a lane controller and you can edit the lane controller's parameters on the right.
3. Edit the parameters.

Passing Mode

Select the controller which will control the barrier status of the device.

Permission Controller Passing Mode

Select the passing mode as **Normal Mode** or **Schedule Template Mode**.

Alarm Voice Prompt Time Duration

Set how long the audio will last, which is played when an alarm is triggered .

Note

0 refers to the alarm audio will be played until the alarm is ended.

Temperature Unit

Select the temperature unit that displayed in the device status.

Lightboard Brightness

Adjust the brightness of the device light.

Opening/Closing Barrier Speed

Set the barrier's opening and closing speed. You can select from 1 to 10. The greater the value, the faster the speed.

Note

The recommended value is 6.

Memory Mode

Multiple cards presenting for multiple persons passing is allowable when enabling the memory mode. When the passing person's number exceeds the card presenting number, or after the latest person passing with no other person passing within the door open duration, the door will closed automatically.

4. Click **OK**.

9.7.2 Configure Device Parameters

After adding the access control device, you can set its parameters such as network parameters.

Set RS-485 Parameters

You can set the access control device's RS-485 parameters including the baud rate, data bit, the stop bit, parity type, flow control type, communication mode, work mode, and connection mode.

Before You Start

Add access control device to the client, and make sure the device supports RS-485 interface.

Steps

1. Enter the Access Control module.
2. On the navigation bar on the left, enter **Advanced Function → More Parameters** .
3. Select an access control device in the device list and click **RS-485** to enter the RS-485 Settings page.
4. Select the serial port number from the drop-down list to set the RS-485 parameters.
5. Set the baud rate, data bit, the stop bit, parity type, and connection mode in the drop-down list.
6. Click **Save**.
   - The configured parameters will be applied to the device automatically.
   - When you change the connection mode, the device will reboot automatically.

Set Wiegand Parameters

You can set the access control device's Wiegand channel and the communication mode. After setting the Wiegand parameters, the device can connect to Wiegand card reader via Wiegand communication.

Before You Start

Add access control device to the client, and make sure the device supports Wiegand.

Steps

1. Enter the Access Control module.
2. On the navigation bar on the left, enter **Advanced Function → More Parameters** .
3. Select an access control device in the device list and click **Wiegand** to enter the Wiegand Settings page.
4. Set the switch to on to enable the Wiegand function for the device.
5. Select the Wiegand channel No. and the communication mode from the drop-down list.

   Note

   If you set **Communication Direction** as **Sending**, you are required to set the **Wiegand Mode** as **Wiegand 26** or **Wiegand 34**.
6. Click **Save**.
   - The configured parameters will be applied to the device automatically.
   - After changing the communication direction, the device will reboot automatically.

Enable M1 Card Encryption

M1 card encryption can improve the security level of authentication.

Steps

Note

The function should be supported by the access control device and the card reader.

1. Enter the Access Control module.
2. On the navigation bar on the left, enter **Advanced Function → More Parameters** .
3. Select an access control device in the device list and click **M1 Card Encryption Verification** to enter the M1 Card Encryption Verification page.
4. Set the switch to on to enable the M1 card encryption function.
5. Set the sector ID.

   Note

   - The sector ID ranges from 1 to 100.
   - By default, Sector 13 is encrypted. It is recommended to encrypt sector 13.
6. Click **Save** to save the settings.

9.8 Door Control

In Monitoring module, you can view the real-time status of the doors managed by the added access control device. You can also control the doors such as open/close the door, or remain the door open/closed via the client remotely. The real-time access event are displayed in this module. You can view the access details and person details.

Note

For the user with door control permission, the user can enter the Monitoring module and control the door. Or the icons used for control will not show. For setting the user permission, refer to ***Person Management*** .

9.8.1 Control Door Status

You can control the status for the door(s), including unlock door, locking door, remaining the door unlock, remaining the door locked, remain all unlocked, etc.

Before You Start

- Add person and assign access authorization to designed person, and person will have the access authorization to the access points (doors). For details, refer to ***Person Management*** and ***Set Access Group to Assign Access Authorization to Persons*** .
- Make sure the operation user has the permission of the access points (doors).

Steps

1. Click **Monitoring** to enter the status monitoring page.
2. Select an access point group on the upper-right corner.

   Note

   For managing the access point group, refer to ***Group Management*** .

   The doors in the selected access control group will display.
3. Click a door icon to select a door, or press **Ctrl** and select multiple doors.

   Note

   For **Remain All Unlocked** and **Remain All Locked**, ignore this step.
4. Click the following buttons to control the door.

   Unlock Door

   When the door is locked, unlock it and it will be open for once. After the open duration, the door will be closed and locked again automatically.

   Lock Door

   When the door is unlocked, lock it and it will be closed. The person who has the access authorization can access the door with credentials.

   Remain Unlocked

   The door will be unlocked (no matter closed or open). All the persons can access the door with no credentials required.

   Remain Locked

   The door will be closed and locked. No person can access the door even if he/she has the authorized credentials, except the super users.

Remain All Unlocked

All doors in the group will be unlocked (no matter closed or open). All the persons can access the doors with no credentials required.

Remain All Locked

All doors in the group will be closed and locked. No person can access the doors even if he/she has the authorized credentials, except the super users.

Capture

Capture a picture manually.

Note

The **Capture** button is available when the device supports capture function. The picture is saved in the PC running the client.

Remotely Unlocking Door Station

When the group includes door stations, you can check **Lock1** or **Lock2**, then click **Unlock Door** to unlock the door station.

Note

By default, **Lock1** is checked for door stations.

Refresh Status

Click **Refresh Status** to get the door's newest status.

Result

The icon of the doors will change in real-time according to the operation if the operation is succeeded.

9.8.2 Check Real-Time Access Records

The real-time access records can be displayed in the client, including card swiping records, face recognition records, skin-surface temperature information, etc. Also, you can view the person information and view the picture captured during access.

Before You Start

You have added person(s) and access control device(s) to the client. For details, refer to ***Person Management*** and ***Add Device*** .

Steps

1. Click **Monitoring** to enter the Monitoring module.

   Real-time access records are displayed on the bottom of the page. You can view record details, including card No., person name, event time, door location, temperature, authentication type etc.

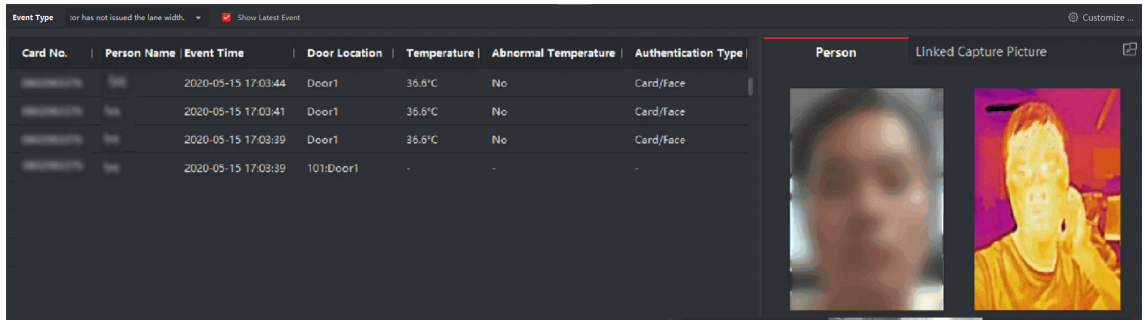


Figure 9-4 Real-time Access Records

Note

You can right click the column name of access event table to show or hide the column according to actual needs.

2. Filter events.
   1) In the upper-right corner, select an access point group from the drop-down list to show the real time access records of the selected group.
   2) Check the event type.
   3) **Optional:** Check **Show Latest Event** to view the latest access record.
3. **Optional:** View event records and perform more operations.

Enable Abnormal Temperature Prompt	Check **Enable Abnormal Temperature Prompt** to enable abnormal skin-surface temperature prompt. When enabled, if there is abnormal temperature information, an Abnormal Temperature window pops up when you enter Monitoring module, displaying person's picture, skin-surface temperature, card No., person name, etc.
View Pictures	Click an event to view person pictures (including captured picture and profile). In **Linked Capture Picture** field, you can double click the captured picture to view an enlarged picture.
View Event Details	Click to view monitoring details (including person's detailed information and the captured picture). In the pop-up window, you can click to view monitoring details in full screen.
Customize Column Display	Click **Customize Column Display** to customize the columns to be displayed.

Appendix A. DIP Switch

A.1 DIP Switch Description

The DIP switch is on the access control board. No.1 and No 2 is from the low bit to the high bit.

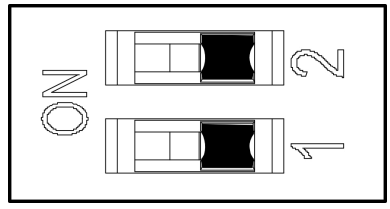
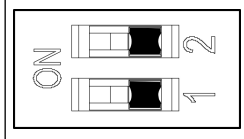
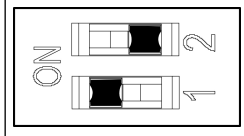
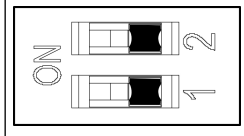
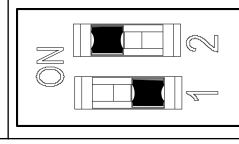


Figure A-1 DIP Switch

When the switch is towards ON, it means the switch is enabled, otherwise, the switch is off.

A.2 DIP Switch Corresponded Functions

The 2-bit DIP switch corresponded functions on the access control board are as follows:

Bit	Device Mode	Function	Decimal Value	DIP Switch Address Diagram
1	Work Mode	Normal Mode	0	
		Study Mode	1	
2	Keyfob Paring Mode	Disable Keyfob Paring Mode	0	
		Enable Keyfob Paring Mode	1	

Appendix B. Button Configuration Description

Refer to the table below for device configuration via button on the main lane control board.

Level-1 Configuration No.	Description	Level-1 Configuration No. and Functions
1	Study Mode	1-Exit Study Mode/Normal Mode 2-Study Mode **Note** By default, 1 will be displayed on the display screen.
2	keyfob Pairing Mode	1-Normal Mode 2-Pairing Mode **Note** By default, 1 will be displayed on the display screen.
3	Passing Mode	1-Both sides under control **Note** By default, 1 will be displayed on the display screen. 2-Entrance under control; exit prohibited 3-Entrance under control; exit free 4-Both sides free 5-Entrance free; exit under control 6-Entrance free; exit prohibited 7-Both sides prohibited 8-Entrance prohibited; exit under control 9-Entrance prohibited; exit free

Level-1 Configuration No.	Description	Level-1 Configuration No. and Functions
4	Memory Mode	1-Disable 2-Enable **Note** By default, 2 will be displayed on the display screen.
5	keyfob Remote Control	1-one to one 2-one to multiple **Note** By default, 1 will be displayed on the display screen.
9	Enter Duration	5-5s，6-6s，7-7s, ..., 60-60s **Note** By default, 5 will be displayed on the display screen.
10	Exit Duration	5-5s，6-6s，7-7s, ..., 60-60s **Note** By default, 5 will be displayed on the display screen.
39	Brightness of Light	0-0，1-1，2-2, … , 10-10 **Note** By default, 6 will be displayed on the display screen.
42	Clearing People Counting	1-Default 2-Enable **Note** By default, 1 will be displayed on the display screen.
43	Fire Protection Type	1-Remain Closed

Level-1 Configuration No.	Description	Level-1 Configuration No. and Functions
		2-Remain Open **Note** By default, 2 will be displayed on the display screen.
99	Restore to Default	1-Default 2-Enable **Note** By default, 1 will be displayed on the display screen.

Appendix C. Event and Alarm Type

Event	Alarm Type
Force Accessing	None
Climb over Arm	Visual and Audible
Passing Timeout	None
Arm Obstructed	None

Appendix D. Table of Audio Index Related Content

Index	Content
1	Authenticated.
2	Card No. does not exist.
3	Climbing over the barrier.
4	Passing timeout.
5	Force accessing.
6	No permissions.
7	Authentication time out.
8	Authentication failed.
9	Expired card.

Appendix E. Error Code Description

The swing barrier will display the error code on the seven-segment display if error occurred. Refer to the table below to find the description of each number.

Error Reason	Code	Error Reason	Code
First IR Beam Triggered	01	Second IR Beam Triggered	02
Optional Board Offline (If the board is not installed, the error code of "49" will appear but the device functions normally)	49		
Not Studying	54	Barrier Obstruction	55
Exceeding Studying Range	56	Encoder Offline	57
Motor Offline	58	Motor Drive Fault	64
Motor Fault	66	Motor Over-current	68
Motor Under-voltage	69	Motor Over-voltage	70
Motor Arm Opening Timeout	74	Motor Encoder Exception	76


See Far, Go Further