# DS-K6Y220TX Series Flap Barrier

**User Manual**

# 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.
- This equipment is not suitable for use in locations where children are likely to be present.
- 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.
- Please use the power adapter, which is provided by normal company. The power consumption cannot be less than the required value.
- 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.)

## ⚠ 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.
- The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, table-cloths, curtains, etc. The openings shall never be blocked by placing the equipment on a bed, sofa, rug or other similar surface.
- The serial port of the equipment is used for debugging only.
- Stainless steel may be corroded in some circumstances. You need to clean and care the device by using the stainless steel cleaner. It is suggested to clean the device every month.
- 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 100% 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 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 584 mm.

3. Slot on the installation surface and drill installation holes after determining the hole positions. Put 6 expansion bolts of M12*150 for each pedestal.

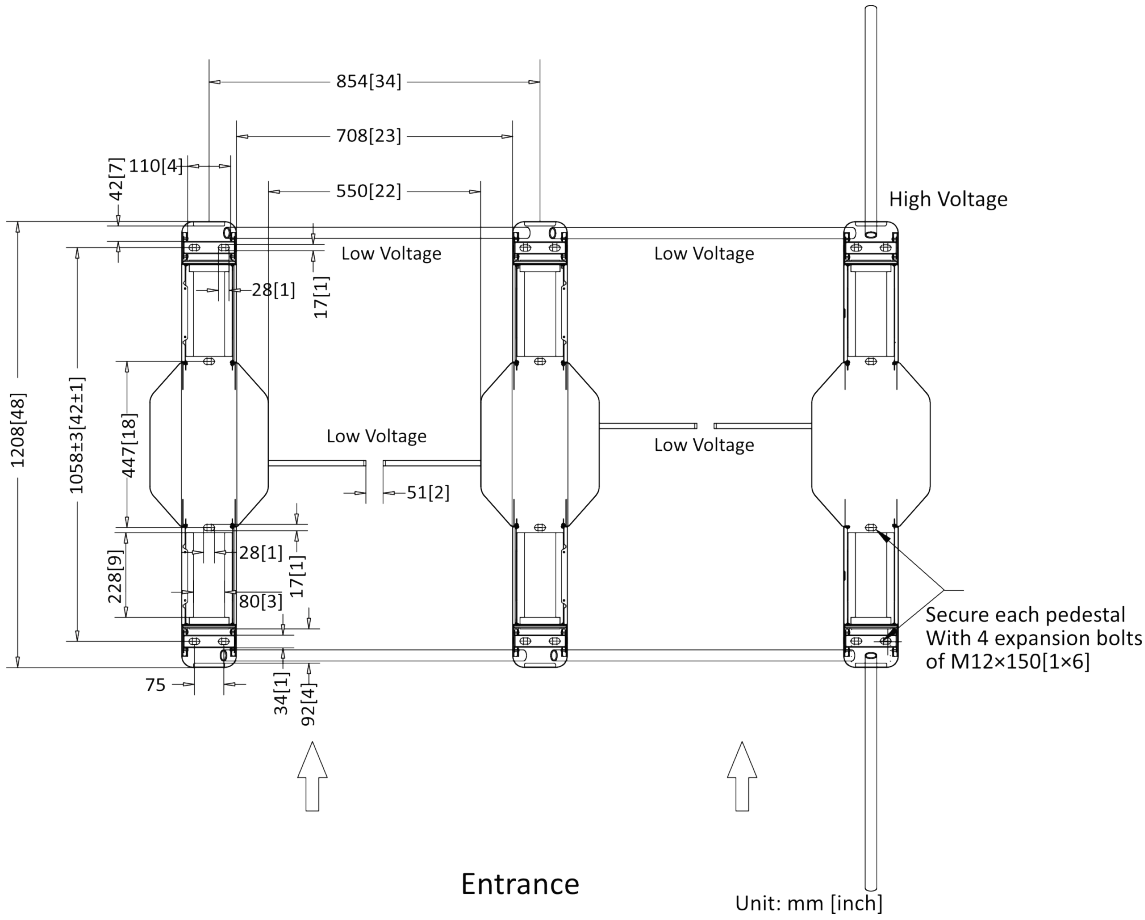



**Figure 1-1 Hole Position Diagram**

4. Bury cables.

**Note**

- High voltage: 200 to 240 VAC, 50 to 60 Hz AC power input. Size: 3 × 1.0mm2; Reserved length out of the ground: 2.3 m.
- Low voltage: 1 network communication cable (3 m).
- 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 2 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.
- Indoor use only. Do not immerse the pedestal in the water.
- If the installation area is close to the wall, make sure the distance between the pedestal and the wall should be more than 20 mm, or you might cause damage to the device or cannot open the pedestal's top panel.

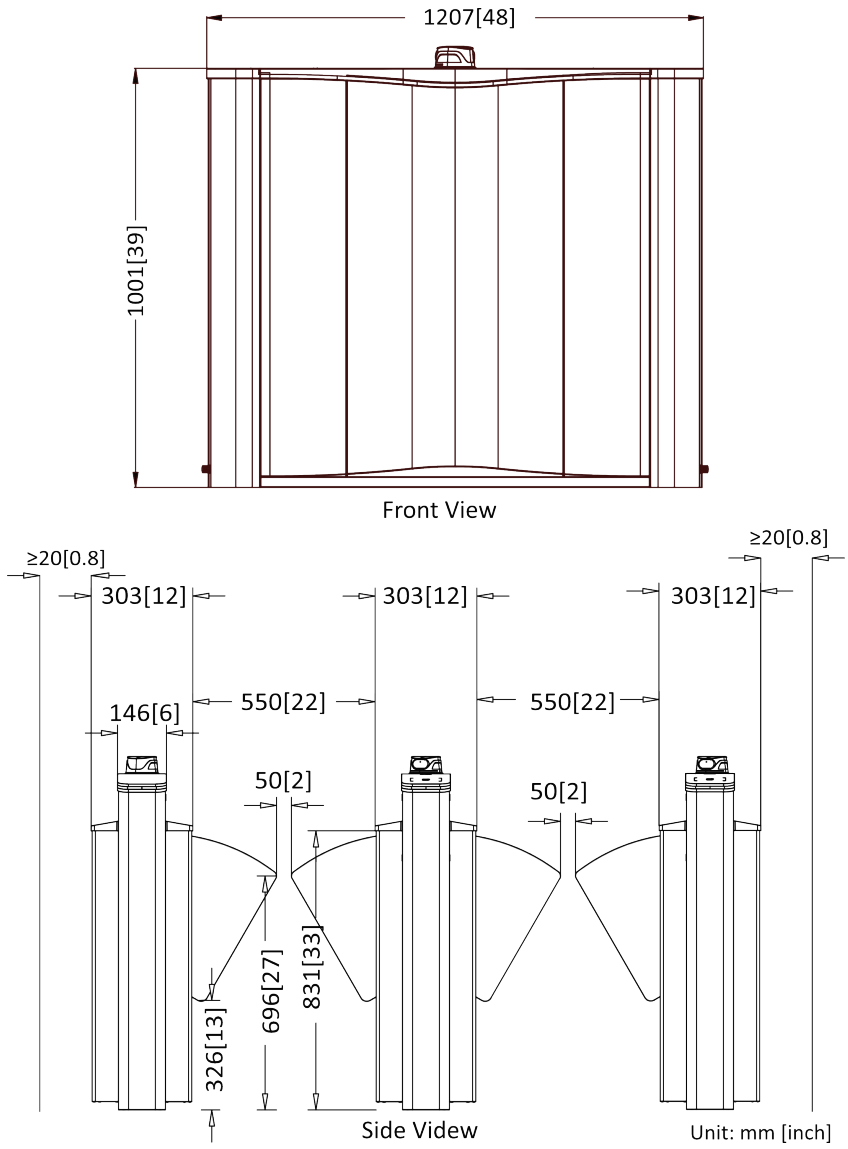



**Figure 2-1 Dimension**

1. Prepare installation tools, check the components, and clean the installation base.
2. Align the pedestals with the pre-buried expansion bolts, and remove the side maintenance door.
3. Secure each pedestal with expansion bolts, and fix the maintenance door to its original position.

# Chapter 3 General Wiring

**Note**

- 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.
- When disassembling the high voltage module, you should disconnect the power to avoid injury.
- If only wiring is needed without maintenance, do not remove the high voltage modules.
- The switch and the main lane control board are already connected. The 14 AWG cable to connect between the AC electric supply and the switch should be purchased separately.

Scan the QR code to view the wiring guide video.

## 3.1 Components Introduction

By default, basic components of the turnstile are connected well. The pedestals can communicate by wiring the interconnecting cables. 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 100 VAC and 220 VAC, 50 to 60 Hz.

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

**Note**

The diagram is for reference only.

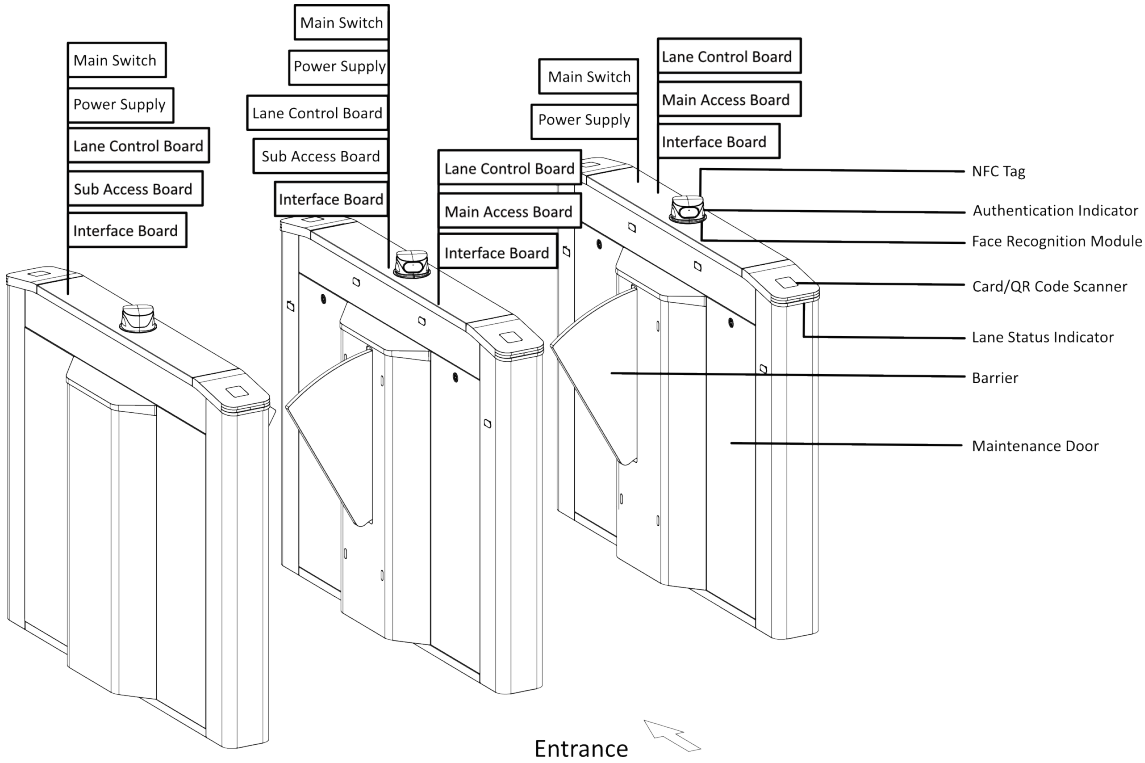



**Figure 3-1 Cmponent Diagram**

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

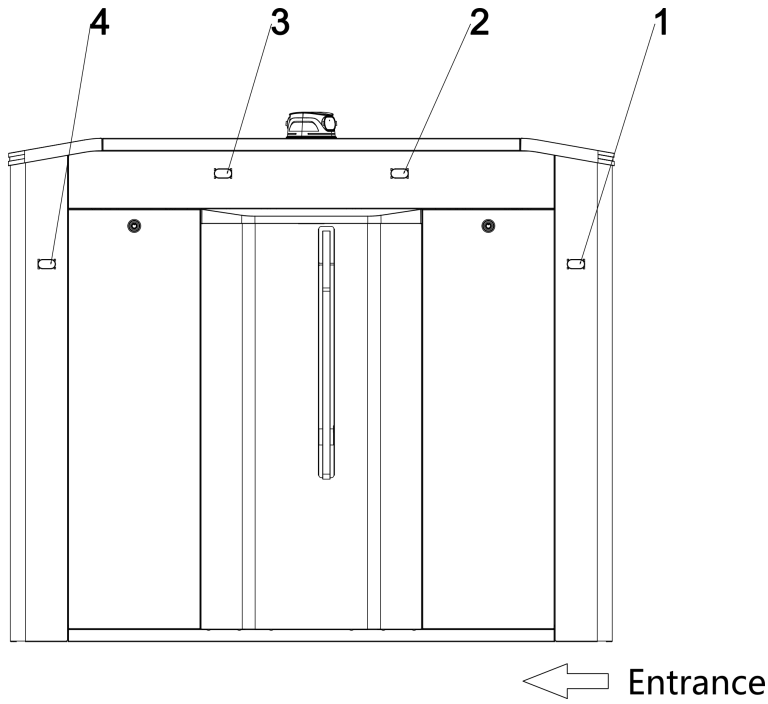
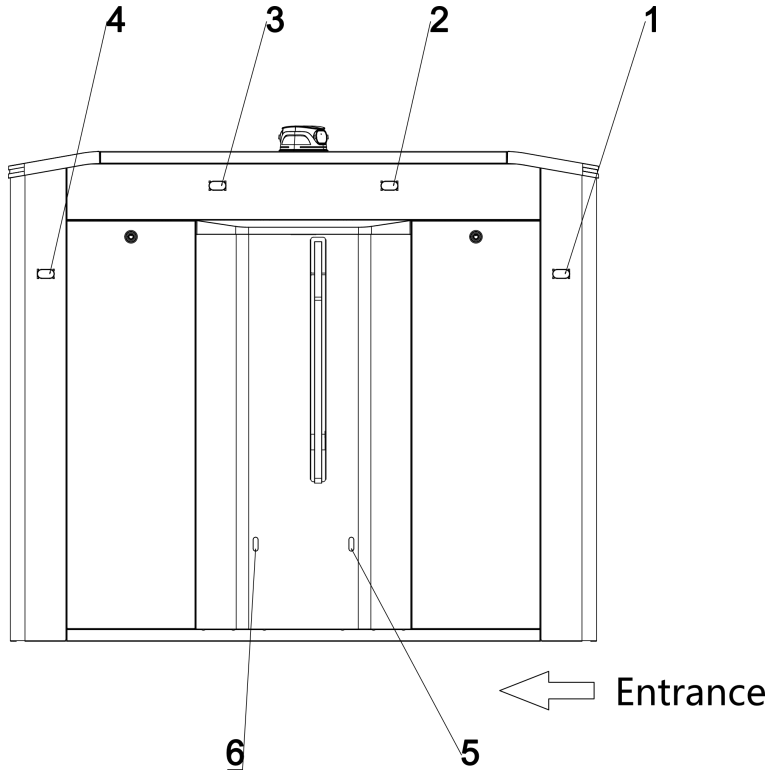
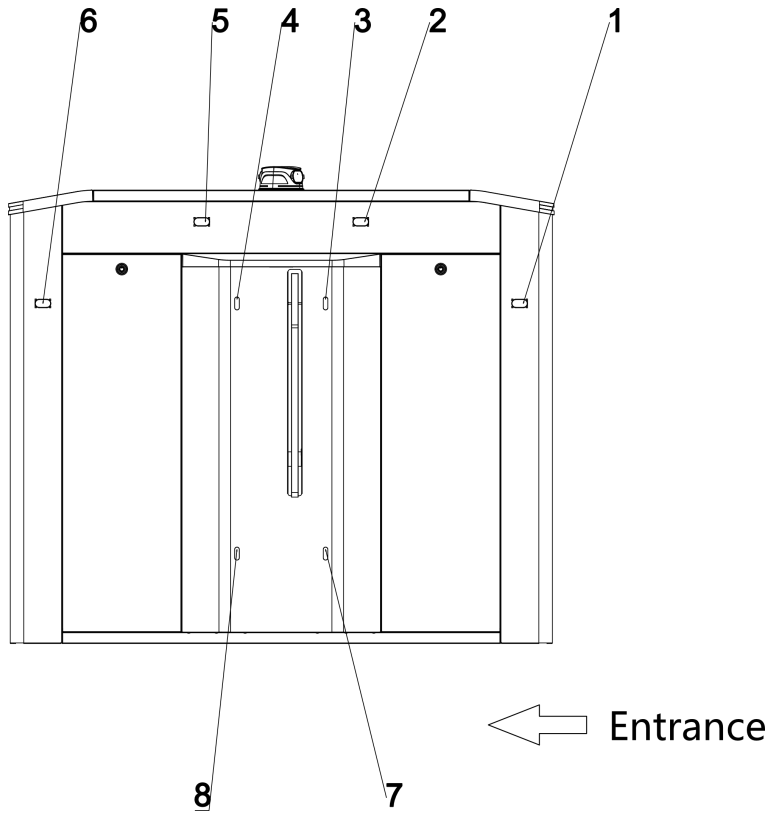



**Figure 3-2 IR Module**






## 3.2 Wiring Electric Supply

Wire electric supply with the switch in the pedestal. Terminal L and terminal N are on the switch, while terminal PE should connect to a ground wire (yellow and green wire).

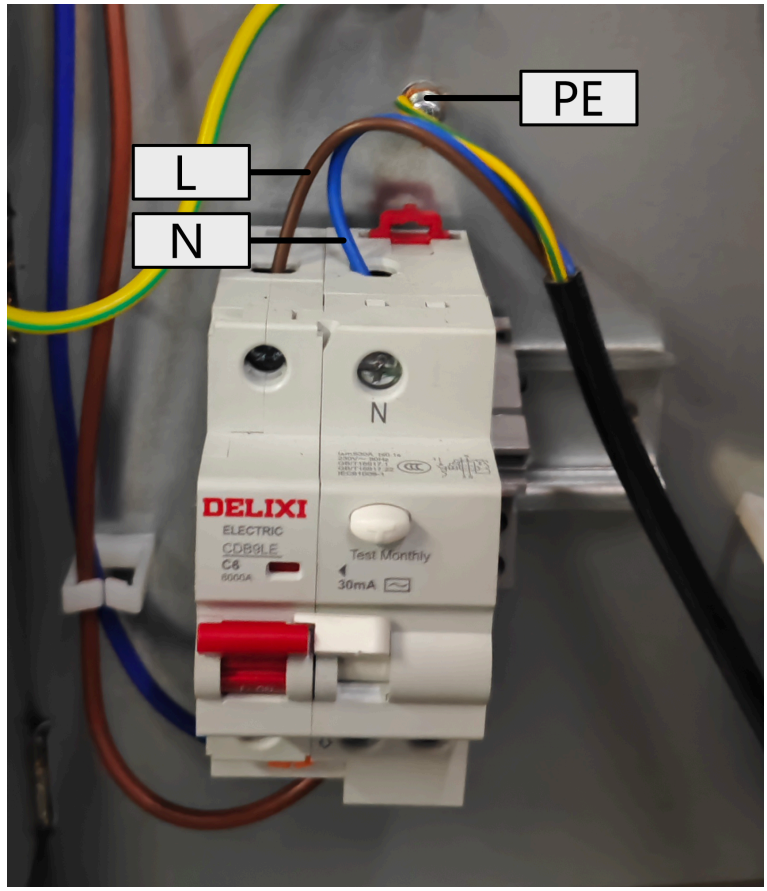



**Figure 3-3 Wire Electric Supply**

**Caution**

To avoid people injury and device damage, the PE terminal must connect to the ground.

**Note**

- The cable bare part should be no more than 8 mm. If possible, wear an insulation cap at the end of the bare cable. Make sure there's no bare copper or cable after the wiring.
- The Terminal L and the Terminal N cannot be wired reversely. Do not wire the input and output terminal reversely.
- To avoid people injury and device damage, when testing, the ground resistance of the equipotential points should not be larger than 2 Ω.
- Use the device in conjunction with an UPS.
- To avoid the injury when the grounding cable is ripped away, the cable for wiring the ground should be longer than the high voltage cable.

## 3.3 UART Description

If the device is not installed with the card reader, QR code scanner, face recognition module, etc., you can use the reserved UARTs to wire.

The following picture describes the UARTs' position.

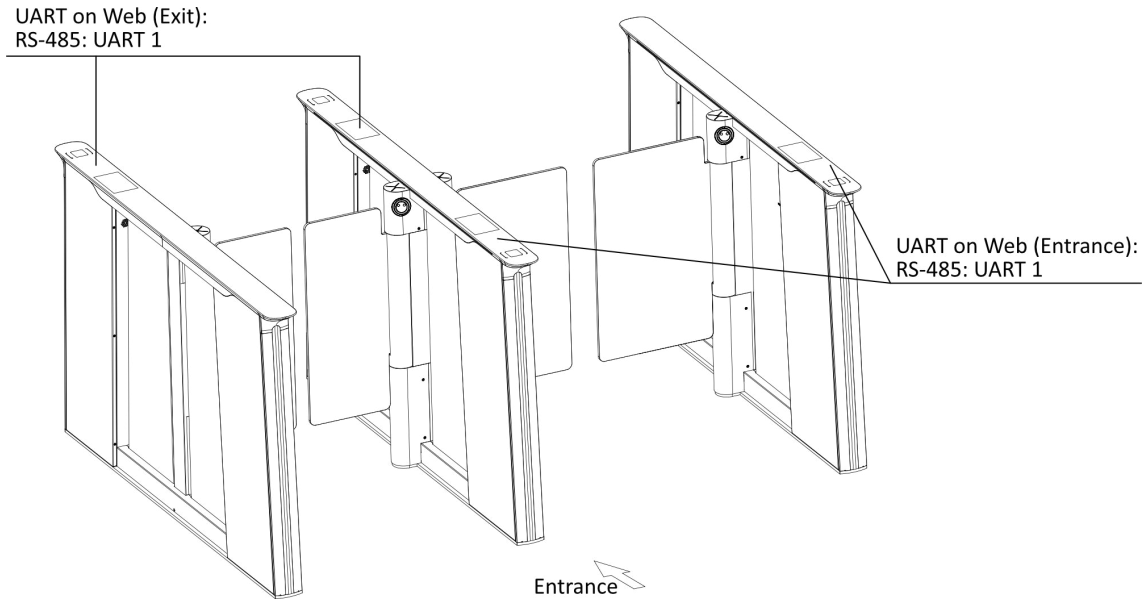



**Figure 3-4 UART Description**

# Chapter 4 Terminal Description

## 4.1 General Wiring

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

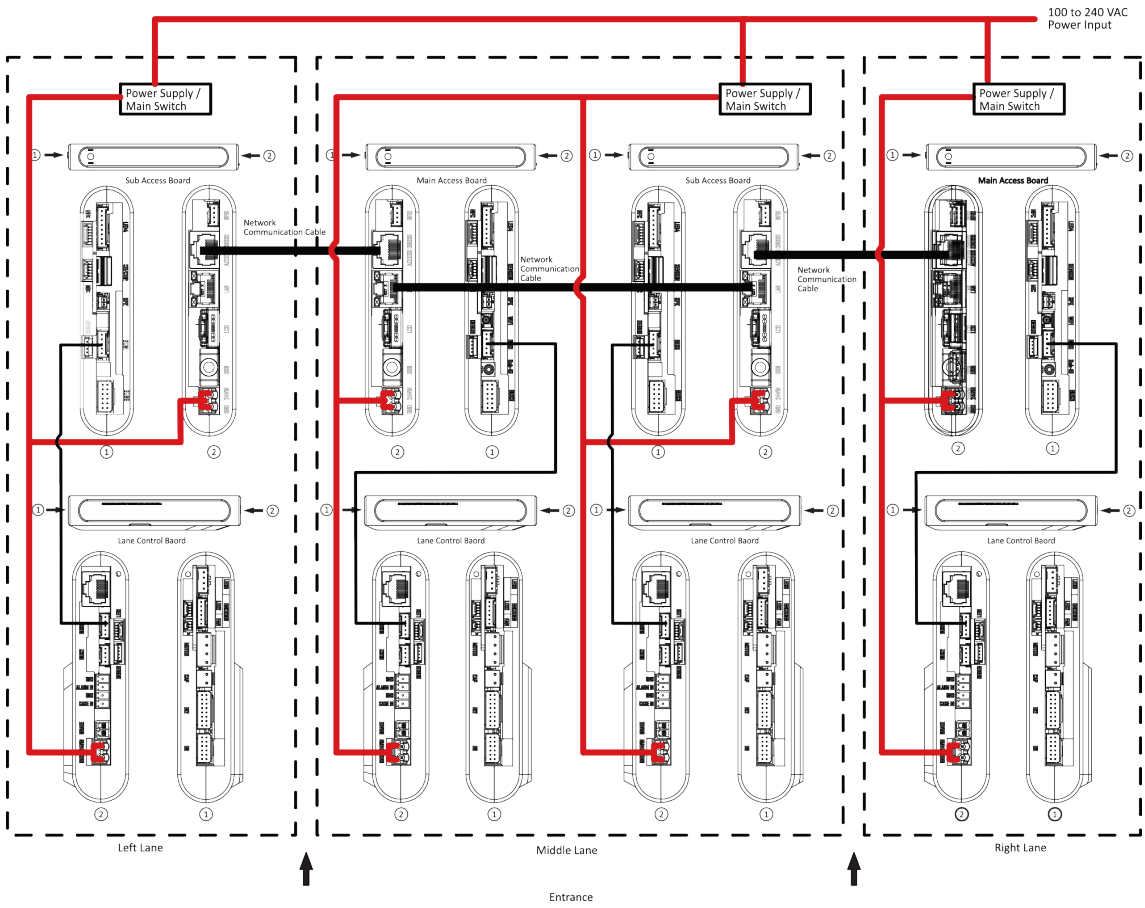


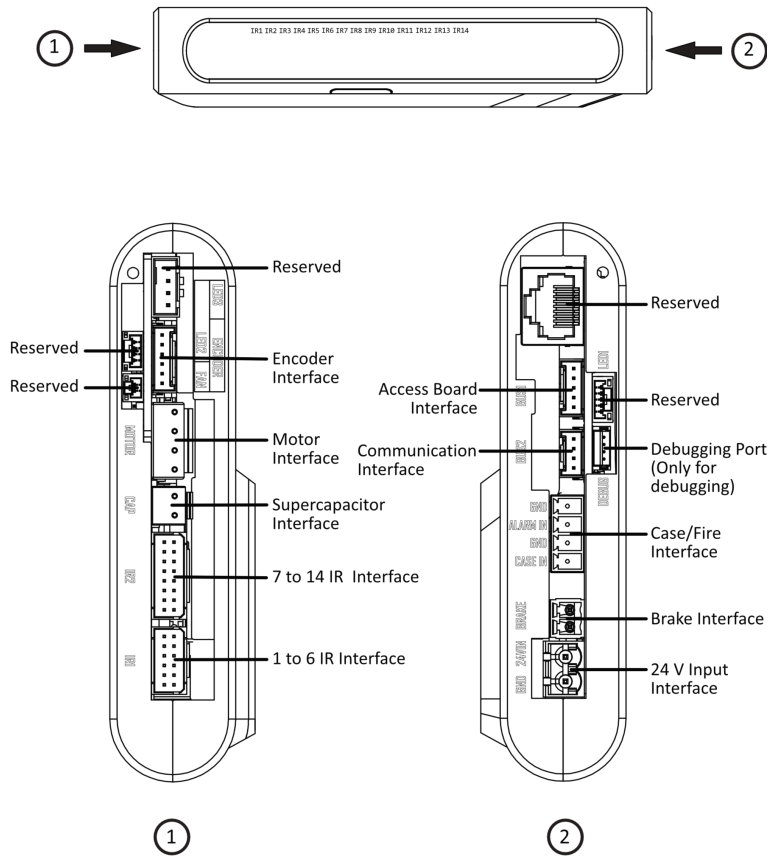

**Figure 4-1 General Wiring**

**Note**

- The power cable from power supply 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.

## 4.2 Main Control Board Terminal Description

The picture displayed below is the main control board diagram.




**Note**

The case/fire interface enables door opening.

## 4.3 Access Board

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.

**Note**

Only the main access board of the right pedestal contains SUB-1G antenna interface. Middle access board has no SUB-1G antenna interface.

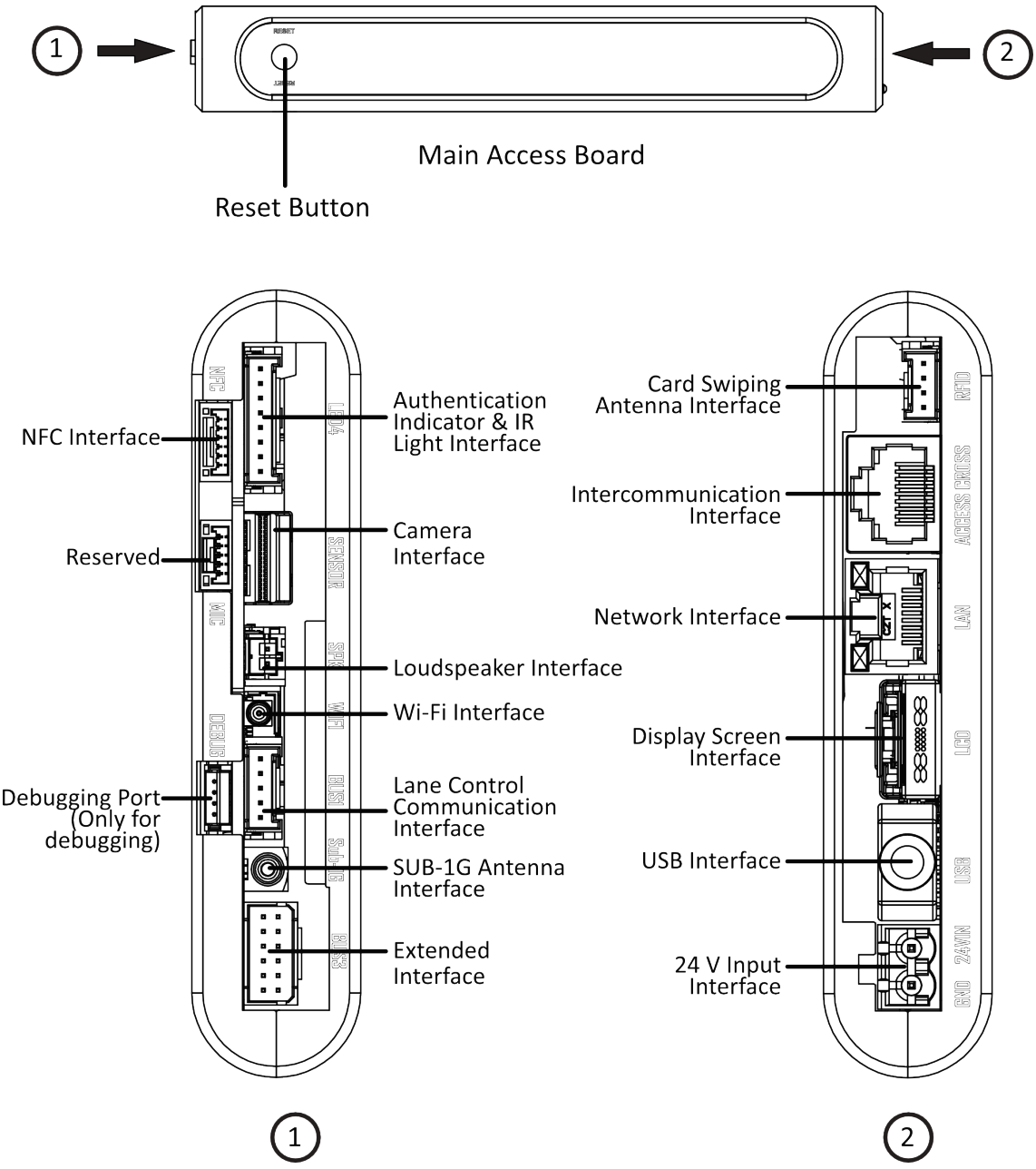



**Figure 4-2 Main Access Board**

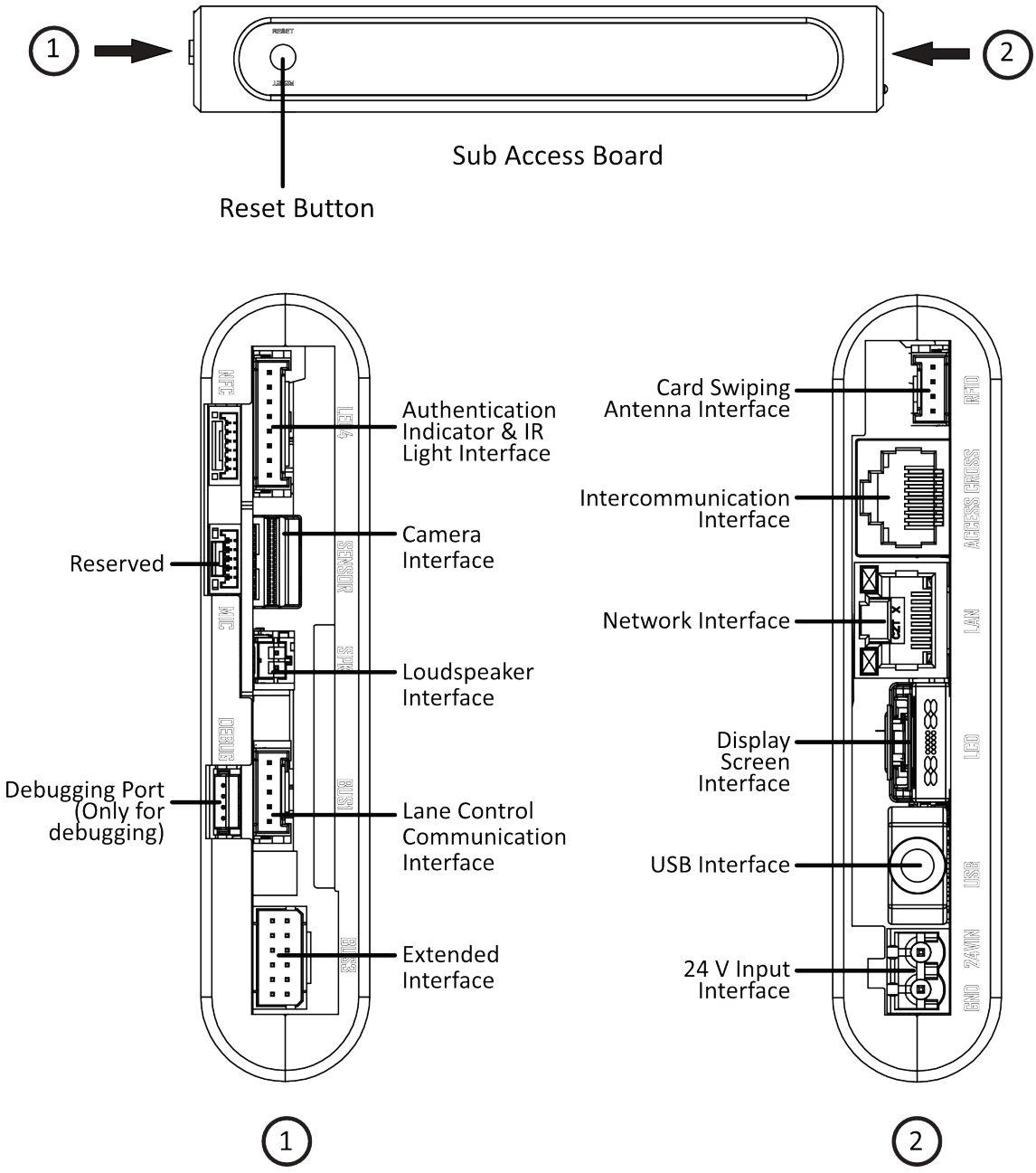



**Figure 4-3 Sub Access Board**

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

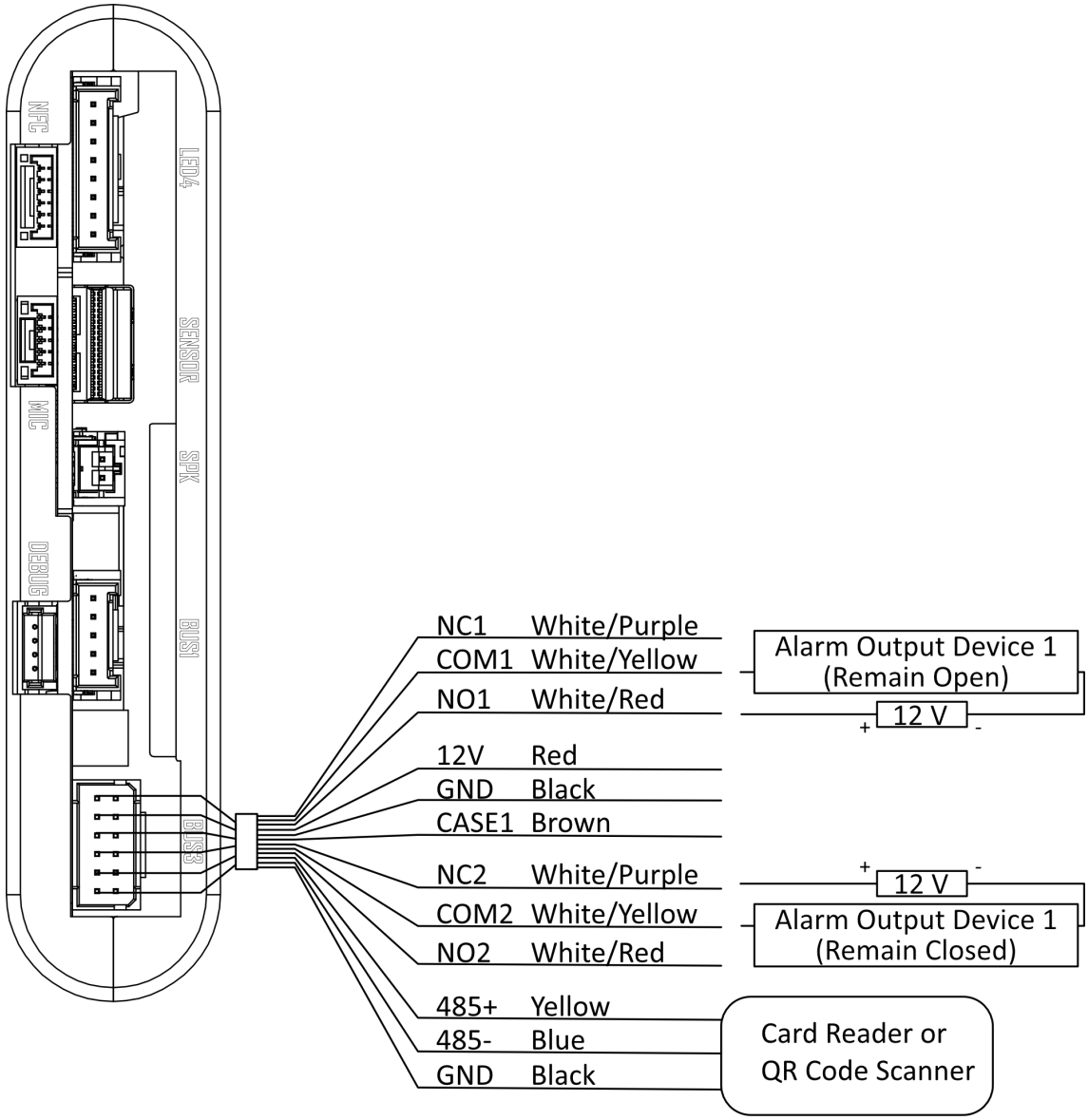



**Figure 4-4 Wring Diagram of BUS3 Interface**

## 4.4 Interface Board Description

The interface board can connect the card receiver, card reader, QR code scanner, people counting module, etc.

The interface board is shown as below:

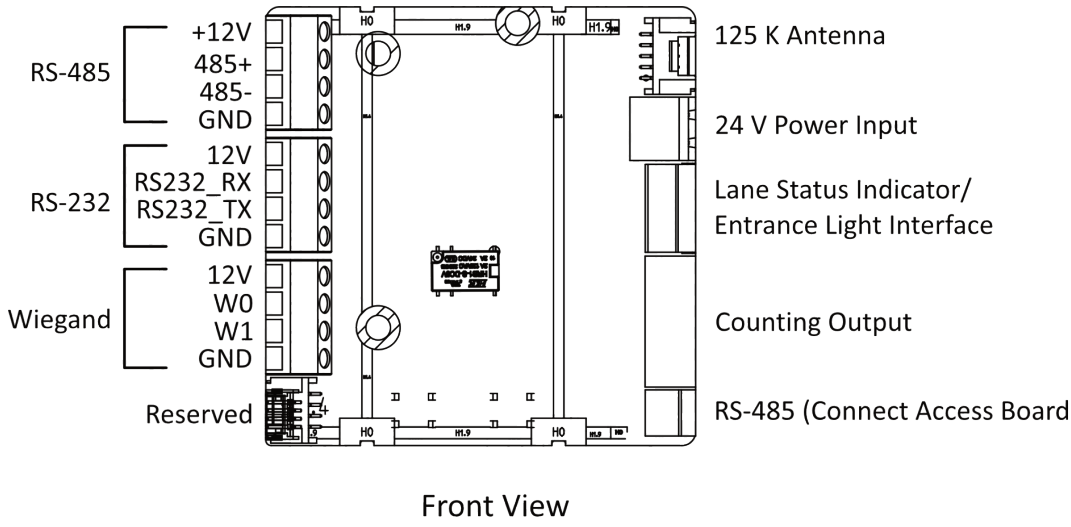



**Figure 4-5 Interface Board (Front)**

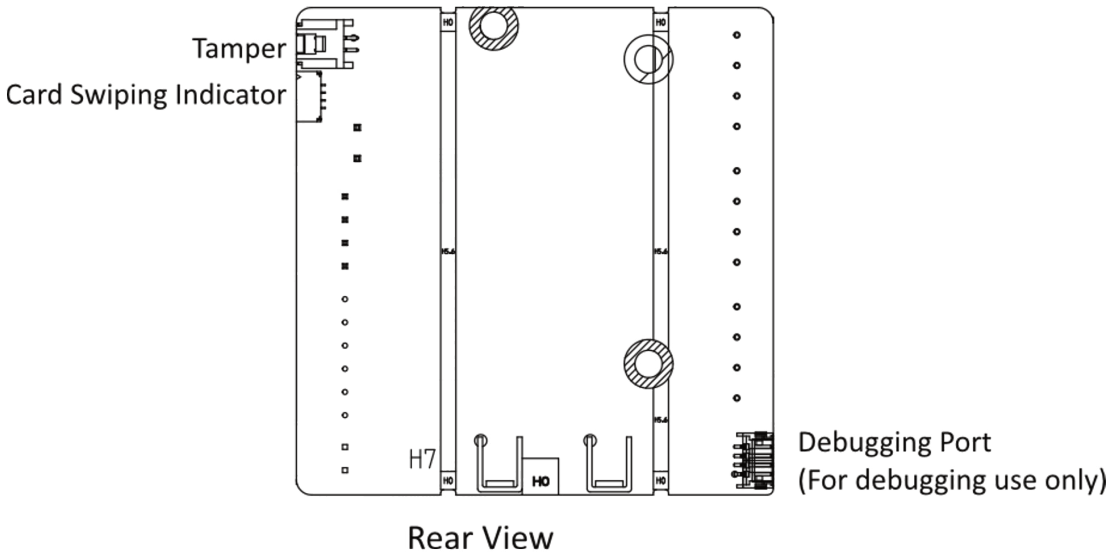



**Figure 4-6 Interface Board (Rear)**

## 4.5 Indicator Board

View the indicator board.

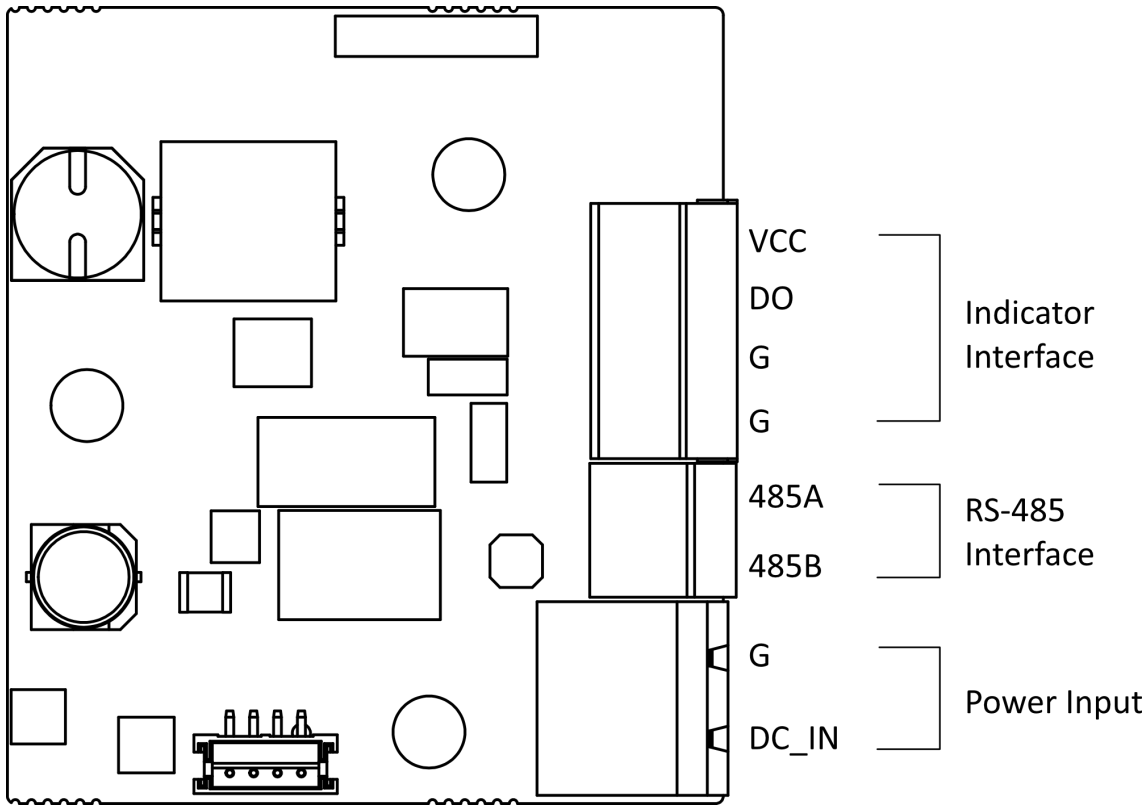



**Figure 4-7 Indicator Board**

## 4.6 Camera Board

View the camera board.

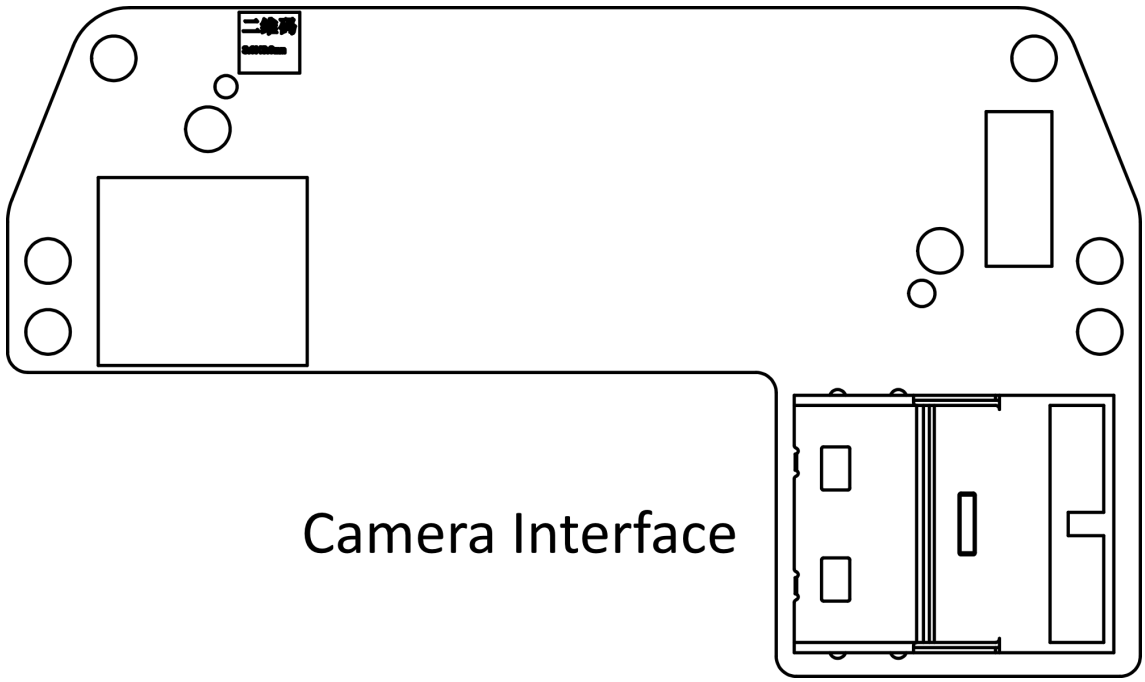



**Figure 4-8 Camera Board**

## 4.7 Alarm Input Wiring

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

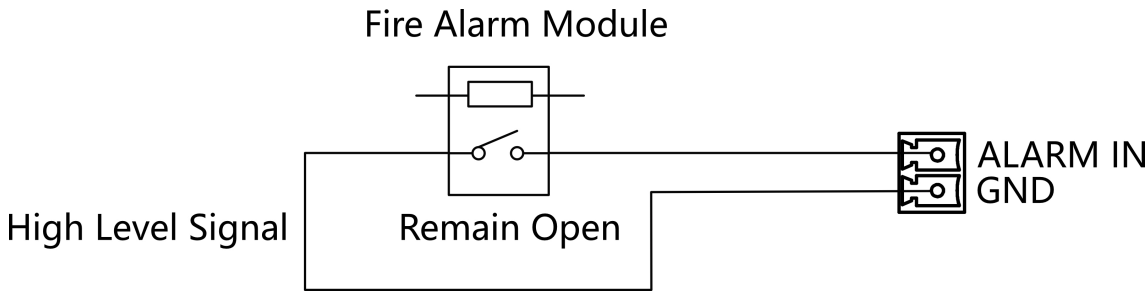



**Figure 4-9 Remaining Open**

## 4.8 Exit Button Wiring

You can view the exit button wiring diagram.

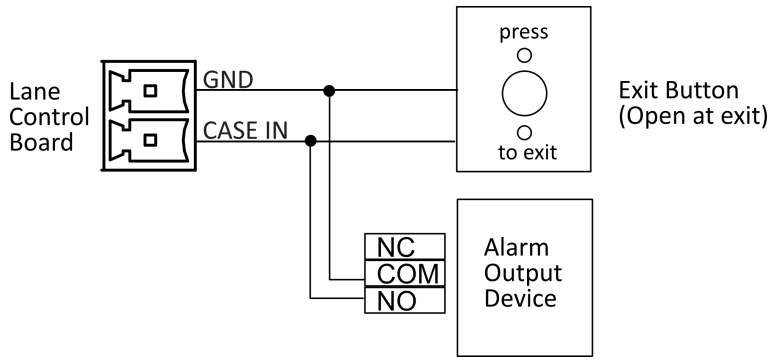



**Figure 4-10 Exit Button Wiring**

# Chapter 5 Reset Device

**Steps**

1. Hold the reset button.

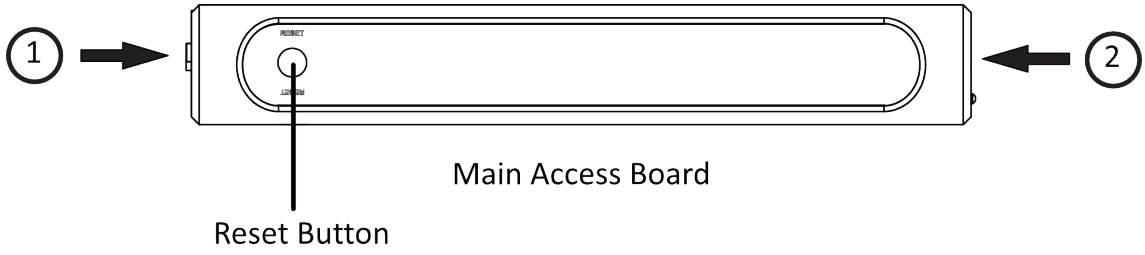



**Figure 5-1 Initialization Reset Position**

2. Hold the reset button for 5 s, the device will beep twice (main access board only) and start restoring to factory settings.

**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.

The resetting is completed.

# Chapter 6 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

## 6.1 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**

   - 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.
   - Do not contain following characters in the password: the user name, 123, admin (case-insensitive), 4 or more continuously increasing or decreasing digits, or 4 or more consecutively repeated characters.
   - Password cannot contain words such as hik, hkws, and hikvision (case insensitive).

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.

## 6.2 Activate via Mobile Web

You can activate the device via mobile web.

**Steps**

1. If device hotspot is disabled: Make sure your mobile phone and the device are connected to the same network. Place your phone to the NFC area and the device IP address will pop up, tap the address to go to the login page.
2. If device hotspot is enabled:
   - Android System: Place your phone to the NFC area and the name and password of the device hotspot will be obtained automatically. Confirm to connect, you will go to the login page.
   - iOS Ssystem: Enable the phone's Wi-Fi function, and connect to the current device's hotspot. After hotspot is connected, you will go to the login page.

**Note**

- Hotspot Name: AP_Serial No.
- Hotspot Password: Device's Serial No.

**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.

3. 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.

**Note**

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

4. Click **Activate**.
5. You can configure the turnsile basic parameters, keyfob settings, light settings, network settings, access control settings, etc.

## 6.3 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.

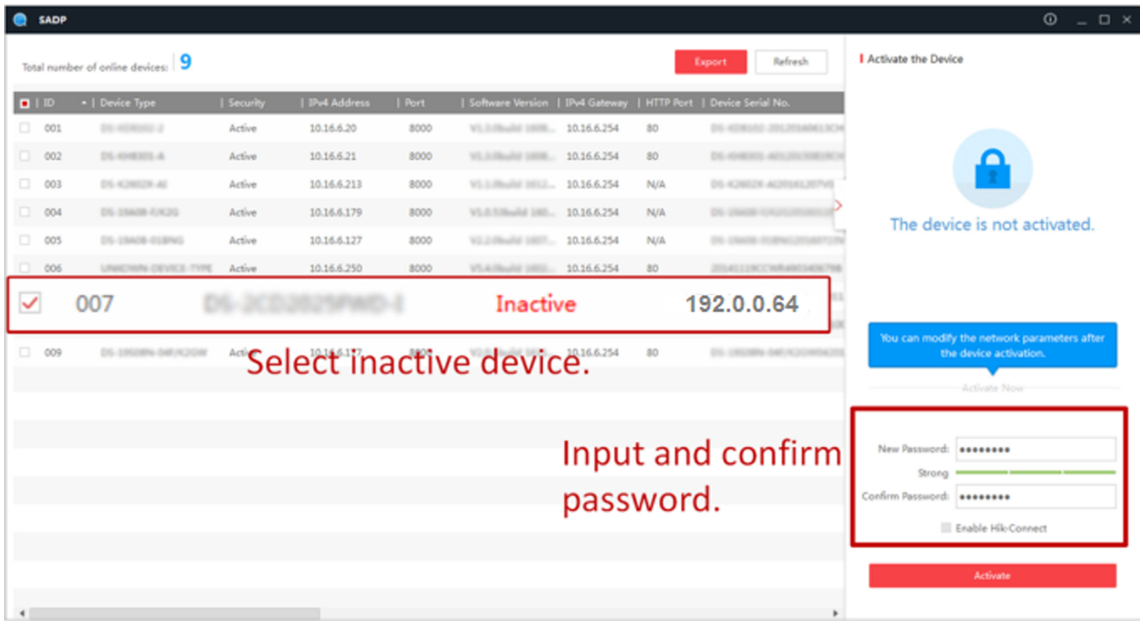
**Steps**

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.

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.

## 6.4 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.

# Chapter 7 Configure Device via Mobile Web

## 7.1 Login

You can login via mobile browser.

**Note**

Make sure the device is activated.

If device hotspot is disabled: Make sure your mobile phone and the device are connected to the same network. Place your phone to the NFC area and the device IP address will pop up, tap the address to go to the login page.

If device hotspot is enabled:

Android System: Place your phone to the NFC area and the name and password of the device hotspot will be obtained automatically. Confirm to connect, you will go to the login page.

iOS Ssystem: Enable the phone's Wi-Fi function, and connect to the current device's hotspot. After hotspot is connected, you will go to the login page.

Hotspot Name: AP_Serial No.

Hotspot Password: Device's Serial No.

## 7.2 Overview

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

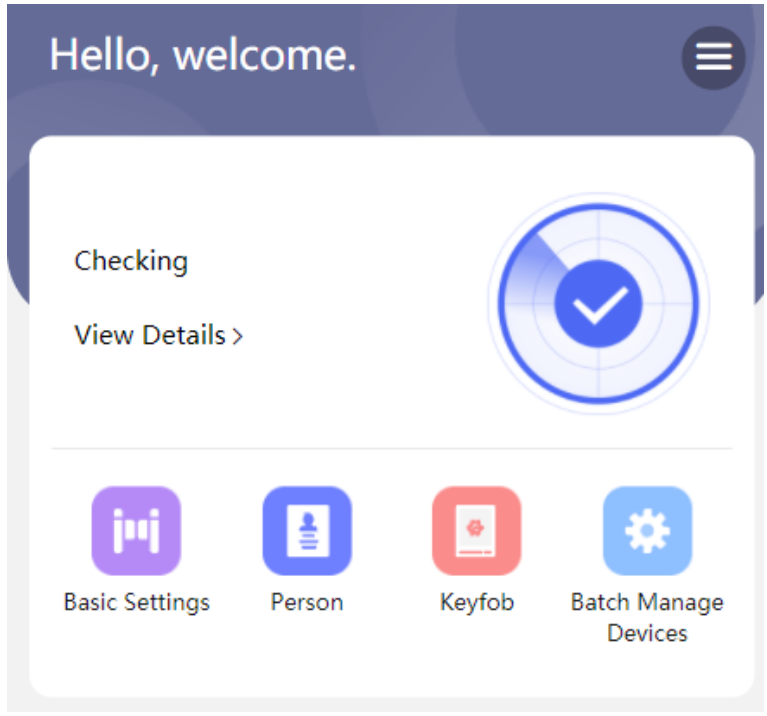



**Figure 7-1 Status and Quick Settings**

You can view the device status. If there is exception, you can tap to view the component details.

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

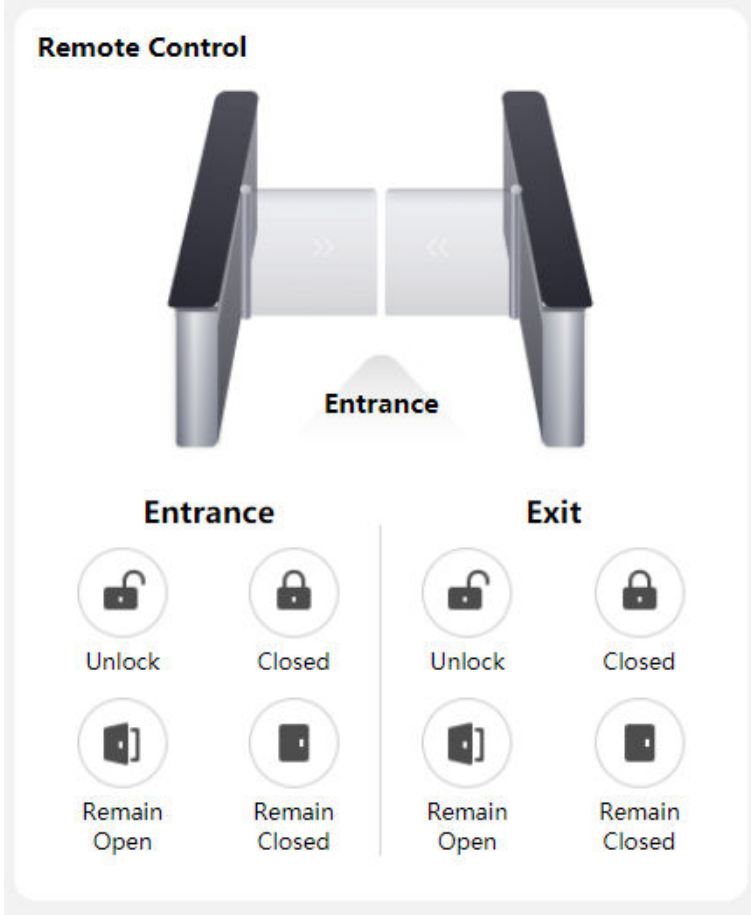



**Figure 7-2 Remote Control**

You can remotely control barrier by tap the icons.

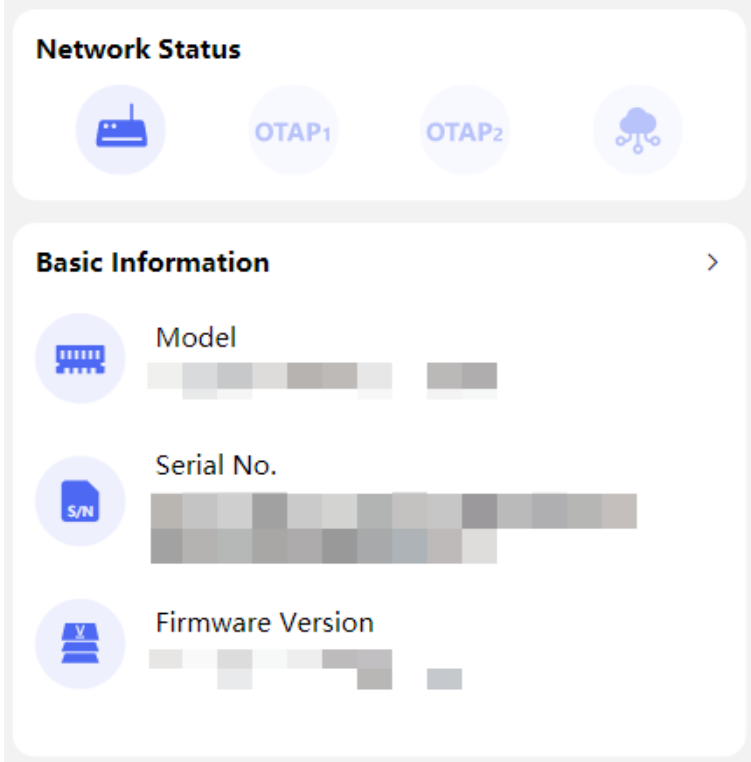



**Figure 7-3 Network Status and Basic Information**

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

## 7.3 Configuration

### 7.3.1 Turnstile Basic Settings

You can set the basic parameters of the turnstile.

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

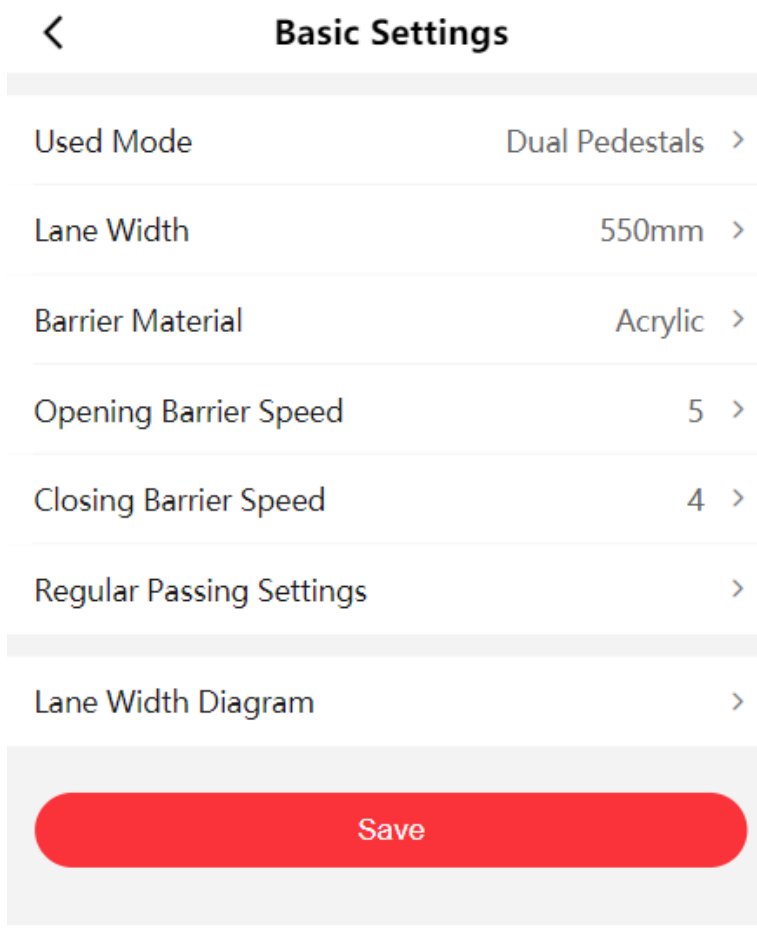



**Figure 7-4 Turnstile Basic Parameters**

Set **Used Mode**, **Lane Width**, **Barrier Material**, **Barrier Opening Speed** and **Barrier Closing Speed**.

**Used Mode**

Select **Single Pedestal** or **Dual Pedestals** according to actual needs.

**Single Pedestal**

When you only use one pedestal, you should select this option.

**Dual Pedestals**

When you only use dual pedestals, you should select this option.

**Barrier Material**

Select a barrier material according to actual situation.

**Lane Width**

Select a lane width according to actual situation.

**Barrier Opening Speed/Barrier Closing Speed**

Set the barrier opening or closing speed.

Tap **Regular Passing Settings** to set the entrance and exit's passing mode.
Tap **Lane Width Diagram** to view the device diagram.
Tap **Save**.

### 7.3.2 Person Management

Tap **Person** or tap → **Person Management** to enter the page.

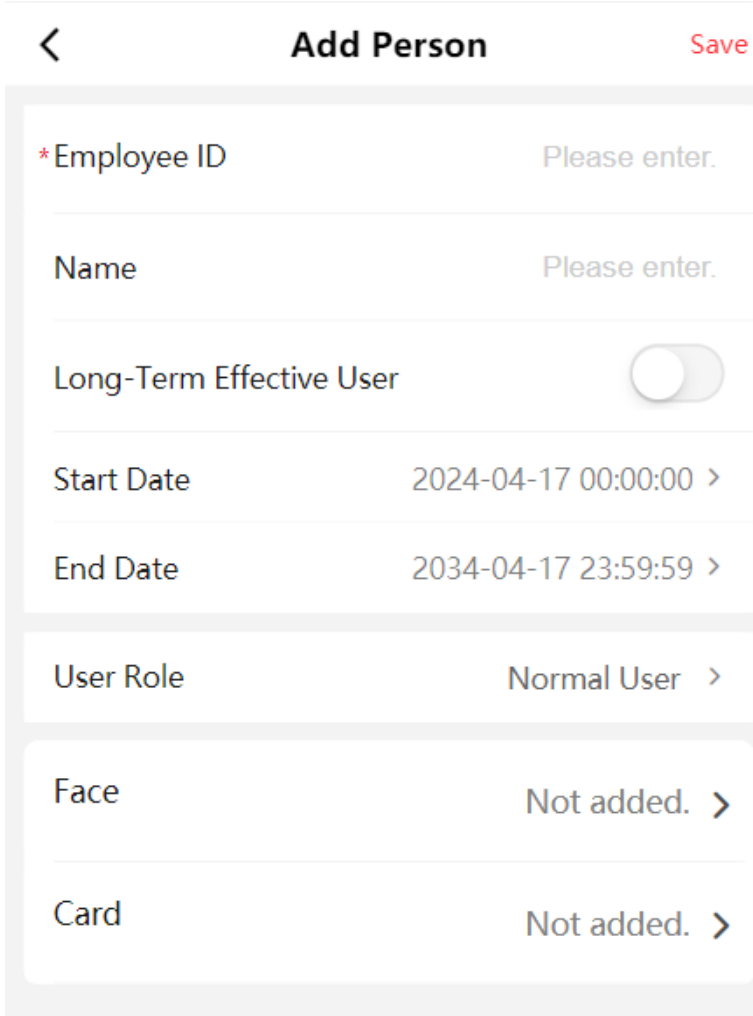



**Figure 7-5 Person Management**

#### Add Person Basic Information

On the person management page, tap **+**.
Create the person's employee ID, name, and select a user role.
Tap **Save**.

### Add Face Picture

On the person management page, tap **+** → **Face**.
Tap **+**, take a picture or select a picture.
Tap **Save**.

### Add Card

On the person management page, tap **+** → **Card**.
Tap **+**, enter the card No. and select a card property (type).
Tap **Save**.

### Set Person Permission

On the person management page, tap **+**.
Enable **Long-Term Effective User** and set the start time and end time of the person.
Tap **Save**.

### Person Management

Edit the person information on the management page.
Tap a person and edit the information.
Tap **Save**.

## 7.3.3 Keyfob Settings

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

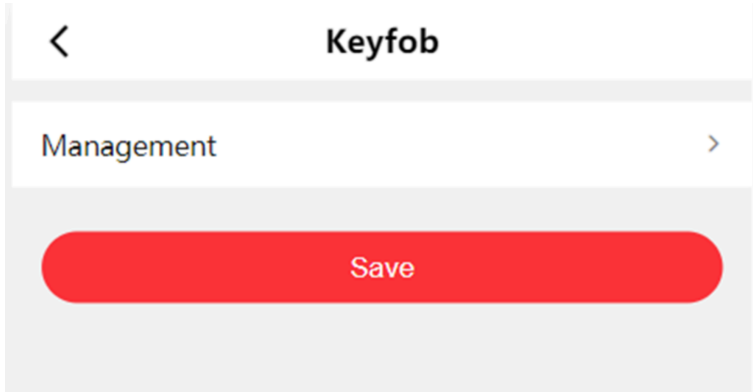



**Figure 7-6 Keyfob Settings**

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

### 7.3.4 Device Management

The mobile web can automatically detect online devices (main access controller) that are in the same network segment as the current mobile phone and automatically obtain the identified device information. You can view the model, activation status, IP, serial number, software version, gateway address, and IPv4 subnet mask of all devices in the same network segment. You can also view a single device's IP address of the main/sub access controller, synchronize the parameters with the sub access controller of the device, and edit the name of the main access controller of a the device. Batch network configuration, parameter synchronization, and device activation are also available for devices.

Tap**Batch Manage Devices** or tap → **Device Management** → **Batch Manage Devices** to enter the page.

#### Inactivated Device

You can do the following operations for the inactivated devices.
Tap and set the main access controller’s network of the device. Enter the administrator's password and tap **OK**.

**DHCP**

If disable the function, you should manually set IPv4 address, IPv4 subnet mask, and IPv4 default gateway.

If enabled the function, the system will allocate IPv4 address, IPv4 subnet mask, and IPv4 default gateway.

**IPv6 Mode**

**Manual**

Manually set IPv6 address, IPv6 subnet prefix length, and IPv6 default gateway.

**DHCP**

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

**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.

#### Activated Devices

You can do the following operations for the activated devices.
Click a device in the list. Tap **Network Settings**. You can view the main access controller and sub access controller’s basic information and set the network. Enter the administrator's password and tap **OK**.

**DHCP**

If disable the function, you should manually set IPv4 address, IPv4 subnet mask, and IPv4 default gateway.

If enabled the function, the system will allocate IPv4 address, IPv4 subnet mask, and IPv4 default gateway.

**IPv6 Mode**

**Manual**

Manually set IPv6 address, IPv6 subnet prefix length, and IPv6 default gateway.

**DHCP**

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

**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.

Click a device in the list. Tap **Sync Parameters**. You can synchronize the selected device with this device. Enter the administrator's password and tap **Confirm**.
Tap and you can set the name of the main access controller of the device. Enter the administrator's password and tap **Save**.

## Batch Settings

You can do the following batch operations for devices.
On the Activated page, tap **Set Network Parameters**. Select the devices that you need to set network, and tap **Set Network Parameters**. After network settings, tap **OK**.

**DHCP**

If disable the function, you should manually set IPv4 address, IPv4 subnet mask, and IPv4 default gateway.

If enabled the function, the system will allocate IPv4 address, IPv4 subnet mask, and IPv4 default gateway.

**IPv6 Mode**

**Manual**

Manually set IPv6 address, IPv6 subnet prefix length, and IPv6 default gateway.

**DHCP**

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

**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.

On the Activated page, tap **Batch Parameters Sync**. Select the devices that you need to set network, and tap **Batch Parameters Sync**. You can synchronize the selected devices with this device. Enter administrator's password and tap **Confirm**.
On the Inactivated page, tap **Batch Activate**. Select the devices that you need to activate, and tap **Batch Activate**. Enter administrator's password and tap **Confirm**.

### 7.3.5 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, face, card and event.

Tap **Save**.

### 7.3.6 Time Settings

View current time and set the time zone.

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

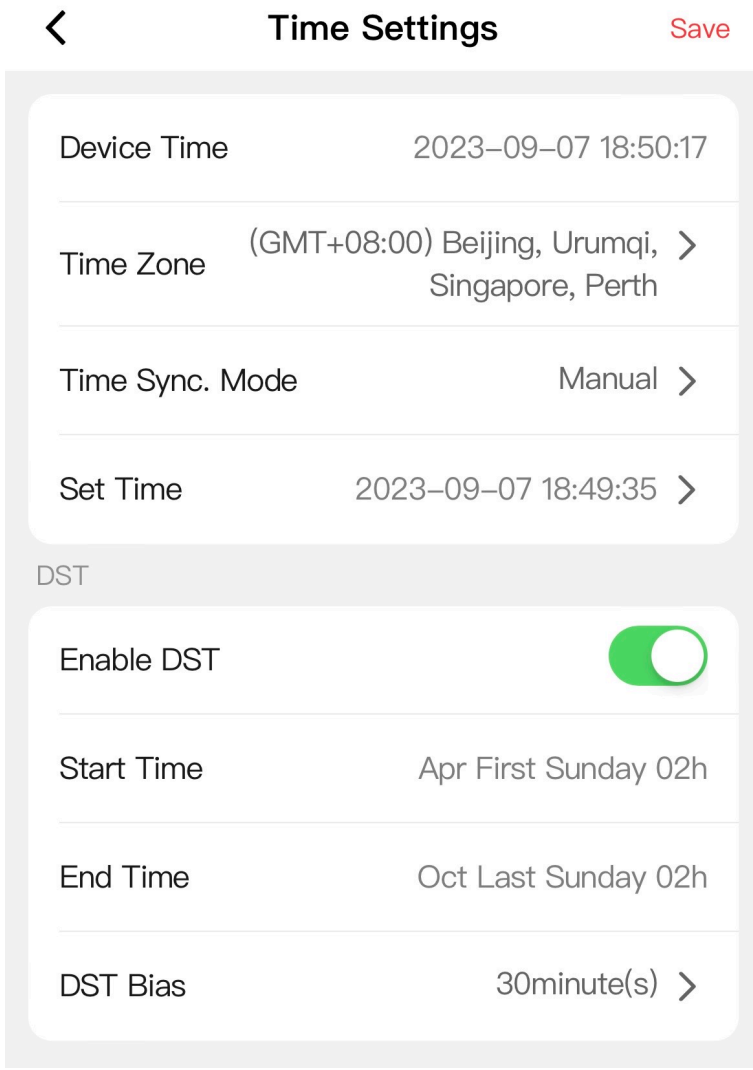



**Figure 7-7 Time Settings**

**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**.

### 7.3.7 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**.

### 7.3.8 Network

#### Wired Network

Set wired network.

Tap → **Network Settings** → **TCP/IP** 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 Device Hotspot

After enabling the device hotspot, you can use the mobile phone to connect the hotspot and set.

On the home page, tap → **Network Settings** → **Device Hotspot** .

Slide to **Enable Device Hotspot**, set hotspot's **Name**, enter password and confirm it. Tap **Save**.

## 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 Protocol

You can access the device to the maintenance platform by OTAP protocol to realize searching and gaining device information, uploading device running status and exceptions, rebooting and upgrading.

**Steps**

1. Tap → **Device Access → OTAP** .

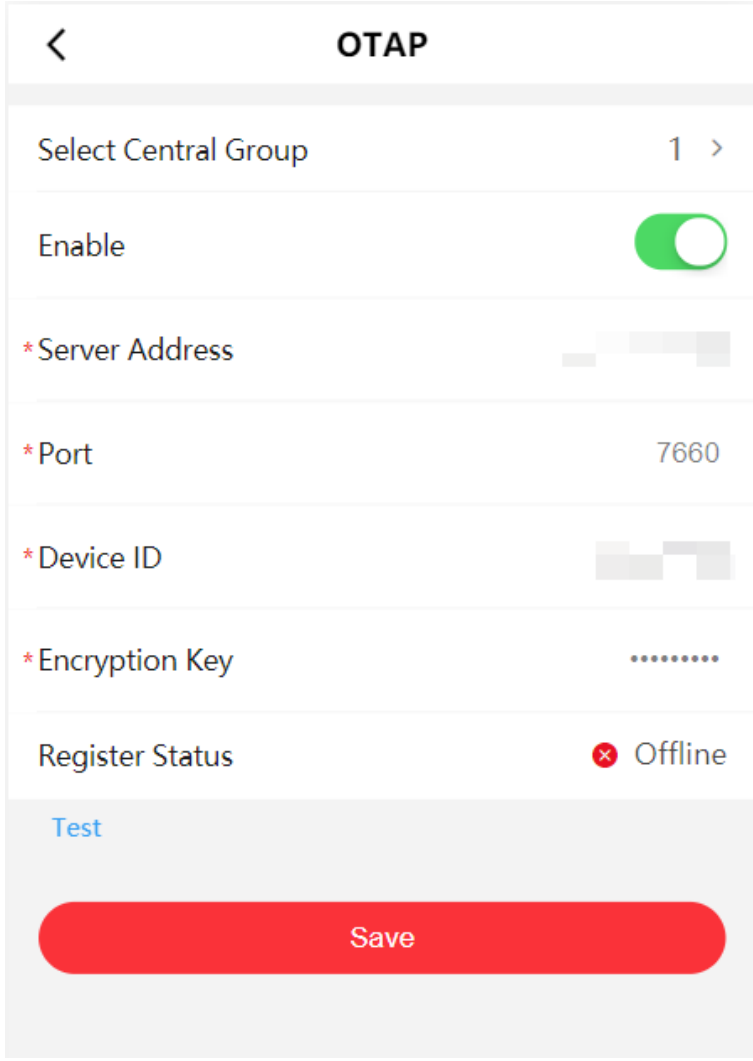



**Figure 7-8 OTAP**

2. Select 1 or 2 from **Select Central Group**.
3. Slide **Enable**.
4. Set server address, port, device ID and encryption key.
5. Tap **Test**, and make sure the device can connect to the server and registration completed.
6. Tap **Save**.

**Result**

Refresh the web page or reboot the device to make sure the OTAP's **Register Status** turns to online.

### Set Network Penetration Service

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

**Steps**

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

## 7.3.9 Sub Access Control Board Settings

The mobile web automatically detects the sub access controller paired with the IP address of the current computer. You can view the information of the sub access controller of the device and set network parameters.

**Steps**

1. Tap → **Device Management** → **Sub Access Control Board** .
2. Tap **Network Settings** and set the IP address, gateway address, subnet mask, and communication port. Enter the administrator's password and tap **Save**.
3. Tap **Device Details** and you can view the device name, language, model, serial No., version, and alarm input/output number.

## 7.3.10 Event Search

Tap → **Event Search** .

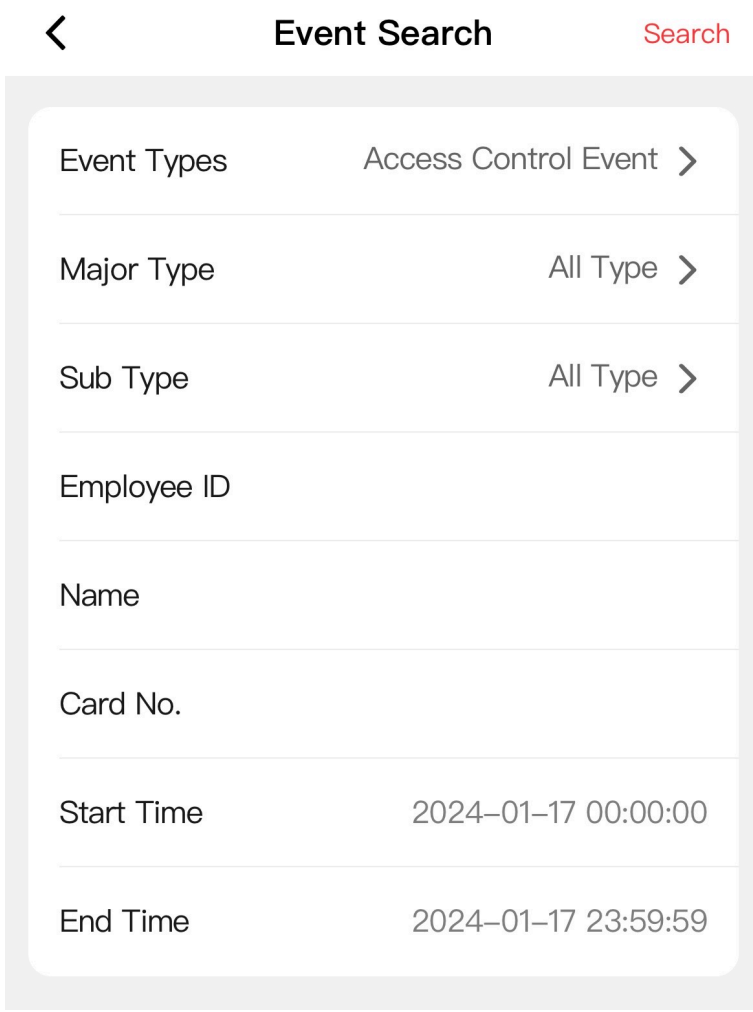



**Figure 7-9 Event Search**

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.

### 7.3.11 Audio Settings

You can enable or adjust the audio.

Tap → **Audio**.

Enable **Enable Voice Prompt** according to actual needs. The device will prompt voice instructions. You can also adjust the output volume.

Tap **Save**.

### 7.3.12 Access Control Settings

### Set Authentication Parameters

Set authentication parameters.

**Steps**

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

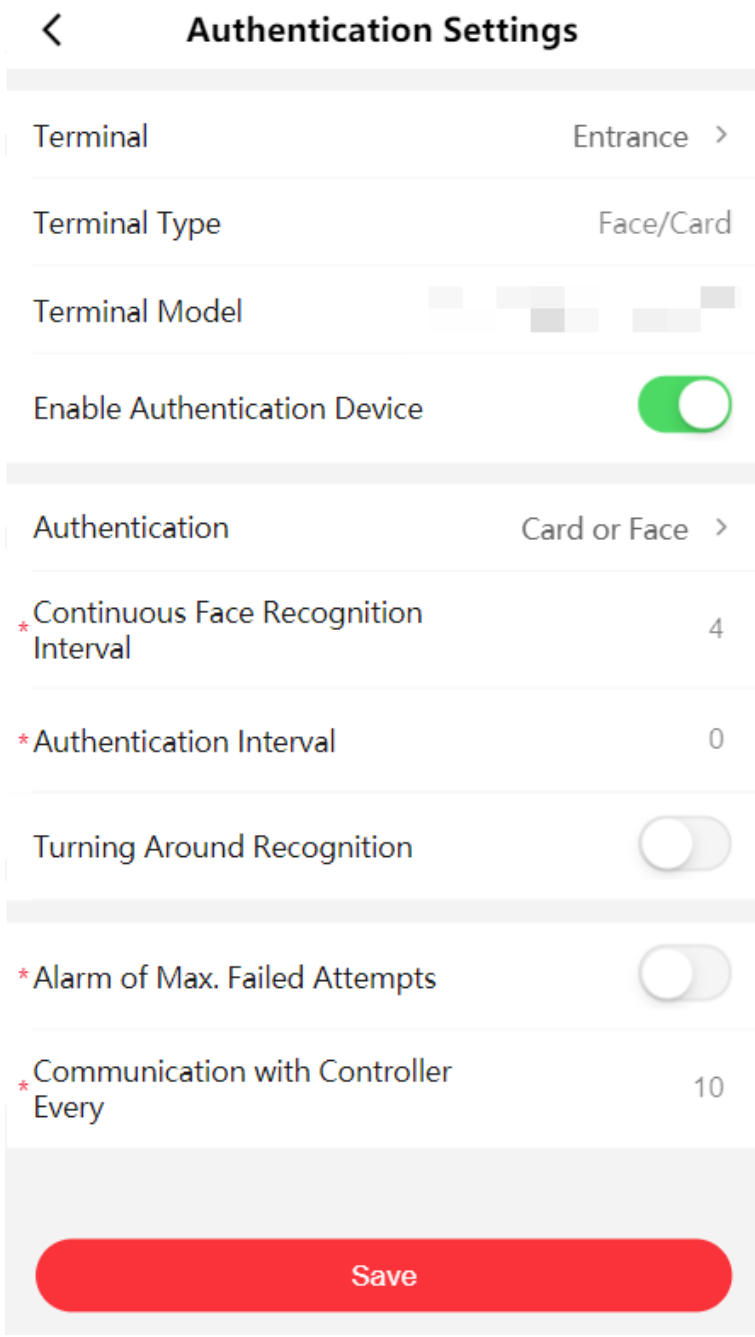



**Figure 7-10 ⍰⍰配置**

**2.** After settings, tap **Save**.

**Terminal**

Select terminal for settings.

**Terminal Type**

Display the terminal's type. Read only.

**Terminal Model**

When the terminal is online, it will display the terminal's model, or it will display offline. (Read-only)

**Enable Authentication Device**

If enable the function, you can authenticate credential on the terminal; or you cannot use credential to authenticate.

**Authentication**

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

**Continuous Face Recognition Interval**

Set the interval between 2 continuous recognition of a same person during the authentication. In the configured interval, the same person can only recognized once.

**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 there is another person authenticate in the configured interval, the person can authenticate again.

**Turning Around Recognition**

When enable the function, after authentication from one side, the device will not authenticate the passing person from the other side within the configured interval.

**Alarm of Max. Failed Attempts/Max. Authentication Failed Attempts**

Enable **Alarm of Max. Failed Attempts** and you can set the max. authentication failed attempts. When the authentication attempts reach the set value, the authentication will be failed and report to center.

**Communication with Controller Every**

If the card reader cannot communicate with the controller within the configured time duration, the card reader will be regarded as offline.

## Set Door Parameters

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

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

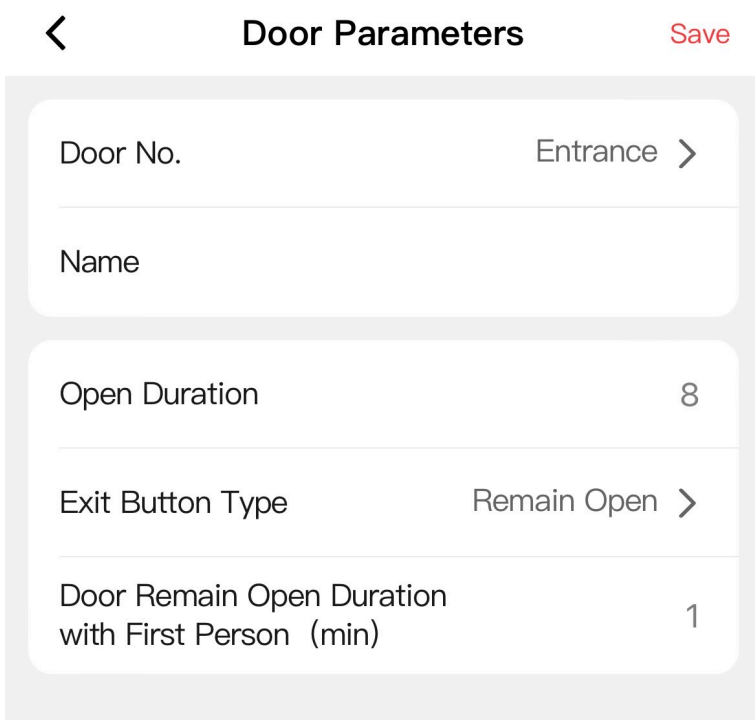



**Figure 7-11 Door Parameters**

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.

## Elevator Control Settings

**Steps**

**1.** Tap → **Access Control** → **Elevator Control Parameters**.

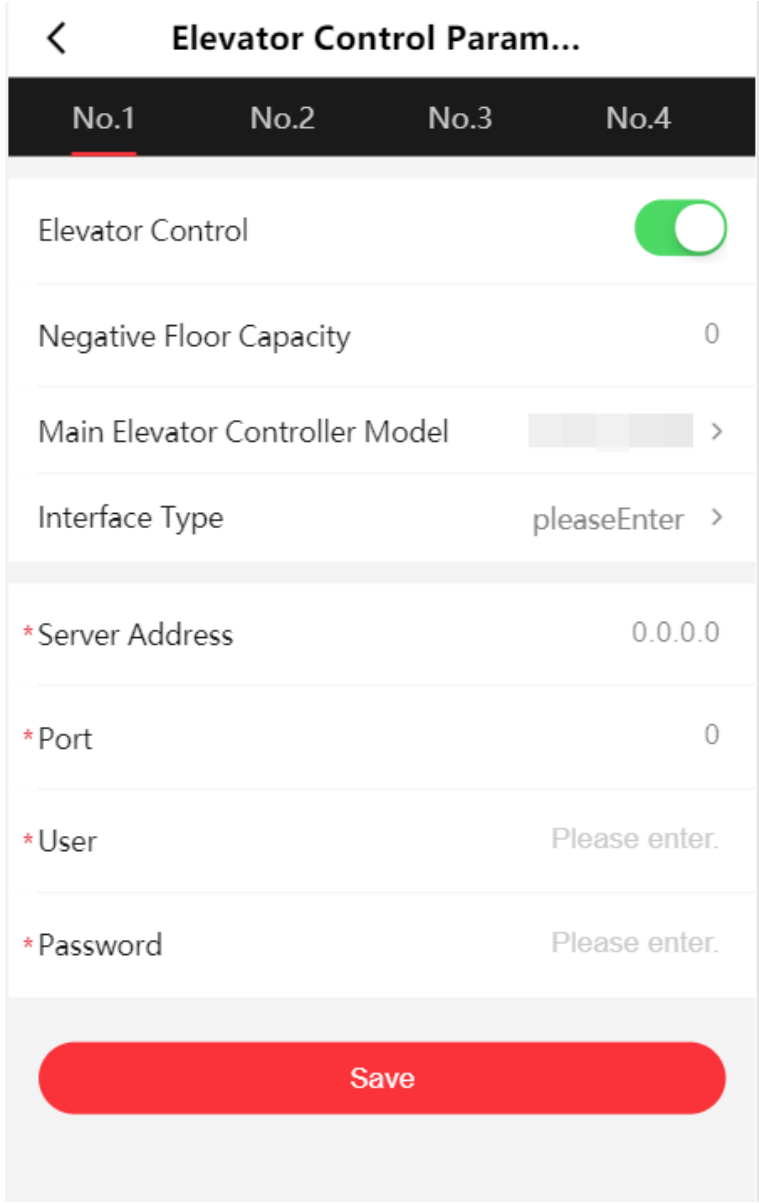



**Figure 7-12 Elevator Control Parameters Settings**

2. Select **No.** as the elevator's No. Tap to enable **Elevator Control**.

**Negative Floor Capacity**

Enter the negative floor number that the elevator can control.

**Main Elevator Controller Model**

Select the main elevator controller's model.

**Interface Type**

Select the connection type between the elevator controller and the turnstile. If you select **Network Interface** as interface type, you should set server address, port, user, and password.

3. Tap **Save**.

## Terminal Settings

Set the working mode.

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

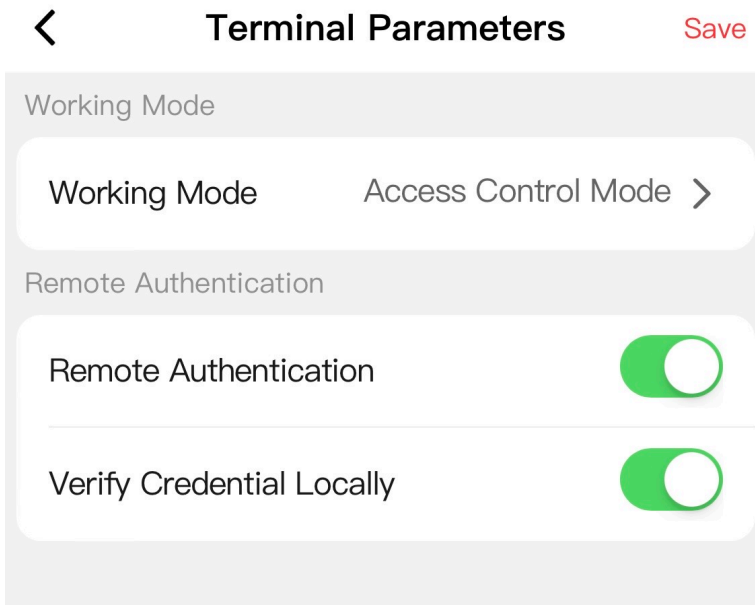



**Figure 7-13 Terminal Parameters**

**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** .

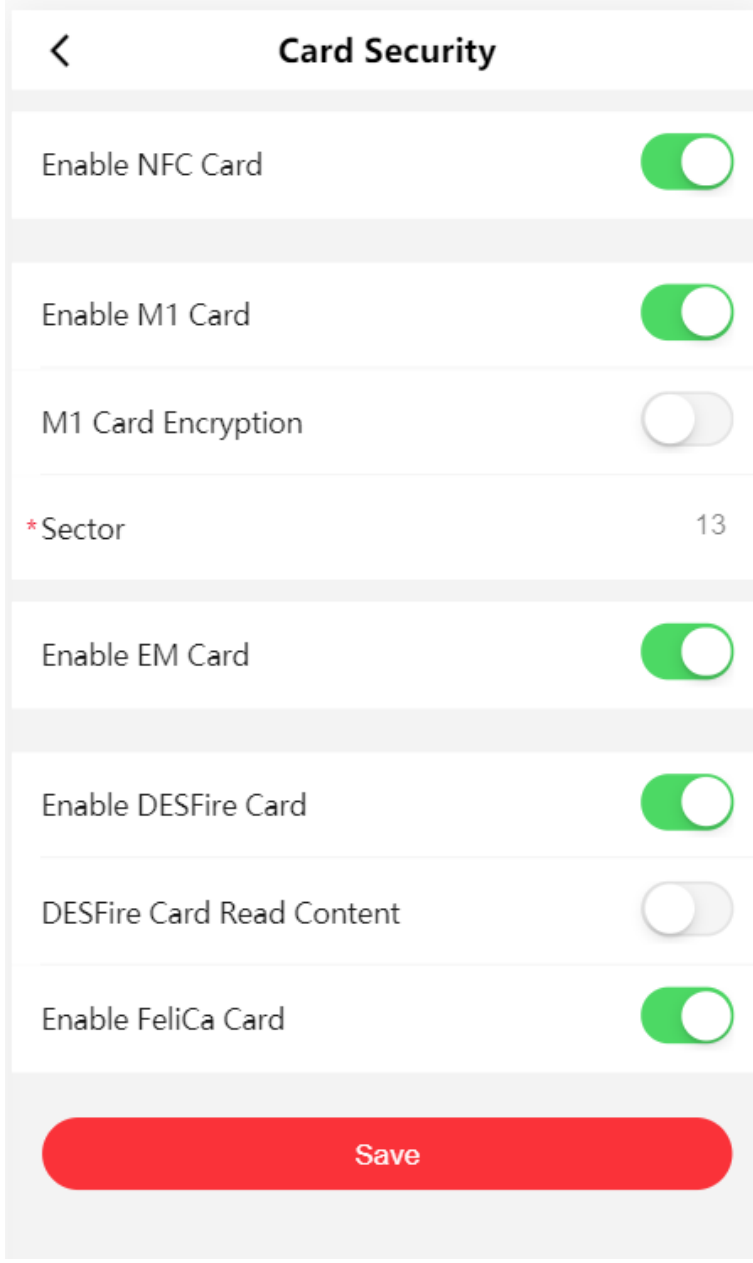



**Figure 7-14 Card Security**

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.

### 7.3.13 Set Face Parameters

Tap → **Smart** → **Face Recognition Parameters** to enter the configuration page.

**Note**

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

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

**Terminal**

Select **Entrance** or **Exit** as the terminal direction.

**Face Anti-spoofing**

Enable or disable the live face detection function. If enabling the function, the device can recognize whether the person is a live one or not.

**Note**

Biometric recognition products are not completely applicable to anti-spoofing environments. If you require a higher security level, use multiple authentication modes.

**Live Face Detection Security Level**

After enabling the face anti-spoofing function, you can set the matching security level when performing live face authentication.

**Recognition Distance**

Select the distance between the authenticating user and the device camera.

**Application Mode**

Select either others or indoor according to actual environment.

**1:1 Matching Threshold**

Set the matching threshold when authenticating via 1:1 matching mode. The larger the value, the smaller the false accept rate and the larger the false rejection rate.

**1:N Matching Threshold**

Set the matching threshold when authenticating via 1:N matching mode. The larger the value, the smaller the false accept rate and the larger the false rejection rate.

**Face Recognition Timeout Value**

Set the timeout value when face recognizing. If the face recognition time is longer than the configured value, the system will pop up a prompt.

**Face Recognition Area**

You can set the face recognition area when authentication.

Select the terminal as **Entrance** or **Exit**.

Set **Margin (Left)**, **Margin (Right)**, **Margin (Top)**, and **Margin (Bottom)**. When authenticating, the person should in the configured area. Tap **Save**.

## 7.3.14 Set ECO Mode

After enabling the ECO mode, the device will use the IR camera to authenticate faces in the low light or dark environment.

Tap → **Smart** → **ECO Mode Settings** to enter the configuration page.

**Note**

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

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

**Terminal**

Select **Entrance** or **Exit** as the terminal direction.

**ECO Mode**

After enabling the ECO mode, the device will use the IR camera to authenticate faces in the low light or dark environment. And you can set the ECO mode threshold, ECO mode (1:N), and ECO mode (1:1).

**Enable Mode**

You can set **Auto** or **Time to Sleep** to enable the ECO mode.

When you select **Time to Sleep**, you should tap **Time Schedule** to set the time duration that the device will enable ECO mode. Tap **Save**.

**ECO Mode Threshold**

The larger the value, the device enter the ECO Mode easier.

**ECO Mode (1:1) Threshold**

Set the matching threshold when authenticating via ECO mode 1:1 matching mode. The larger the value, the smaller the false accept rate and the larger the false rejection rate.

**ECO Mode (1:N) Threshold**

Set the matching threshold when authenticating via ECO mode 1:N matching mode. The larger the value, the smaller the false accept rate and the larger the false rejection rate

### 7.3.15 Set Face Mask Parameters

After enabling the face without mask detection, the system will recognize the face with mask or not.

**Steps**

1. Tap → **Smart** → **Face Mask Detection Parameters** to enter the configuration page.

**Note**

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

2. After enabling the face with mask detection, the system will recognize the face with mask or not.

**Terminal**

Select **Entrance** or **Exit** as the terminal direction.

**Face with Mask Detection**

Enable the function and the device will detect the person whether wearing a face mask or not.

**Face with Mask & Face (1:1)**

Set the matching value when authenticating with face mask via 1:1 matching mode. The larger the value, the smaller the false accept rate and the larger the false rejection rate.

**Face with Mask 1:N Matching Threshold**

Set the matching threshold when authenticating with face mask via 1:N matching mode. The larger the value, the smaller the false accept rate and the larger the false rejection rate.

**Face withouth Mask Strategy**

Select a strategy when detect person not wearing a face mask.

**None**

The function is disabled. The device will not detect whether a person is wearing a face mask or not.

**Reminder of Wearing Face Mask**

If the person do not wear the face mask when authenticating, the device will pop up a prompt and the door will open.

**Must Wear Face Mask**

If the person do not wear the face mask when authenticating, the device will pop up a prompt and the door will keep closed.

3. Click **Save**.

### 7.3.16 Turnstile Parameters Settings

## IR Detector Settings

Set the IR detector parameters.

**Steps**

1. Tap → **IR Detector Settings** to enter the configuration page.
2. Set **Inductive Mode (Entrance)** and **Inductive Mode (Exit)**.
3. You can customize IR detector.

**Exceptional IR Auto Shield**

If the IR detector is damaged, the IR detector can be shielded to temporarily restore the lane to use, but it may cause injury to passers-by when the barrier is open and closed.

**Note**

Exceptional IR auto shield function is a short-term shield. If there is no exception for 1 hour, it will restore.

**IR Emergency Mode**

If some IR beams do not work properly, you can shield those IR beams to restore the lane. But this action may hit person and cause injury.

**Enable Custom Anti-pinch for Door Closing**

Anti-pinch for door closing is used when the device detects that there are still people staying in the lane when the barrier closes, the barrier will not close. The barrier will close only when the person has completely exited the lane. When you enable the function, you can shield some IR detectors, so that the barrier can be closed in advance after people pass, but it may injure passers-by when the barrier is open and closed.

It is recommended to enable the function.

4. Tap **Save**.

## People Counting Settings

Set people counting.

**Steps**

1. Tap → **People Counting Settings** to enter the configuration page.
2. Enable **People Counting**, and the devcie will count passing person's number.
3. Enable **Device Offline People Counting**, and the device will count people numbers even if it is offline.
4. Enable **Passing Event Record**, and the device will upload each person's passing event.
5. Set **Person 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.
6. Set **Passing Direction** and you can set the passing direction of the device.
7. Tap **Clear** to clear all people counting information.
8. Tap **Save**.

## Passing and Authentication Indicator Settings

Set the passing and authentication indicator's light brightness.

Tap → **Light** → **Passing and Auth. Indicator** to enter the configuration page.

Set **Light Brightness** as **Auto** or **Manual**. If select **Manual**, you should move the block to adjust the brightness.

## Other Configurations

Tap → **Other Settings** .

Set the basic parameters.

**Alarm Output Duration**

Set duration as 0 means remaining output.

**Temperature Unit**

Select temperature unit.

**Do Not Open Barrier When Lane is Not Clear**

When enabled, the barrier will not open when people is authenticated in the lane.

**Lightboard Brightness**

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

**Barrier Closing Delay**

After a person passes through the lane, the barrier will close after the set time period.

**Intrusion Duration**

If a person mistakenly enters the lane for more than the set time, or if the person passes longer than the set time, the device will start alarming.

**Overstaying Duration**

If someone or something is detected to be stuck in the lane for more than the set time, the device will start alarming.

**IR Obstructed Duration**

If the infrared target is obstructed for more than the set time, the device will start alarming. 0 indicates that the function is not enabled.

**Anti-Passback Rule**

Set the anti-passback rule as **By Authentication Status** or **By Passing Status**.

**By Authentication Status**

The person should pass the authentication or the anti-passback will be failed.

**By Passing Status**

The person cannot pass the authentication and the anti-passback will be completed.

**Memory Mode**

You can Slide **Enable** 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.

**Control Mode**

**Soft Mode**

The barrier will be closed after the person has passed through the barrier when there are tailgating, forced accessing, etc.

**Guard Mode**

The barrier will be closed immediately when there are tailgating, forced accessing, etc.

**Fire Input Type**

You can set the signal as **Remain Closed** or **Remain Open**. In the remain open state, closing triggers fire protection. In the remain closed state, disconnection triggers fire protection.

**Invert Entrance and Exit Direction**

If enable the function, the entrance and exit direction will be inverted.

**Barrier Open Angle**

Tap **Barrier Open Angle** and set the angle. The barrier can open the configured angle.

**Note**

You can set the angle between 85° and 91°. 0.1° is the minimum adjust unit.

Tap **Save**to enable the settings.

### 7.3.17 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.

### 7.3.18 Device Debugging

You can finish studying and self-test, and mange the debugging.

Tap → **Device Debugging** .

**Lane Studying/Motor Self-Test**

**Lane Studying**

Tap **Lane Studying**, and the device will enter the studying mode. It will study the closed position of the barrier.

**Motor Self-Test**

Tap **Motor Self-Test**, and the device motor will start self-test.

**Encoder Self-Test**

1. Select a lane and start encode test.
2. Make sure the barrier is in the close position. Tap **OK**.
3. Rotate the barrier to the open position. Tap **Stop Testing**.
4. Wait for the result.

**IR Self-Test**

Select a channel (lane) and tap **IR Self-Test**, the device will test all IR detectors. After enabling IR self-test function, the device will sound to exit the channel (lane) before opening/closing. The barrier is forced to open in entrace/exit at the highest speed, at this time IR anti-pinch is defunct. If IR is triggered or blocked, the device will sound detection failure.

**Note**

Make sure there are no person in the lane.

**Debugging Command Management**

Select a command type and select the command or tap the command manually. Tap **Send**. The command will send to the device.

When the command is complete, you can see the result in the page.

Tap **End Debugging** to finish the debugging.

**Note**

If you do not tap End Debugging, the device will end the debugging mode within 7×24 hours automatically.

**IR Exception Info.**

Tap **Export** to export the exceptional IR detectors reports.

**Demo Mode**

After enabled, the device will automatically add and authenticate after face recognition.

You can set the validity period.

If disabled, all person information added in the demo mode will be cleared after disabled.

### 7.3.19 View User Document

View the user document.

**Note**

Only when you enter the mobile web by IP address, can you view the user document. Login by hot spot does not support the function.

Tap ☰ to enter the page.

Tap **View Online Document** to view the user manual.

### 7.3.20 Open Source Software Licenses

You can view the open source software licenses.

Tap ☰ to enter the page.

Tap **Open Source Software Licenses**.

### 7.3.21 Log Out

Log out the configuration page.

Tap ☰ → **Logout** , tap **OK**.

If you need to enter the configuration page, you need to enter the user name and password again.

# Chapter 8 Operation via Web Browser

## 8.1 Login

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

**Note**

Make sure the device is activated.

### 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.

## 8.2 Forget Password

If you forget the password when logging in, you can change the password by email address or security questions.

On the login page, click **Forget Password**.

Select **Verification Mode**.

**Security Question Verification**

Answer the security questions.

**E-mail Verification**

1. Export the QR code and send it to ***pw_recovery@hikvision.com*** as attachment.
2. You will receive a verification code within 5 minutes in your reserved email.
3. Enter the verification code into the verification code field to verify your identification.

Click **Next**, create a new password and confirm it.

## 8.3 Download Web Plug-In

Both non-Plug-in live view and live view after downing plug-in are available. For better live view, downloading plug-in for live view is recommended.

Click → **Download Web Pug-In** to download the pulg-in to the local.

## 8.4 Help

### 8.4.1 Open Source Software Licenses

You can view open source software licenses.

Click → **Open Source Software Statement** on the upper-right corner to view the licenses.

### 8.4.2 View Online Help Document

You can view the help document for Web configuration.

Click → **Online Document** on the upper right of the Web page to view the document.

### 8.4.3 Logout

Log out the account.

Click **admin → Logout → OK** to logout.

## 8.5 Quick Operation via Web Browser

### 8.5.1 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 **Next** to save the settings and go to the next parameter. Or click **Skip** to skip time settings.

### 8.5.2 Environment Settings

After activating the device, you should select an application mode for better device application.

**Steps**

1. Click in the top right of the web page to enter the wizard page. After setting device language and time, you can click **Next** to enter the **Environment Settings** page.
2. Select **Indoor** or **Other**.

**Note**

- If you install the device indoors near the window or the face recognition function is not working well, select **Others**.
- If you do not configure the application mode and tap **Next**, the system will select **Indoor** by default.
- If you activate the device via other tools remotely, the system will select **Indoor** as the application mode by default.

Click **Next** to save the settings and go to the next paramater. Or click **Skip** to skip environment settings.

### 8.5.3 Privacy Settings

Set the picture uploading and storage parameters.

Click in the top right of the web page to enter the wizard page. After setting time and environment, you can click **Next** to enter the **Privacy Settings** page.

#### Picture Uploading and Storage

**Save Picture When Auth.**

Save picture when authenticating automatically.

**Upload Picture When Auth.**

Upload the pictures when authenticating to the platform automatically.

**Save Registered Picture**

The registered face picture will be saved to the system if you enable the function.

**Upload Picture After Linked Capture**

Upload the pictures captured by linked camera to the platform automatically.

**Save Pictures After Linked Capture**

If you enable this function, you can save the picture captured by linked camera to the device.

Click **Complete** to finish settings.

## 8.6 Person Management

You can add the person's information, including the basic information, credentials, authentication and settings.

### 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 **Start Time** and **End Time** 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 Face Picture

Click **Person Management → Add** to enter the Add Person page.
Click **+** on the right to upload a face picture from the local PC.

**Note**

The picture format should be JPG or JPEG or PNG, and the size should be less than 200 K.

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 **Save** to add the card.
Click **Save** to save the settings.

### Device No. Settings

Click **Person Management → Add** to enter the Add Person page.
You can link a room No. for the person to realize elevator calling function after the person passing through the turnstile.
Click **Add**, enter the **Room No.** and **Floor No.**
You can also click to delete the room No.
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

Click **Person Management** to enter the Person page.

**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.

## 8.7 Import Blocklist

Import blocklist for user management.

**Steps**

1. Click **Person Management → Import Blocklist** .
2. Click **Download Template**.

   The blocklist template will be downloaded on your PC.
3. Fill in the blocklist user information following the template.
4. Click and choose the blocklist file.
5. Click **OK** to upload the file.
6. **Optional:** Click **Clear Blocklist** to delete all the blocklist user information.

## 8.8 Device Management

### 8.8.1 Sub Access Control Board Management

You can manage the sub access control board on the page.

**Steps**

1. Click **Device Management → Device Management → Sub Access Control Board** to enter page.

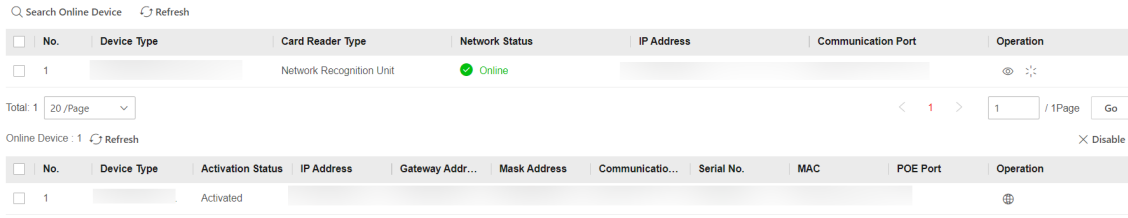



**Figure 8-1 Device Management**

2. Set device parameters.

| Function | Description |
| --- | --- |
| | Set **Device Name** and view the **Device Model**, **Serial No.**, **Version**, **Version**, **Alarm Inputs** and **Alarm Outputs**. |
| | Reboot the device. |
| **Refresh** | Refresh the device list. |
| | Edit network parameters of the sub access control board, such as **IP address** and view the **Gateway Address**, **IPv4 Subnet Mask**, and **Communication Port**, enter the admin password. |

**Note**

Make sure the IP address of the sub access board and the main access board's should be in the same IP segment, or the sub access board can be offline.

3. Click **Save**.

## 8.8.2 Batch Devices Management

You can view the information of all the main access control boards, which are under the same network segment with the current device. You can locate the barrier, set the network parameters, synchronize parameter with sub access control board and edit the device name of single main access control board. You can also select batch devices to set network parameters, sync parameters and activate.

**Steps**

1. Click **Device Management → Device Management → Batch Manage Devices** to enter page.

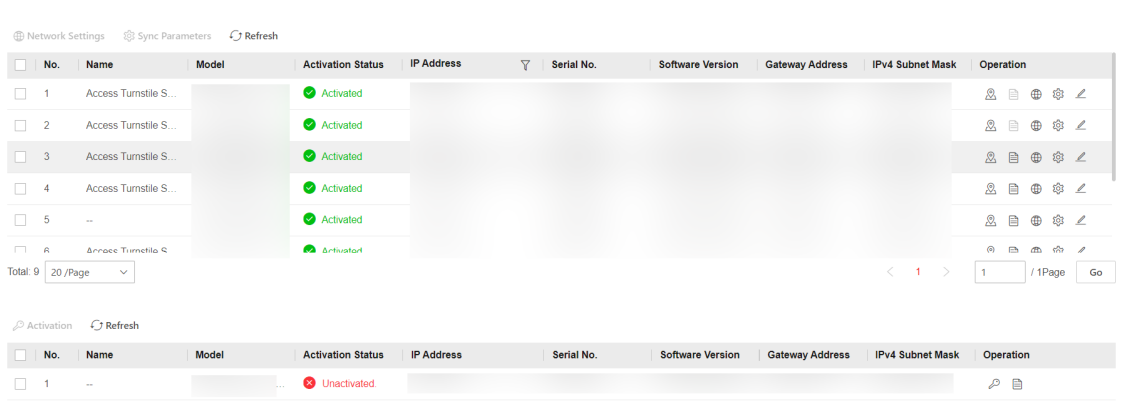



**Figure 8-2 Batch Manage Devices Page**

All the devices (main access control board), which are under the same network with the sub access control board, will be displayed in the page.

**Note**

The upper area of the page is the activated devices; and the bottom area is non-activated devices.

2. You can operate the following actions to the activated devices.

Click the icon to locate the barrier via the barrier's status.

Click the icon to view the information of sub access control board and set the network parameters, enter the admin password and click **Save**.

**Note**

- If uncheck the DHCP function, you should set the IPv4 address, IPv4 subnet mask, and gateway address.
- If you check the DHCP function, the system will allocate the IPv4 address, IPv4 subnet mask, and gateway address automatically.

Click the icon to set the network parameters of main and sub access control boards, enter the admin password and click **Save**.

**DHCP**

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

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

**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.

Click the icon to sync the corresponding parameters with the current device's, enter the admin password and click **Save**.

Click the icon to edit the name of the device, enter the admin password and click **Save**.

**3.** You can operate the following actions to the non-activated devices.

Click the icon to set the network parameters of main and sub access control boards, enter the admin password and click **Save**.

**4.** You can manage the batch devices as follows:

Select the devices and click the icon to set the network parameters of main access control boards, and enter the admin password and click **Save**.

**Note**

The system will allocate IP addresses to the selected devices in turns. The sub access board's IP will be main access board's IP+1.

Select the devices and click the icon to sync the corresponding parameters of with the current device, and enter the admin password and click **Save**.

Select the devices and click the icon to activate, and enter the admin password and click **Save**.

## 8.9 Turnstile

### 8.9.1 Overview

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 search conditions, including the event type, 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.

**Person Information**

You can view the added and not added information of person, face, and card.

**Network Status**

You can view the network connection status.

**Basic Information**

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

**Device Capacity**

You can view the person, face, card, event capacity.

### 8.9.2 Search Event

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

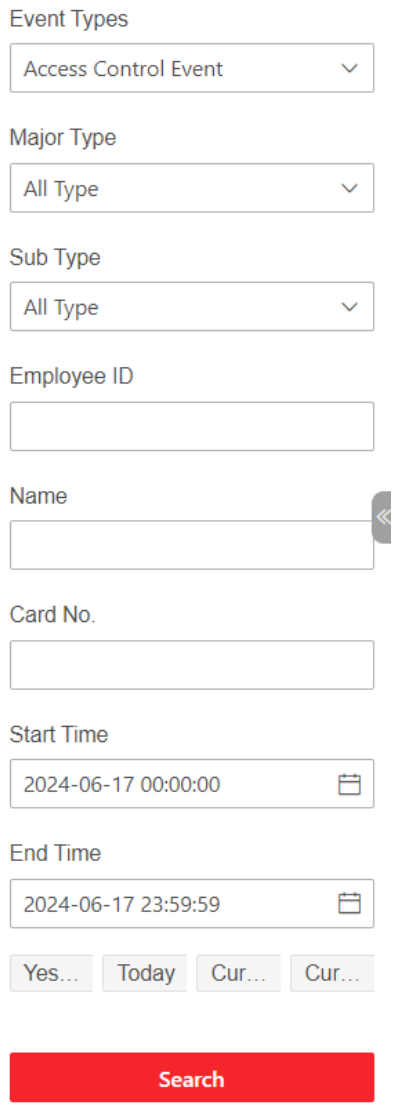



**Figure 8-3 Search Event**

Enter the search conditions, including the event type, major and sub type, 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.

### 8.9.3 Paramenter Settings

### Set Door Parameters

Click **Turnstile → Parameter Settings → Door Parameters** .

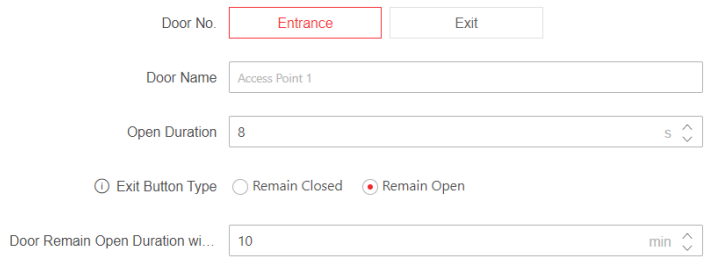



**Figure 8-4 Door Parameters Settings**

Set the parameters and 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.

## Set Authentication Parameters

Click **Turnstile → Parameter Settings → Authentication Settings** .

**Note**

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

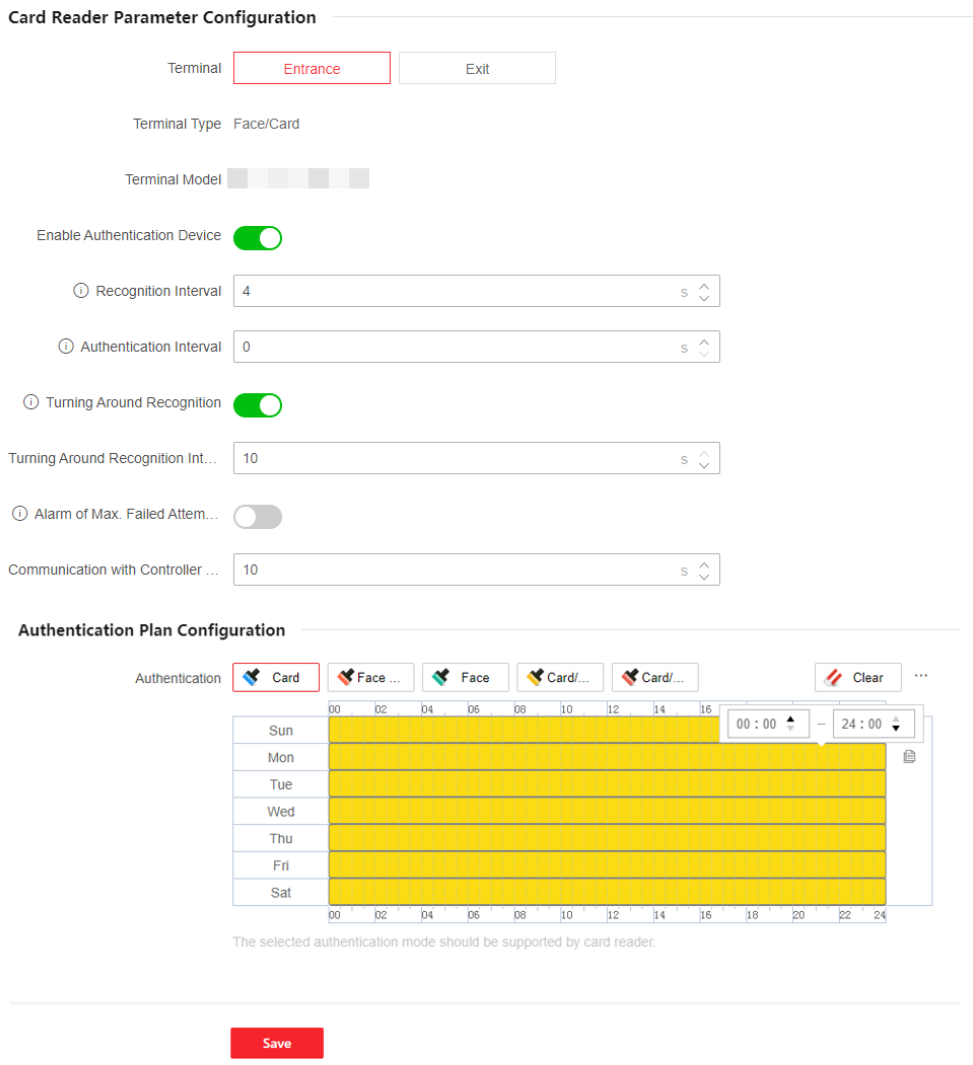



**Figure 8-5 Set Authentication Parameters**

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

**Terminal/Terminal Type/Terminal Model**

Get terminal description. They are read-only.

**Enable Authentication Device**

Enable the authentication function.

**Recognition Interval**

You can set the interval between 2 continuous recognition of a same person during the authentication. In the configured interval, Person A can only recognized once. If another person (Person B) has recognized during the interval, Person A can recognized again.

**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.

**Turning Around Recognition**

When enable the function, after authentication from one side, the device will not authenticate the passing person from the other side within the configured interval.

**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.

**Authentication Plan Configuration**

You can choose one authentication mode, and select the area on the timetable to set the period, in which it only can be authenticated by the set mode.

Click **Clear** to clear the selected area on the timetable.

Click **Weekly Schedule** to fill the whole timetable. Click **Clear All** to clear all set periods.

**Note**

The selected authentication mode should be supported by card reader.

## Set Biometric Parameters

## Set Basic Parameters

Click **Turnstile → Parameter Settings → Smart** .

**Note**

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

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

**Terminal**

Select a direction.

**Face Recognition**

After enabling, the device will support face recognition.

**Face Anti-Spoofing**

Enable or disable the live face detection function. If enabling the function, the device can recognize whether the person is a live one or not.

**Note**

Biometric recognition products are not absolutely applicable to anti-spoofing environments. If you require a higher security level, use multiple authentication modes.

**Anti-Spoofing Detection Level**

After enabling the face anti-spoofing function, you can set the matching security level when performing live face authentication.

**Recognition Distance**

Select the distance between the authenticating user and the device camera.

**Application Mode**

Select either other or indoor according to actual environment.

**Pitch Angle**

The maximum pitch angle when starting face authentication.

**Yaw Angle**

The maximum yaw angle when starting face authentication.

**1:1 Matching Threshold**

Set the matching threshold when authenticating via 1:1 matching mode. The larger the value, the smaller the false accept rate and the larger the false rejection rate.

**1:N Matching Threshold**

Set the matching threshold when authenticating via 1:N matching mode. The larger the value, the smaller the false accept rate and the larger the false rejection rate.

**Face Recognition Timeout Value**

Set the timeout value when face recognizing. If the face recognition time is longer than the configured value, the system will pop up a prompt.

**Face Recognition Area**

Select **Entrance** or **Exit** as the terminal direction.

Drag the block or enter the parameters to set the face recognition area.

Click **Save**.

**ECO Mode**

After enabling the ECO mode, the device will use the IR camera to authenticate faces in the low light or dark environment. And you can set the ECO mode threshold, ECO mode (1:N), and ECO mode (1:1).

**Enable Mode**

You can set **Auto** or **Timing** to enable the ECO mode.

When you select **Timing**, you should click **Set** to set the time duration that the device will enable ECO mode. Click **Save**.

**ECO Mode Threshold**

The larger the value, the device enter the ECO Mode easier.

**ECO Mode (1:1) Threshold**

Set the matching threshold when authenticating via ECO mode 1:1 matching mode. The larger the value, the smaller the false accept rate and the larger the false rejection rate.

**ECO Mode (1:N) Threshold**

Set the matching threshold when authenticating via ECO mode 1:N matching mode. The larger the value, the smaller the false accept rate and the larger the false rejection rate

**Face with Mask Detection**

After enabling the face without mask detection, the system will recognize the captured face with mask picture or not. You can set face with mask1:N matching threshold, it's ECO mode, and the strategy.

**None**

The function is disabled. The device will not detect whether a person is wearing a face mask or not.

**Reminder of Wearing Face Mask**

If the person do not wear the face mask when authenticating, the device will pop up a prompt and the door will open.

**Must Wear Face Mask**

If the person do not wear the face mask when authenticating, the device will pop up a prompt and the door will keep closed.

**Face with Mask & Face (1:1)**

Set the matching value when authenticating with face mask via 1:1 matching mode. The larger the value, the smaller the false accept rate and the larger the false rejection rate.

**Face with Mask 1:N Matching Threshold**

Set the matching threshold when authenticating with face mask via 1:N matching mode. The larger the value, the smaller the false accept rate and the larger the false rejection rate.

**Face with Mask & Face 1:1 Matching Threshold (ECO)**

Set the matching value when authenticating with face mask via ECO mode 1:1 matching mode. The larger the value, the smaller the false accept rate and the larger the false rejection rate.

**Face with Mask & Face 1:N Matching Threshold (ECO)**

Set the matching threshold when authenticating with face mask via ECO mode 1:N matching mode. The larger the value, the smaller the false accept rate and the larger the false rejection rate.

## Card Settings

## Set Card Type

Click **Turnstile → Parameter Settings → Card Settings** to enter the settings page.

Set the 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**
**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 **Turnstile → Parameter Settings → Card Settings** .

Select a card authentication mode and click **Save**.

**Card Authentication Mode**

**Full Card No.**

All card No. will be read.

**Wiegand 26 (3 bytes)**

The device will read card via Wiegand 26 protocol (read 3 bytes).

**Wiegand 34 (4 bytes)**

The device will read card via Wiegand 34 protocol (read 4 bytes).

**Corporate1000_35/Corporate1000_48/H10302_37/10304_37/H103130_332CSN/ Wiegand_56CSN/Wiegand_58**

The device will read card via the other mode.

**Enable Reversed Card No.**

The read card No. will be in reverse sequence after enabling the function.

## Event Linkage

Set linked actions for events.

**Steps**

1. Click **Turnstile → Parameter Settings → Linkage Settings** to enter the settings page.

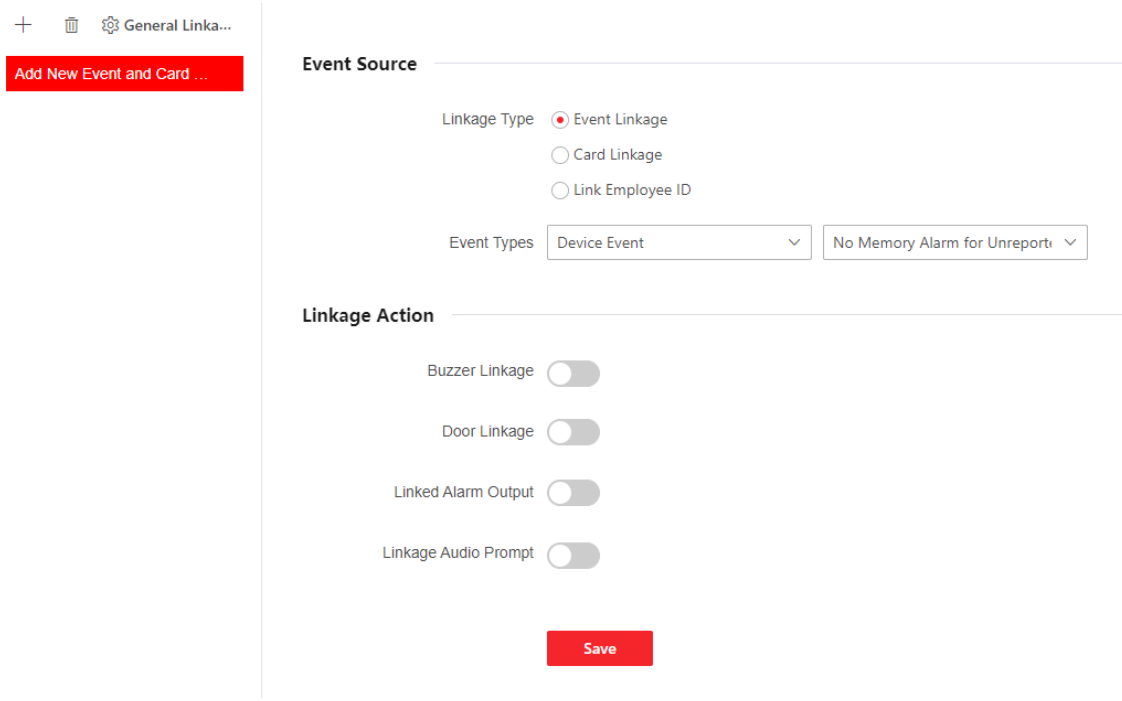



**Figure 8-6 Event Linkage**

2. Click **+** to 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 **Employee ID Linkage**, you need to enter the employee ID and select the card reader.
3. Set linkage action.

   **Door Linkage**

   Enable **Door Linkage**, and set the door status **Entrance**and **Exit** 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.

   **Linked Audio Prompt**

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

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

   **Linked Capture**

   Enable **Linked Capture** and select entrance or exit to capture for the target event.

## Set Terminal Parameters

You can set terminal parameters for accessing.

Click **Turnstile → Parameter Settings → Terminal Parameters** .

You can set **Working Mode** as **Permission Free Mode** or **Access Control Mode**.

**Permission Free Mode**

The device only judge your credential is in the valid duration, and will not authenticate the permission.

Enable **Verify Credential Locally**, the device will check permission but not estimate the plan template.

**Access Control Mode**

The access control mode is the device normal mode. You should authenticate your credential for accessing.

You can enable **Remote Verification** according to your actual needs. After enabling, you can verify remotely. And you can enable **Verify Credential Locally** according to your actual needs.

Select **ID Card Verification Center**. It is set as **On Device** by default.

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

## Set Privacy Parameters

Set the event storage type, picture upload and storage parameters, and the picture clearing parameters.

Click **Turnstile → Parameter Settings → Privacy Settings** .

### Event Storage Settings

Select a method to delete the event. The device supports **Overwriting**.

**Overwriting**

The earliest 5% events will be deleted when the system detects the stored events has been over 95% of the full space.

### Picture Uploading and Storage

**Save Picture When Auth.**

Save picture when authenticating automatically.

**Upload Picture When Auth.**

Upload the pictures when authenticating to the platform automatically.

**Save Registered Picture**

The registered face picture will be saved to the system if you enable the function.

**Save Pictures After Linked Capture**

If you enable this function, you can save the picture captured by linked camera to the device.

**Upload Picture After Linked Capture**

Upload the pictures captured by linked camera to the platform automatically.

### Clear All Pictures in Device

**Note**

All pictures cannot be restored once they are deleted.

**Clear Registered Face Pictures**

All registered pictures in the device will be deleted.

**Clear Captured Pictures**

All captured pictures in the device will be deleted.

## 8.9.4 Turnstile Configuration

### Basic Parameters

Set turnstile basic parameters.

**Steps**

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

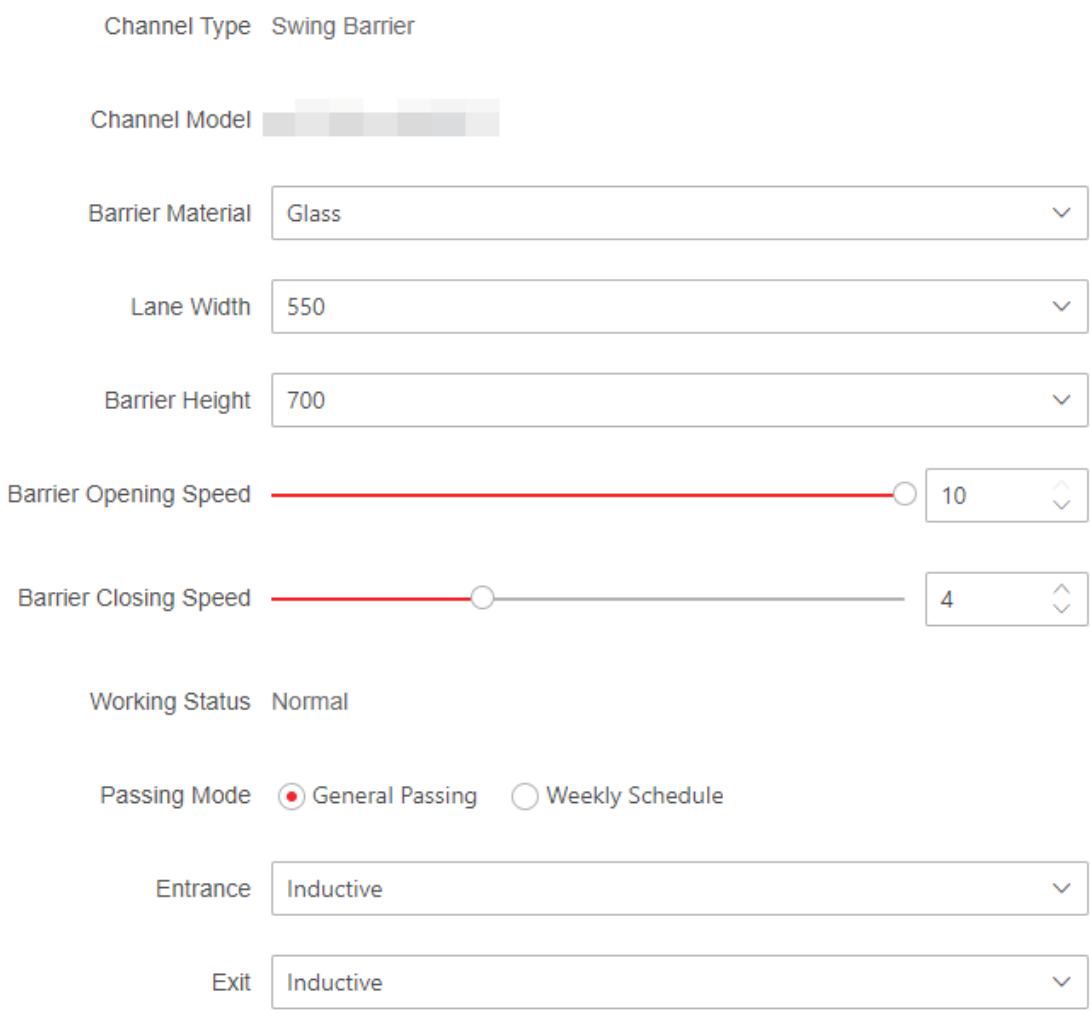



**Figure 8-7 Basic Parameters**

2. View the **Channel Type**, **Channel Model** and **Working Status**.
3. Set **Barrier Material**, **Lane Width**, **Barrier Height**, **Barrier Opening Speed** and **Barrier Closing Speed** according to your actual needs.
4. 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.
5. Set **Entrance** and **Exit** status.

   **Controlled**

   The barrier is controlled, the person should authenticate the credential to pass.

   **Inductive**

   When a person is walking through the lane, the barrier will be detected and open the barrier.

**Remain Open/Closed**

The barrier will remain open or closed whenever the person's authentication result is passed or denied.

**Barrier-Free**

The barrier will open all the time.

6. Click **Save**.

## Keyfob Settings

Set keyfob parameters.

**Steps**

1. Click **Turnstile → Turnstile Configuration → Keyfob Configuration** to enter the page.

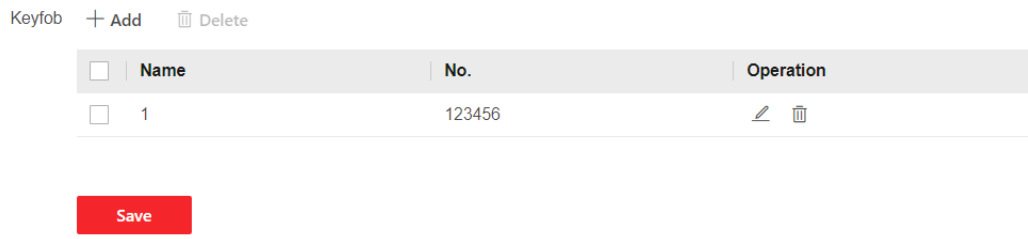



**Figure 8-8 Keyfob Settings**

2. Add keyfob.
   1) Click **Add** and the keyfob adding window will pop up.
   2) Enter the **Name** and **Serial No.**.
   3) Click **Add** to add the keyfob.
3. **Optional:** Select a keyfob and click **Delete** to delete the keyfob.
4. Click **Save**.

## IR Detector

Set IR detector.

**Steps**

1. Click **Configuration → Turnstile → IR Detector** to enter the page.

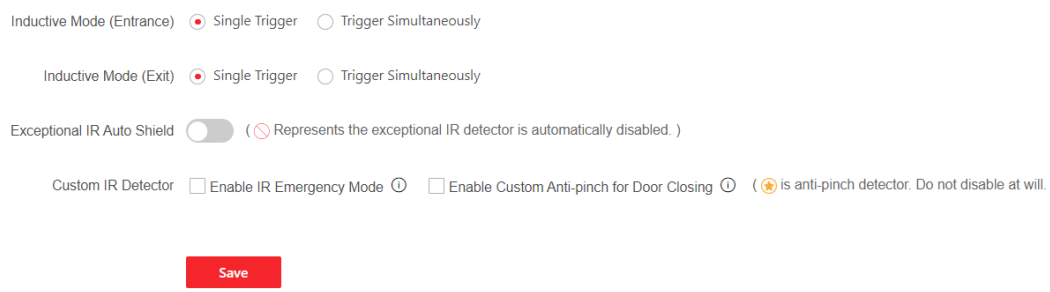



**Figure 8-9 IR Detector**

2. Set the entrance and exit inductive mode as **Single Triggered** or **Triggered Simultaneously**.
3. Enable **Exceptional IR Auto Shield**. If the IR detector is damaged, the IR detector can be shielded to temporarily restore the lane to use, but it may cause injury to passers-by when the barrier is open and closed.

**Note**

Exceptional IR auto shield function is a short-term shield. If there is no exception for 1 hour, it will restore.

4. Set custom IR detector mode.

**Enable IR Emergency Mode**

If some IR beams do not work properly, you can shield those IR beams to restore the lane. But this action may hit person and cause injury.

**Enable Custom Anti-pinch for Door Closing**

Anti-pinch for door closing refers that the barrier will not close if the device has detected person in the lane. Only after the person walks out of the lane, the barrier will close. If you enable the function, you can shield parts of the IR beams for closing barrier in advance. But this action may hit person and cause injury.

5. Click **Save**.

## People Counting

Set people counting.

**Steps**

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

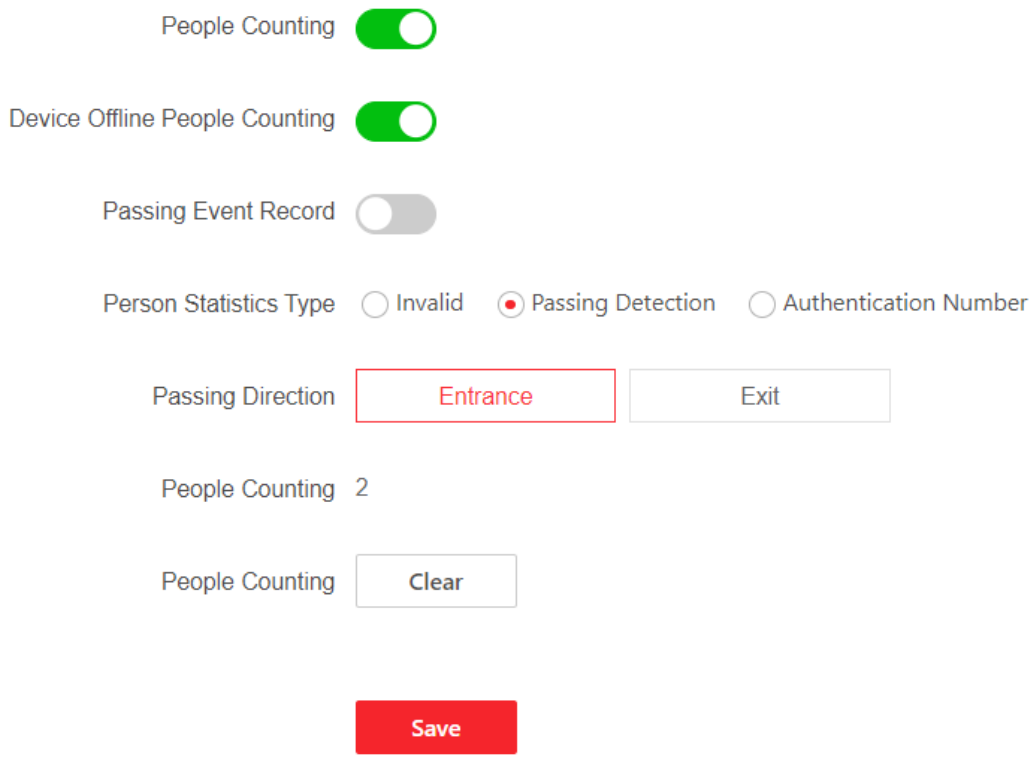



**Figure 8-10 People Counting**

2. Set people counting parameters and click **Save**.

**People Counting**

Enable the function and set the parameters.

**Device Offline People Counting**

The device will count people numbers even if it is offline.

**Passing Event Record**

The device will report passing event to the platform when people passing.

**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, etc.

**Passing Direction**

Select the device passing direction according to actual needs.

**People Counting**

View the people counting number and you can also click **Clear** to clear all data.

## Set Light

Set the light brightness when authentication of the device.

**Steps**

1. Click **Turnstile → Turnstile Configuration → Light Settings** to enter the page.

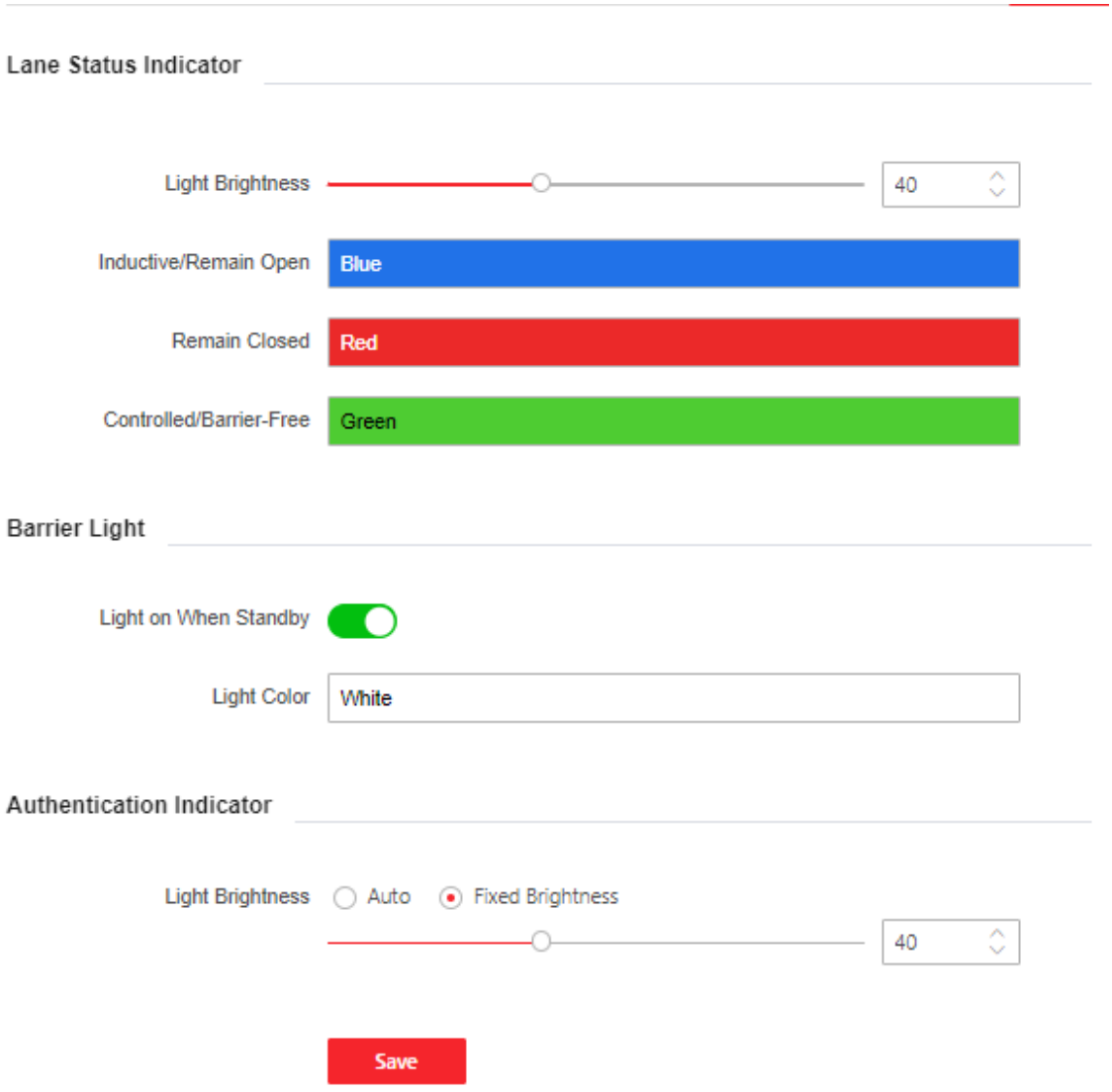



**Figure 8-11 Light Settings**

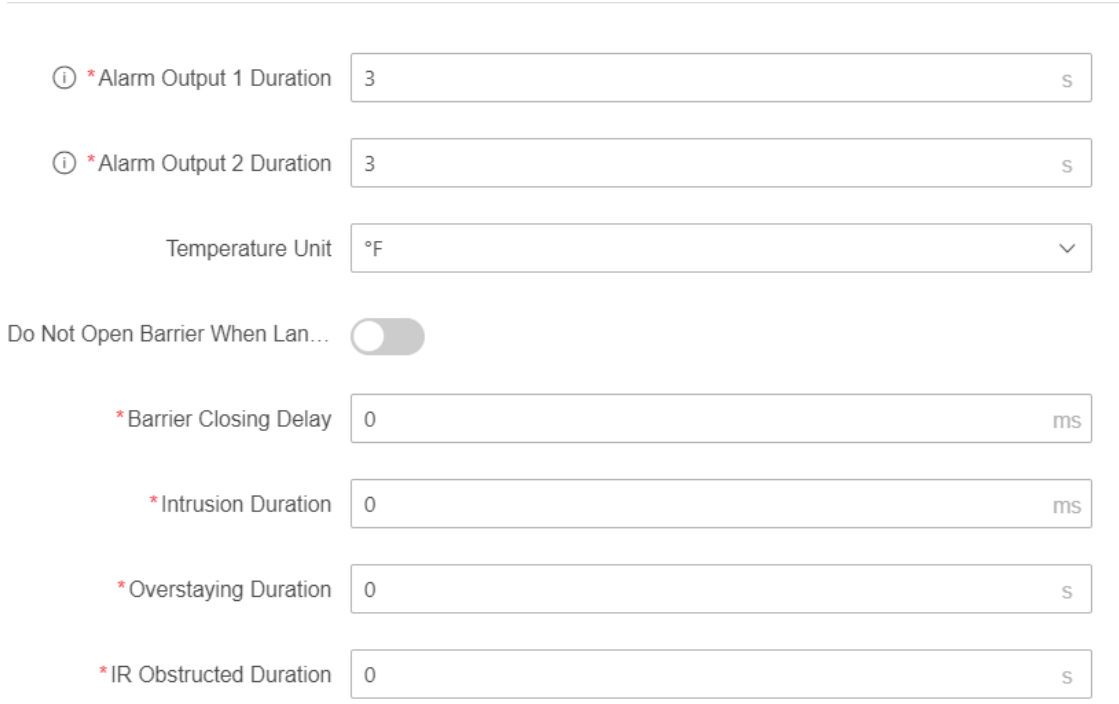
2. Set **Light Brightness** as **Auto** or **Fixed Brightness**. If you choose **Fixed Brightness**, you can drag the block or enter the value to adjust the light brightness manually.
3. Click **Save**.

## Other Settings

Set other parameters.

**Steps**

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



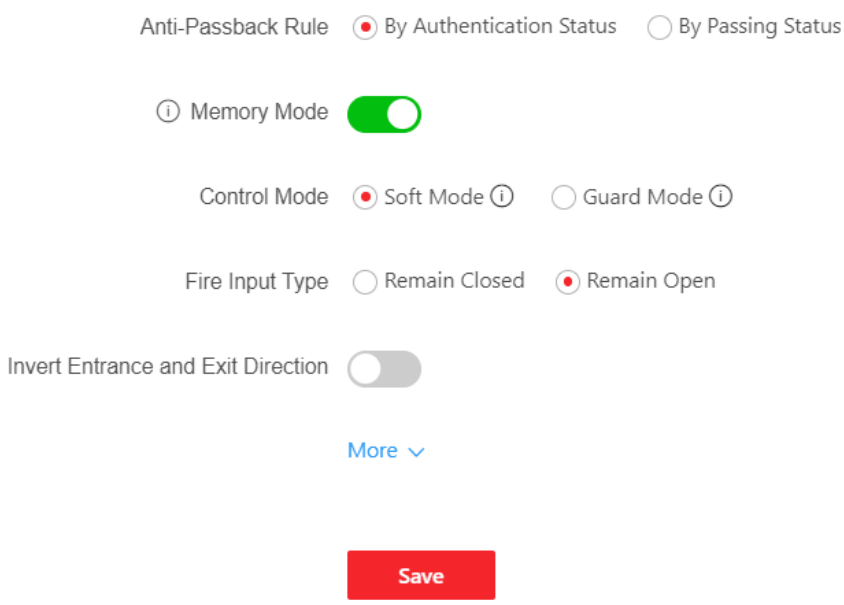



**Figure 8-12 Other Settings Page**

**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.

**Do Not Open Barrier When Lane is Not Clear**

When enabled, the barrier will not open when people is authenticated in the lane.

**Barrier Closing Delay**

After a person passes through the lane, the barrier will close after the set time period.

**Intrusion Duration**

If a person mistakenly enters the lane for more than the set time, or if the person passes longer than the set time, the device will start alarming.

**Overstaying Duration**

If someone or something is detected to be stuck in the lane for more than the set time, the device will start alarming.

**IR Obstructed Duration**

If the infrared target is obstructed for more than the set time, the device will start alarming. 0 indicates that the function is not enabled.

**Anti-Passback Rule**

Set anti-passback rule to **By Authentication Status** or **By Passing Status**.

**By Authentication Status**

Anti-passback takes effect only after the person is authenticated.

**By Passing Status**

Anti-passback takes effect without the person being authenticated.

**Note**

Determine whether the product supports this function according to the specific model.

**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.

**Control Mode**

Soft Mode: The barrier will be closed after the person has passed through the barrier when there are tailgating, forced accessing, etc.

Guard Mode: The barrier will be closed immediately when there are tailgating, forced accessing, etc.

**Fire Input Type**

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

**Invert Entrance and Exit Direction**

This function allows you to invert the entrance and exit direction of the reader if the installed entrance and exit direction reader is in the wrong position.

3. Click **More** to adjust **Barrier Open Angle**.
4. Click **Save**.

## 8.10 System and Maintenance

You can view the system information and the capacity. You can also upgrade the device, restore to factory settings, restore to default settings, and reboot the device.

### 8.10.1 Set Local Parameters

Set the live view parameters, picture and clip settings.

Click **System and Maintenance → System Configuration → Local** to enter the Local page.

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

### Set Live View Parameters

Configure the stream type, the play performance.

### Record File Settings

Select a record file size and select a saving path from your local computer .
You can also click **Open** to open the file folder to view details.

### Picture and Clip Settings

Select image format, saving path.
You can also click **Open** to open the file folder to view details.

## 8.10.2 View Device Information

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

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

You can view the language, model, serial No., version, IO input, IO output, 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, face, card, event, and palm print.

## 8.10.3 Set Time

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

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

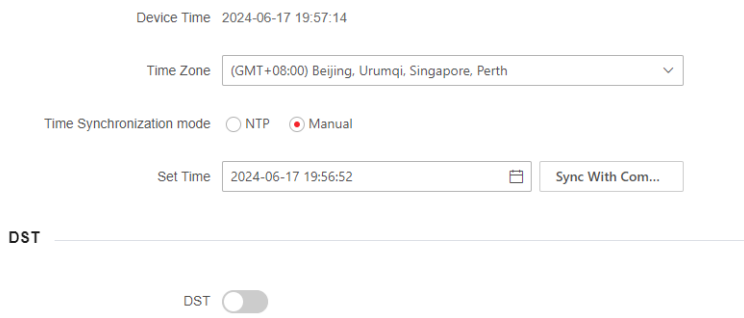



**Figure 8-13 Time Settings**

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

**Time Zone**

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

**Time Sync.**

**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 set the DST start time, end time and bias time.

### 8.10.4 Change Administrator's Password

**Steps**

1. Enter the password change page.
   - Click **System and Maintenance → System Configuration → System → User Management → User Management** and click .
   - Click **admin → Modify Password** at the upper right corner of the page.
2. Enter the old password and create a new password.
3. Confirm the new password.
4. 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.

### 8.10.5 Online Users

The information of users logging into the device is shown.

Go to **System and Maintenance → System Configuration → System → User Management → Online User** to view the list of online users.

### 8.10.6 View Device Arming/Disarming Information via PC Web

View device arming type and arming IP address.

Go to **System and Maintenance → System Configuration → System → User Management → Arming/Disarming Information** .

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

### 8.10.7 Network Settings

### Set Basic Network Parameters

Click **System and Maintenance → System Configuration → System → Network → Network Settings → TCP/IP** .

You can view the mac address and MTU.

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

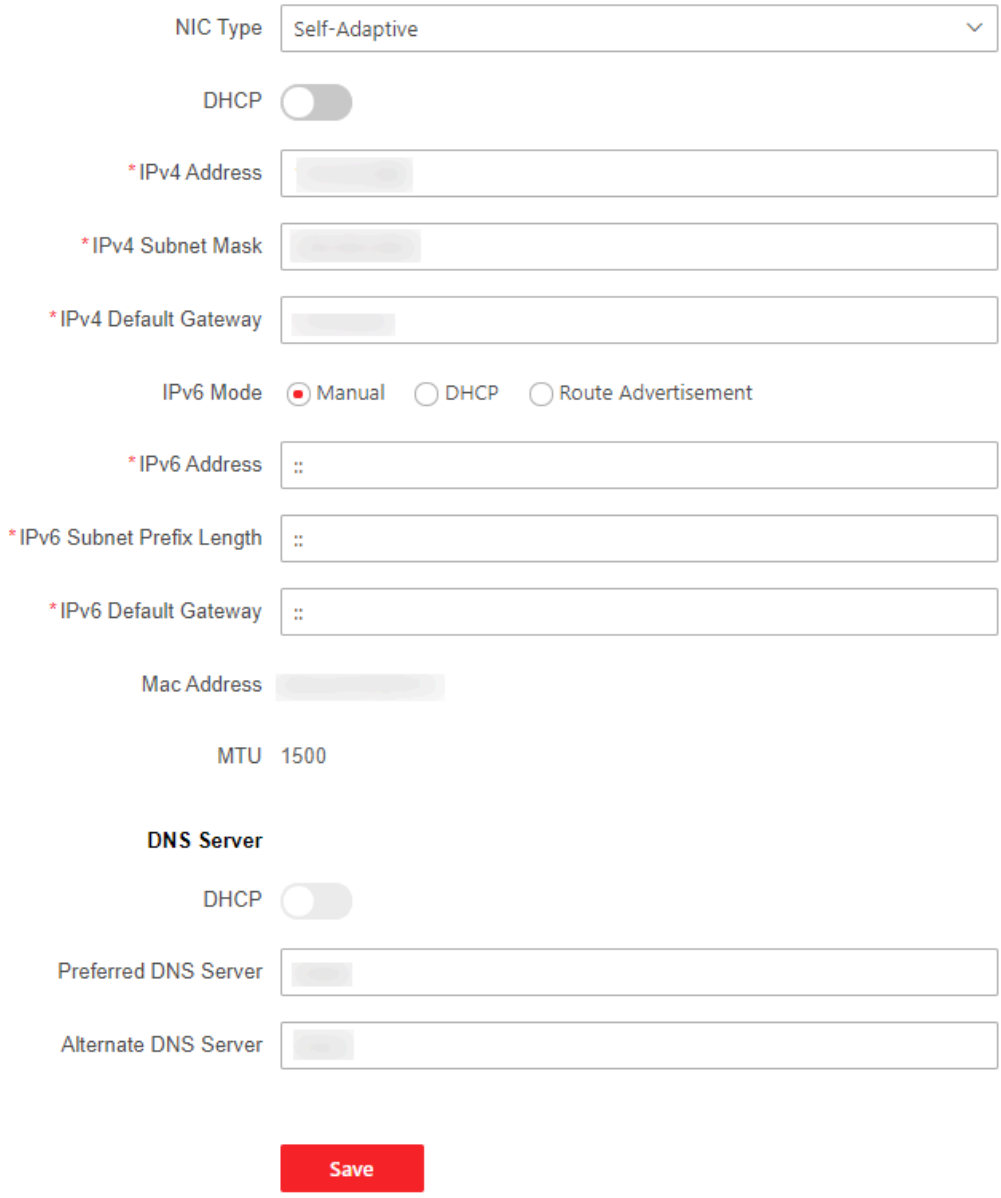



**Figure 8-14 Set TCP/IP**

**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.

**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.

**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.

## Device Hotspot

Set the device hotspot.

Click **System and Maintenance → System Configuration → Network → Network Settings → Device Hotspot** .

Click to **Enable Device Hotspot**. Set hotspot **Name** and **Password**.

Click **Save**. You can use your phone to connect the hotspot and set parameters on the mobile web.

## Set Port via PC Web

Click **System and Maintenance → System Configuration → Network → Network Service** .

**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.

Click **System and Maintenance → System Configuration → Network → Network Service → RTSP** .

**RTSP**

It refers to the port of real-time streaming protocol.

## Set OTAP via PC Web

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 **System and Maintenance → System Configuration → Network → Device Access → OTAP** .

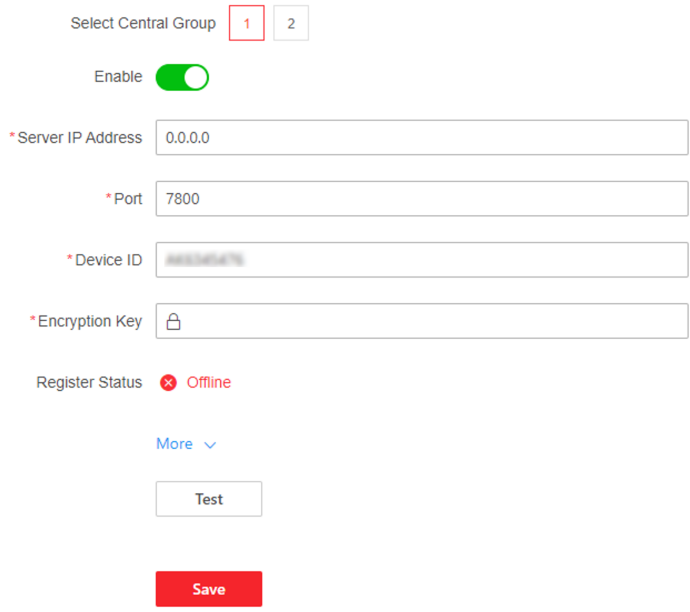



**Figure 8-15 Set OTAP**

2. Select central group.
3. Click to **Enable** OTAP.
4. Set **Server IP Address**, **Port**, **Device ID** and **Encryption Key**.
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 **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**.
7. Click **Save**.

## Platform Access via PC Web

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

**Steps**

1. Click **System and Maintenance → System 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. Check **Enable** to enable the function.
3. **Optional:** Check the checkbox of **Custom**, and you can set the server address by yourself.
4. Enter the verification code.
5. **Optional:** Check **Enable** to enable video encryption, set an encryption password and confirm it.
6. Click **More** to view the network type and access priority. Drag the operation icon upward or downward to adjust the network priority.
7. Click **View** to view device QR code. Scan the QR code to bind the account.

   **Note**

   8 to 32 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.

8. Click **Save** to enable the settings.

## 8.10.8 Set Video and Audio Parameters via PC Web

## Configure Video Parameters via Web Browser

You can set quality, resolution and other parameters of device camera.

Click **System and Maintenance → System Configuration → Video/Audio → Video** to enter the settings page.

Set camera name, stream type, video type, resolution, bit rate type, video quality, frame rate, Max. bitrate, video encoding and I frame interval.

Click **Save**.

## Configure Audio Parameters via Web Browser

You can set device volume.

Click **System and Maintenance → System Configuration → Video/Audio → Audio** to enter the settings page.

Slide to enable voice prompt function.

Slide to set **Output Volume**.

Click **Save**.

### 8.10.9 Set Image Parameters

You can adjust the image parameters, video parameters, supplement parameters and capture interval.

**Steps**

1. Click **System and Maintenance → System Configuration → Image** .
2. Set the channel as **Entrannce** or **Exit**.
3. Configure the parameters to adjust the image.

   **Image Adjustment**

   Drag the block or enter the value to adjust the live video's brightness, contrast, saturation, and sharpness.

   **LED Light**

   Set the supplement light type and mode. You can also set the brightness.

   **Backlight**

   Enable or disable **WDR**.

   When there are both very bright and very dark areas simultaneously in the view, WDR balances the brightness level of the whole image and provide clear images with details.

   **Video Adjustment (Video Standard)**

   Set the video frame rate when performing live view remotely. After changing the standard, you should reboot the device to take effect.

   **PAL**

   25 frames per second. Suitable for mainland China, Hong Kong (China), the Middle East countries, Europe countries, etc.

   **NTSC**

   30 frames per second. Suitable for the USA, Canada, Japan, Taiwan (China), Korea, the Philippines, etc.

   **Start All Recording**

   You can click to record when starting live view.

   **Capture Interval**

   You can click to capture image when starting live view.

   **Full Screen**

   You can click for full screen view.
4. Click **Restore Default Settings** to restore the parameters to the default settings.

### 8.10.10 Set Wiegand Parameters via PC Web

You can set the Wiegand transmission direction.

**Steps**

**Note**

- Some device models do not support this function. Refer to the actual products when configuration.
- Only the device supporting interface board can set the Wiegand parameters.

1. Click **System and Maintenance → System Configuration → Access Configuration → Wiegand Settings** .

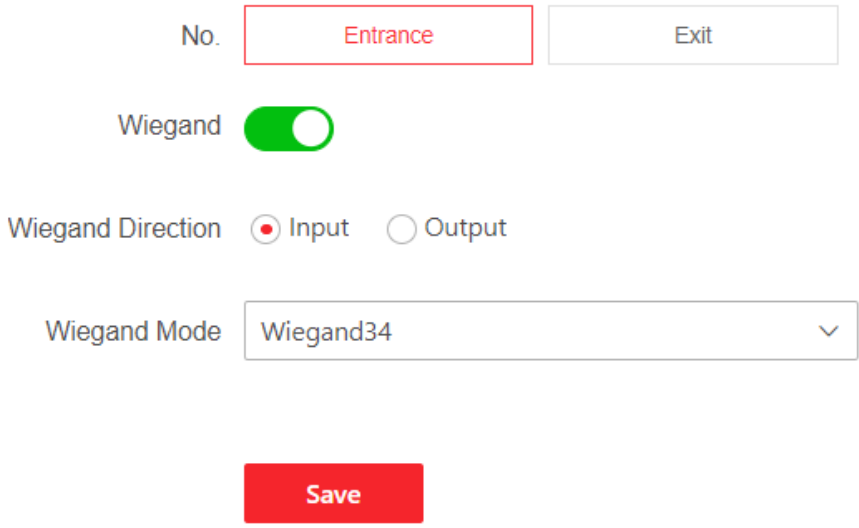



**Figure 8-16 Wiegand Page**

2. Check **Wiegand** to enable the Wiegand function.
3. Set a transmission direction.

   **Input**

   The device can connect a Wiegand card reader.

   **Output**

   The can connect an external access controller. And you should set the output type.
4. Click **Save** to save the settings.

**Note**

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

## 8.10.11 Serial Port Settings

Set serial port parameters.

**Steps**

1. Click **System and Maintenance → System Configuration → Access Configuration → Serial Port Configuration** .

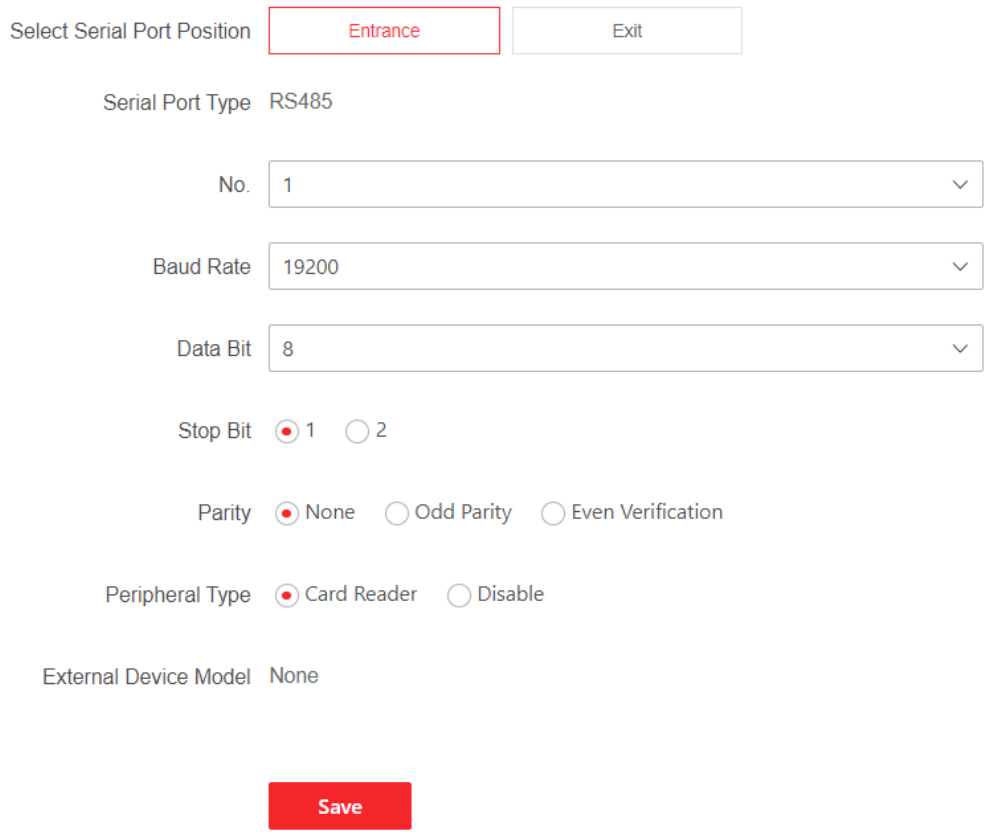



**Figure 8-17 Serial Port Configuration**

2. Set the serial port position as **Entrance** or **Exit**.
3. Select a serial port No., and the corresponding serial port type will display automatically.
4. 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.

5. Set the **Peripheral Type** the port connected.
6. You can view the external device model.
7. Click **Save**.

## 8.10.12 Elevator Control via PC Web

**Steps**

1. Click **System and Maintenance → System Configuration → Access Configurations → Elevator Control Parameters** .

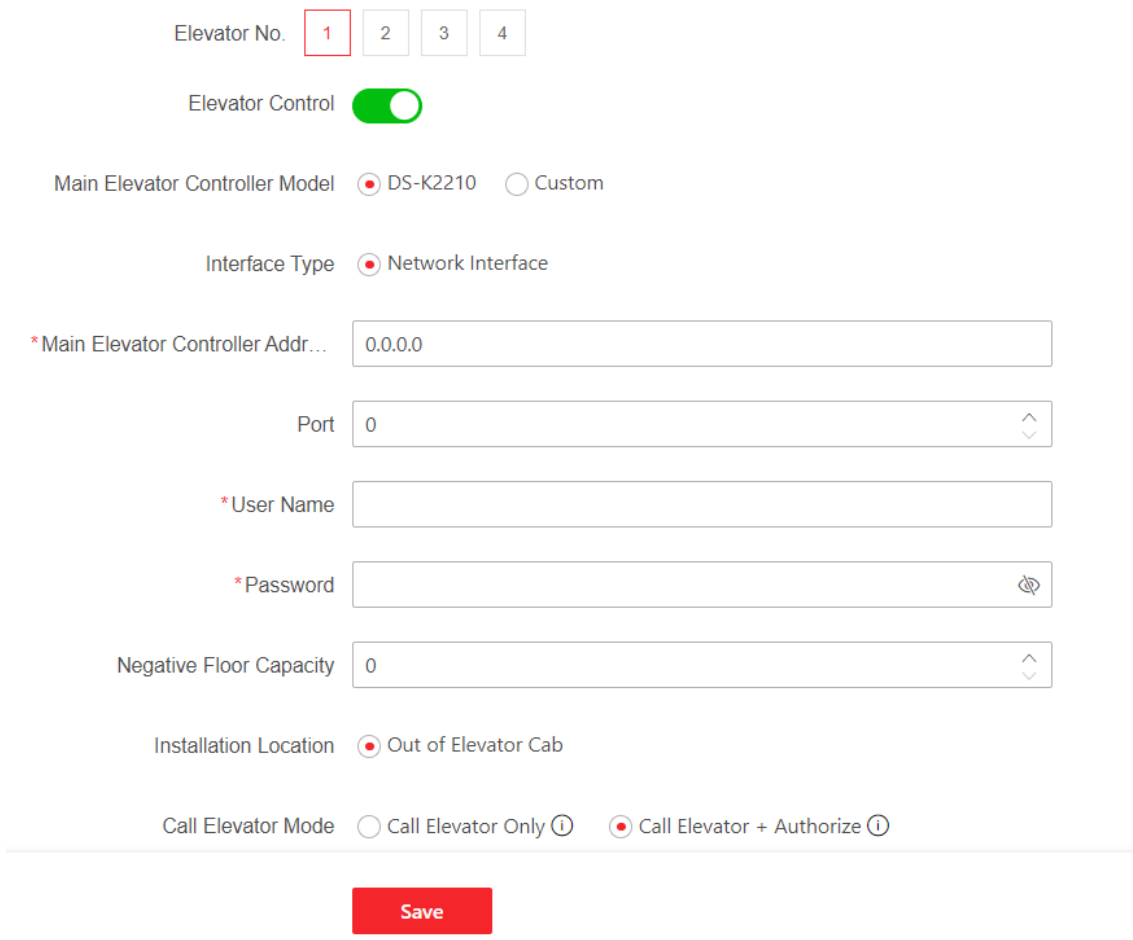



**Figure 8-18 Elevator Control**

2. Select an elevator No., the parameters settings below will affect the selected elevator.
3. Enable **Elevator Control**.
4. Set the elevator parameters.

**Main Elevator Controller Model**

View the elevator model.

**Interface Type**

Select a communication type from the drop-down list for elevator communication.

If you select **Network Interface**, enter the elevator controller's IP address, port No., user name, and password for communication.

**Negative Floor Capacity**

Set the negative floor number.

**Installation Location**

Select the device installation position. By default, it is out of elevator cab.

**Call Elevator Mode**

**Call Elevator Only**

After person passes authentication on device, the device will call elevator to its floor.

**Call Elevator+Authorize**

After person passes authentication on device, the device will call elevator to its floor and authorize the permission of the floor linked to person room. The person can get to the target floor by pressing corresponding floor No.

**Note**

- Up to 4 elevator controllers can be connected to 1 device.
- Up to 10 negative floors can be added.
- Make sure the interface types of elevator controllers, which are connected to the same device, are consistent.

## 8.10.13 Customize Audio Content

Customize the output audio content when authentication succeeded and failed.

**Steps**

1. Click **System and Maintenance → Preference → Prompt Schedule** .

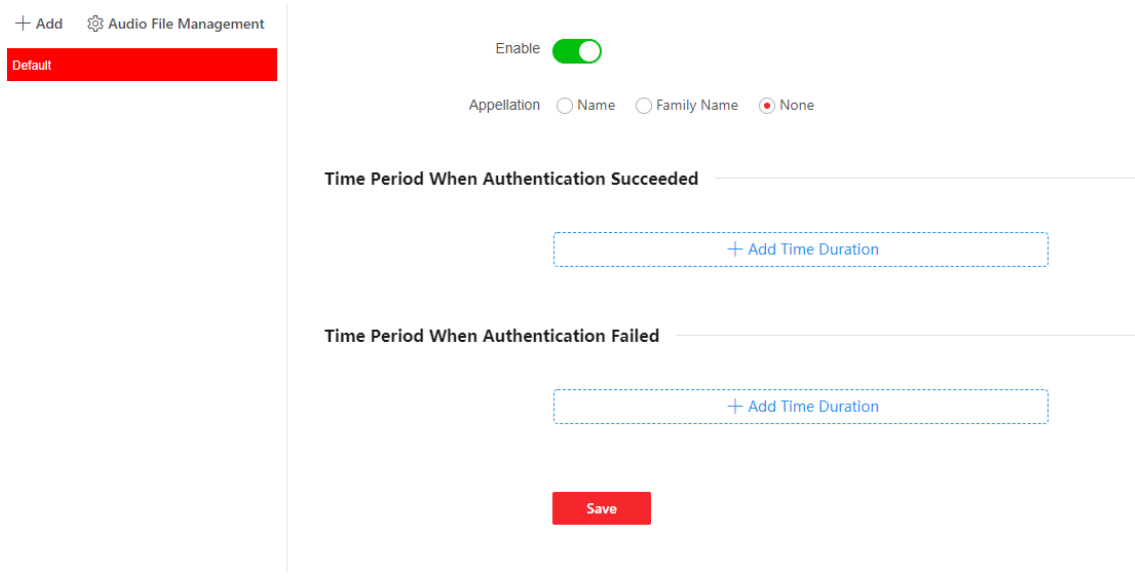



**Figure 8-19 Customize Audio Content**

2. Enable the function.
3. Set the appellation.
4. Set the time period when authentication succeeded.
   1) Click **Add Time Duration**.
   2) Set the time duration.

**Note**

If authentication is succeeded in the configured time duration, the device will broadcast the configured content.

3) Select the voice prompt type.
4) Enter the audio prompt content or select audio file.

**Note**

You can click **+ Audio File** or **Audio File Management** to add audio files.

5) **Optional:** Repeat substep 1 to 3.
6) **Optional:** Click to delete the configured time duration.

**5.** Set the time duration when authentication failed.
1) Click **Add Time Duration**.
2) Set the time duration.

**Note**

If authentication is failed in the configured time duration, the device will broadcast the configured content.

3) Select the voice prompt type.
4) Enter the audio prompt content or select audio file.

**Note**

You can click **+ Audio File** or **Audio File Management** to add audio files.

5) **Optional:** Repeat substep 1 to 3.
6) **Optional:** Click to delete the configured time duration.

**6.** Click **Save**.

### 8.10.14 Upgrade and Maintenance

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

#### Reboot Device

Click **System and Maintenance → Maintenance → Restart** .
Click **Restart** to reboot the device.

#### Upgrade

Click **System and Maintenance → 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 **System and Maintenance → 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 **System and Maintenance → 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.

## 8.10.15 Device Debugging

You can set device debugging parameters.

**Steps**

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

**Lane Studying/Motor Self-Test**

**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 studying mode. It will study the closed position of the barrier.

**Motor Self-Test**

Click **Start**, the motor will test the operation status automatically.

**Encoder Self-Test**

Select a channel (lane), and click **Start**, the encoder of the selected lane will test the operation status automatically.

**IR Self-Test**

After enabling IR self-test function, the device will sound to exit the channel (lane) before opening/closing. The barrier is forced to open in entrace/exit at the highest speed, at this time IR anti-pinch is defunct. If IR is triggered or blocked, the device will sound detection failure.

Select a channel (lane) and tap **IR Self-Test**, the device will test all IR detectors.

**Note**

Make sure there are no person in the lane.

**Print Log**

You can click **Export** to export log.

**Capture Network Packet**

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

**Debug Command Management**

Select the command type **Quick Command** or enter the content of **Custom Command**.

Select the board type from the drop-down list, click **Send** to send the debug command, you can view the received command information of the device in **Execution Result**.

Click **End Debugging**, the device restores to normal operation status.

**Note**

- To ensure the device performance, please click **End Debugging** to close the Debugging command
- If you do not tap **End Debugging**, the device will end the debugging mode within 7×24 hours automatically.

**IR Exception Info.**

Click **Export** to export the exceptional IR detectors reports.

**Demo Mode**

After enabled, the device will automatically add and authenticate after face recognition. You can set the validity period.

If disabled, all person information added in the demo mode will be cleared after disabled.

### 8.10.16 Test Protocol via PC Web

Select a protocol address, and enter the protocol to test. You can debug the device according to the response header and returned value.

Go to **System and Maintenance → Maintenance → Device Debugging → Protocol Testing**.

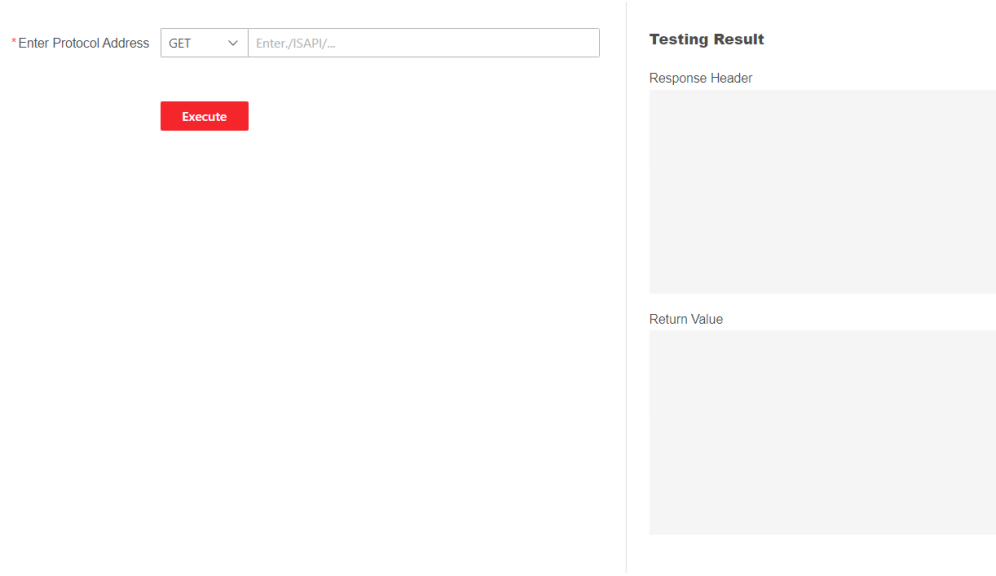



**Figure 8-20 Protocol Testing**

Select a protocol address, and enter the protocol. Click **Execute**.

Debug the device according to the response header and returned value.

## 8.10.17 Set Network Penetration Service via PC Web

When the devcie is deployed in the LAN, you can enable the penetration service to realize device remote management.

**Steps**

1. Go to **System and Maintenance → Maintenance → Device Debugging → Network Penetration Service**.
2. Slide **Enable Penetration Service**.
3. Set **Server IP Address** and **Server Port**. Create **User Name** and **Password**.
4. **Optional:** You can set **Heartbeat Timeout**. The value range is 1 to 6000.
5. **Optional:** You can view the status of the penetration service. Click **Refresh** to refresh the status.
6. Click **Save**.

**Note**

The penetration service will auto disabled after 48 h.

## 8.10.18 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.

## 8.10.19 View Log via PC Web

You can search and view the device logs.

Go to **System and Maintenance → 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.

## 8.10.20 Advanced Settings via PC Web

You can configure face parameters and view version information.

Go to **System and Maintenance → Maintenance → Advanced Settings** .

Enter the device activation password and click **Enter**.

### Face Parameter

Enable **Custom Anti-Spoofing Detection** and you can set the **Anti-Spoofing Detection Threshold 1:1**, **Anti-Spoofing Detection Threshold 1:N**.

Enable **Lock Face for Authentication**, and set **Lock Duration**. The face will be locked for the set lock duration after the failed attempt limit of anti-spoofing detection has been reached.
Click **Save**.

### Version Information

You can view the different version information here.

## 8.10.21 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 HTTPS Certificate

**Steps**

1. Go to **System and Maintenance → Safe → Certificate Management** .
2. In the **HTTPS Certificate** area, click **Create Certificate Request**.
3. Input certificate information and click **Save**.
   - Click **View** and the created certificate will be displayed.
   - The certificate will be saved automatically.
4. Download the certificate and save it to an asking file in the local computer.
5. Send the asking file to a certification authority for signature.
6. Import the signed certificate.
   1) In the **Import Key** area, select a certificate from the local, and click **Import**.
   2) In the **Import Communication Certificate** area, select a certificate from the local, and click **Import**.

### Create and Import SYSLOG Certificate

**Steps**

1. Go to **System and Maintenance → Safe → Certificate Management** .
2. In the **SYSLOG Certificate** area, click **Create Certificate Request**.
3. Input certificate information and click **Save**.
   - Click **View** and the created certificate will be displayed.
   - The certificate will be saved automatically.
4. Download the certificate and save it to an asking file in the local computer.
5. Send the asking file to a certification authority for signature.
6. Import the signed certificate.
   1) In the **Import Key** area, select a certificate from the local, and click **Import**.

2) In the **Import Communication Certificate** area, select a certificate from the local, and 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 **CA Certificate ID** 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 9 Other Platforms to Configure

You can also configure the device via iVMS-4200 Client Software or HikCentral Access Control. For details, see the platforms' user manual.

**iVMS-4200 Client Software**

Click/tap the link to view the client software's user manual.

***http://enpinfodata.hikvision.com/analysisQR/showQR/ca930247***

# Appendix A. Event and Alarm Type

| Event | Alarm Type |
|---|---|
| Tailgating | Visual and Audible |
| Reverse Passing | Visual and Audible |
| Force Accessing | None |
| Climb over Barrier | Visual and Audible |
| Overstay | Visual and Audible |
| Passing Timeout | None |
| Intrusion | Visual and Audible |
| Free Passing Authentication Failed | Visual |
| Barrier Obstructed | None |

# Appendix B. FAQ

1. Q: How to align the door barriers when they are not aligned?
   A: You can use the lane studying function to ask the device to learn the barrier closing position. For details, see ***Device Debugging*** for specific operation steps.
2. Q: How to set device passing mode, such as controlled, inductive, remain open, etc.?
   A: Use the PC web to set the mode. For details, see ***Basic Parameters*** .
3. Q: How to troubleshoot when the door barrier does not close after powering on?
   A: Log in to the turnstile Web to check the status of the components, such as whether the IR beam is triggered. Or check the error number of the digital tube on the lane control board.

# Appendix C. Legal Information

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