DS-K6BC402X Series Swing Barrier

User Manual

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FCC compliance: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
—Reorient or relocate the receiving antenna.
—Increase the separation between the equipment and receiver.
—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
—Consult the dealer or an experienced radio/TV technician for help
This equipment should be installed and operated with a minimum distance 20cm between the radiator and your body.
FCC Conditions
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

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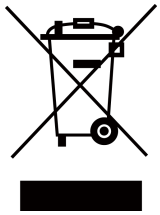
This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed

under the EMC Directive 2014/30/EU, RE Directive 2014/53/EU,the RoHS Directive 2011/65/EU



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This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:
(1) this device may not cause interference, and
(2) this device must accept any interference, including interference that may cause undesired operation of the device.
Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radioexempts de licence. L'exploitation est autorisée aux deux conditions suivantes :
(1) l'appareil ne doit pas produire de brouillage, et
(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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Safety Instruction

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

The precaution measure is divided into Dangers and Cautions:

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

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

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

⚠ Danger:

- In the use of the product, you must be in strict compliance with the electrical safety regulations of the nation and region.
- The equipment must be connected to an earthed mains socket-outlet.
- Shock hazard! Disconnect all power sources before maintenance.
- Do not touch the bare metal contacts of the inlets after the circuit breaker is turned off. Electricity still exists.
- ϟ indicates hazardous live and the external wiring connected to the terminals requires installation by an instructed person.
- 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.

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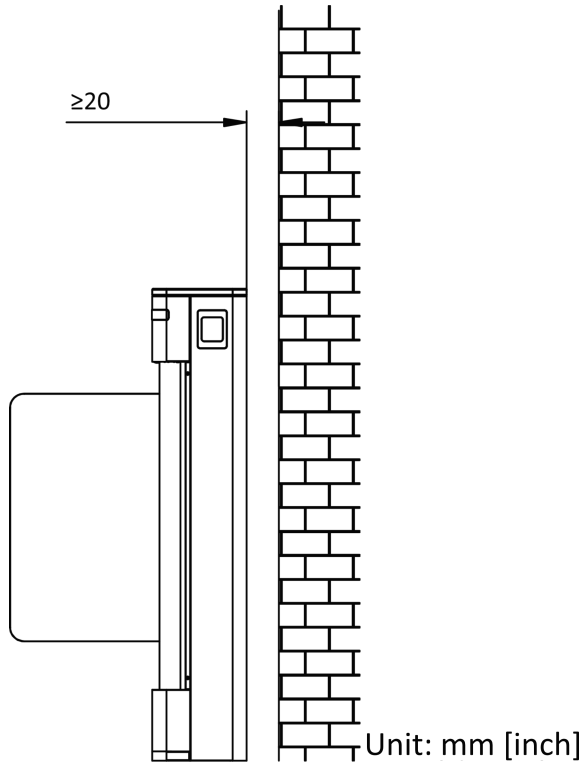
Chapter 1 System Wiring

The preparation before installation and general wiring.

Steps

Note

- The device should be installed on the concrete surface or other non-flammable surfaces.
- If the installation area is too close to the wall, make sure the distance between the pedestal and the wall should be no less than 20 mm, or you cannot open the pedestal's top panel.



- The dimension is as follows.

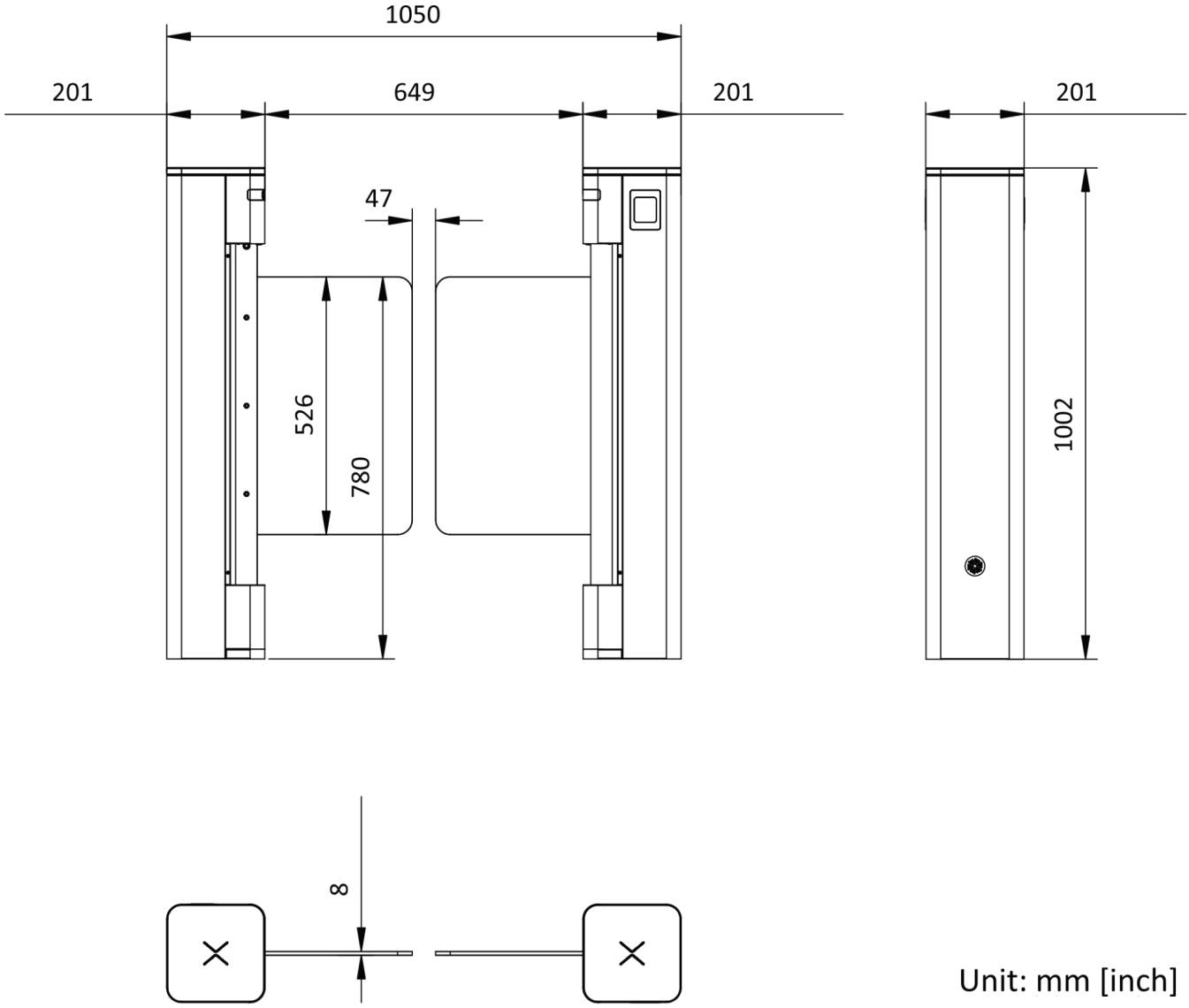


Figure 1-1 Dimension

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 L mm. L represents the lane width.

3. Slot on the installation surface and dig installation holes. Put 4 expansion bolts of M12*150 for each pedestal.

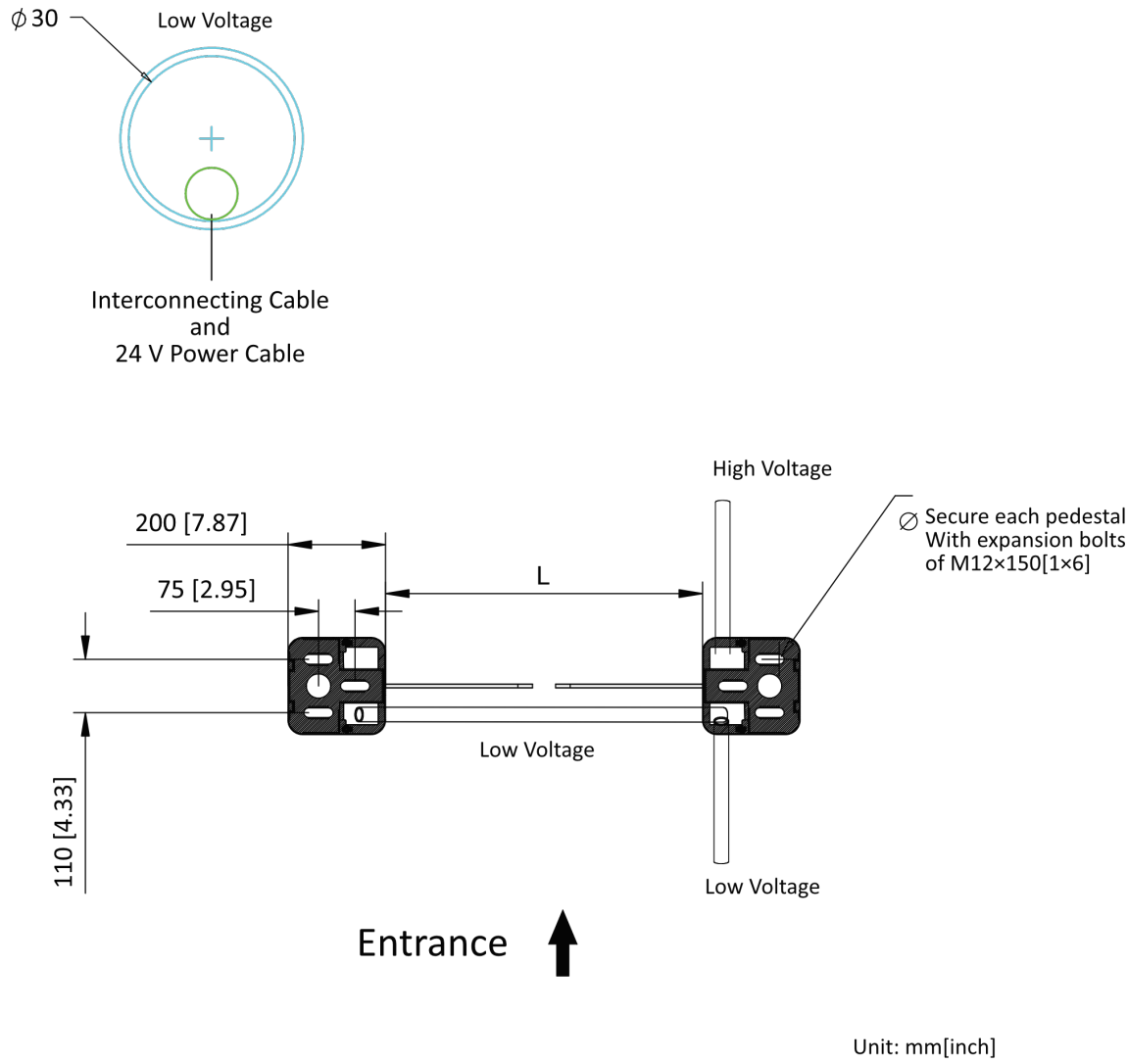


Figure 1-2 Hole Position and System Wiring

4. Bury cables. Each lane buries 1 high voltage cable and 1 low voltage cable. For details, see the system wiring diagram of step 3.

Note

- High voltage: 200 to 240 V AC, 50 to 60 Hz AC power input.
  Low voltage: 1 interconnecting cable (required for double gates or more), recommended cable length is L + 1.5 m. 1 network communication cable. Network Communication Cable has no length limitation. Pre-installation is suggested for future peripheral connection needs.
- The suggested inner diameter of the low voltage conduit is larger than 30 mm.
- 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 the network cable has better performance. And the suggested network cable length should be less than 100 m.
- Before digging holes, evaluate the thickness of the installation surface to avoid puncturing.

Chapter 2 Installation

1. Prepare for the installation tools, check the device and the accessories, and clear the installation base.
2. Position the gate over the pre-installed expansion bolts. Use a Phillips screwdriver to loosen the four screws beneath the top cover and remove it.
3. Release the four clips securing the card reader panels, then slide them backward to remove both side panels.
4. Remove the two screws (per side) with a Phillips screwdriver and detach the side maintenance doors.
5. PPlace the accessories (base clamping plates) over the expansion bolts and align them with the gate edges.
6. Tighten the expansion bolt nuts with an open-end wrench, then reinstall the side maintenance doors to their original positions.

Scan the QR Code to watch the installation guide video.

Chapter 3 General Wiring

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.

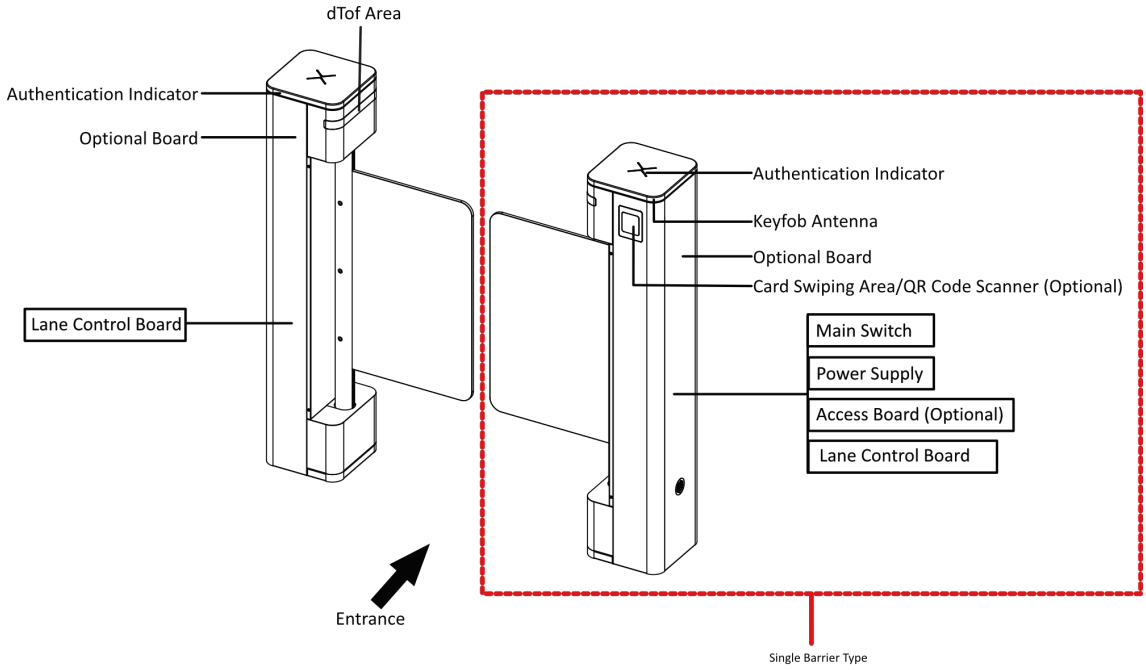


Figure 3-1 Component Diagram

The picture displayed below describes the dTof area and their corresponding number on the pedestal.

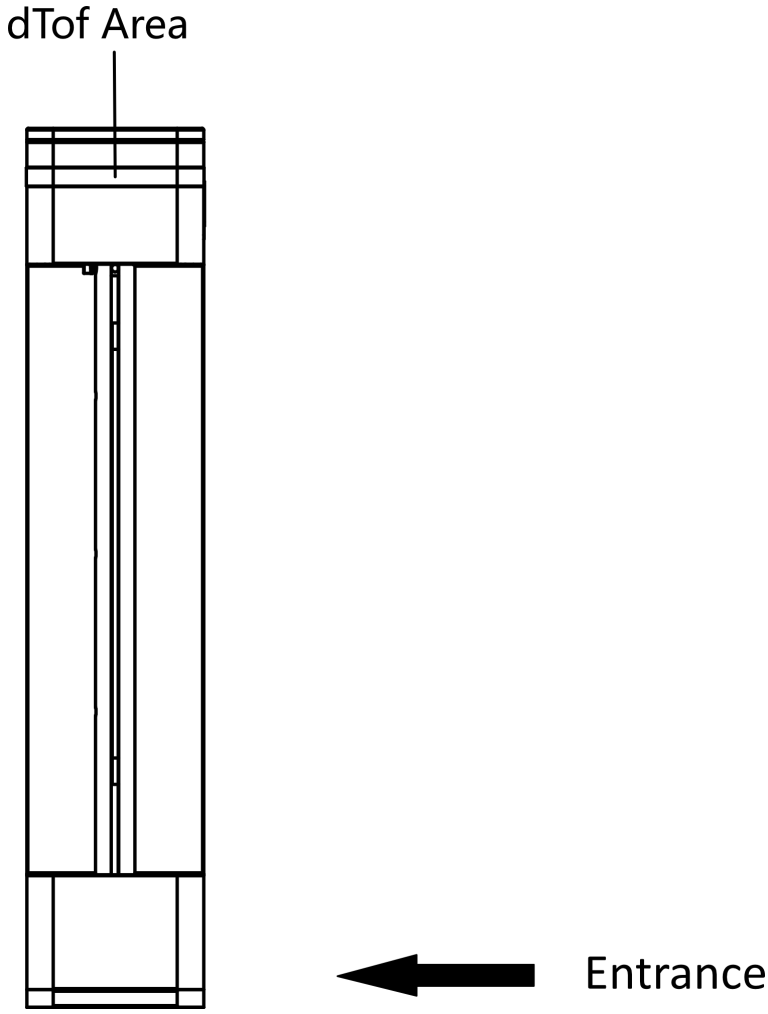


Figure 3-2 dTof Area

Chapter 4 Terminal Description

4.1 General Wiring

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

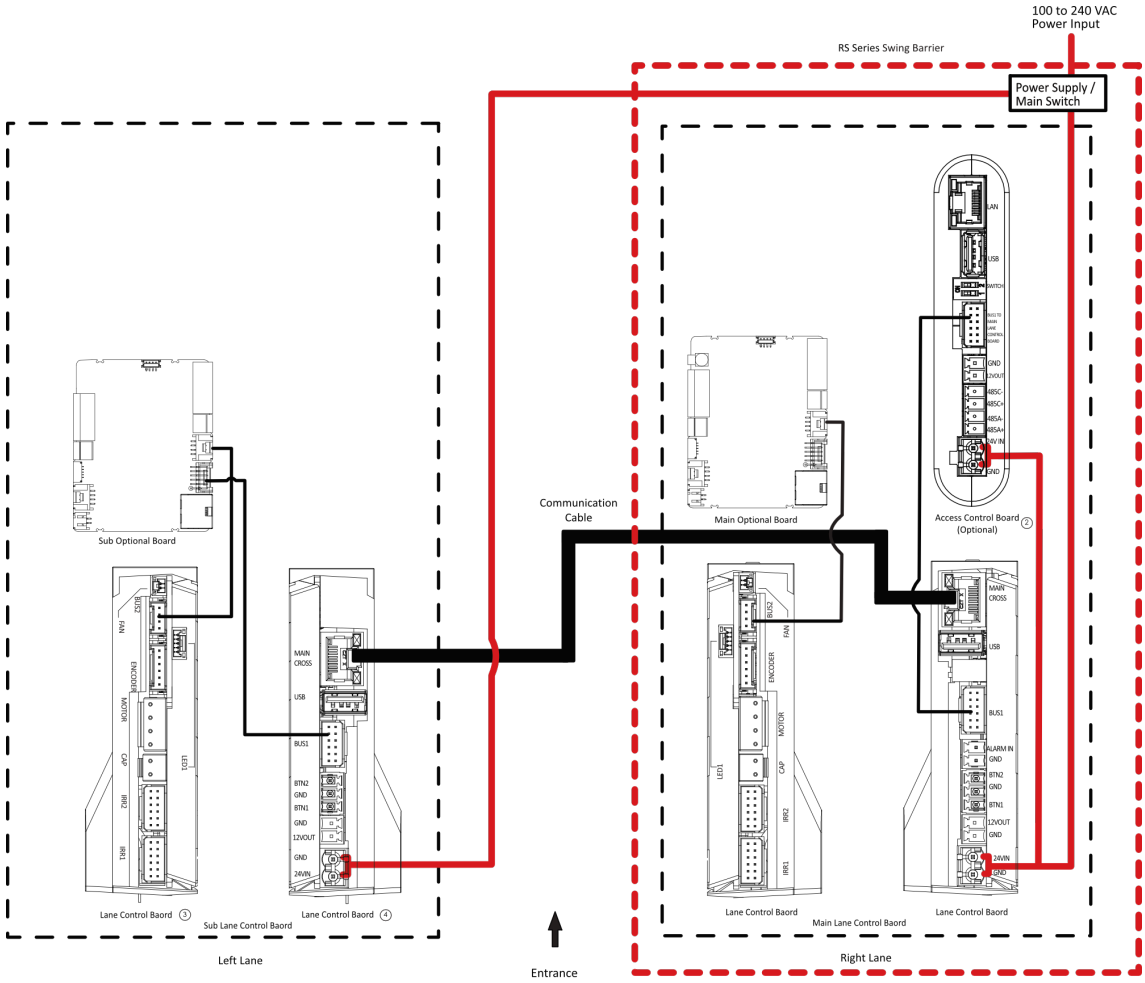


Figure 4-1 General Wiring

Note

- It is recommended to use Hikvision matched distribution cabinet (sold separately) to covert the AC mains power to 24 V.
- Power supply: 24 V DC; Power supply voltage fluctuation range: ± 5%.
- The ① and ② refer to the two sides of a same board.

- The supplied interconnecting cables need connecting on-site: CAT5e Communication cable. The cable is 3 m in length and put inside the package.
- RS series swing barrier supports main lane control board only.

4.2 Main Control Board Terminal Description

The picture displayed below is the main control board diagram.

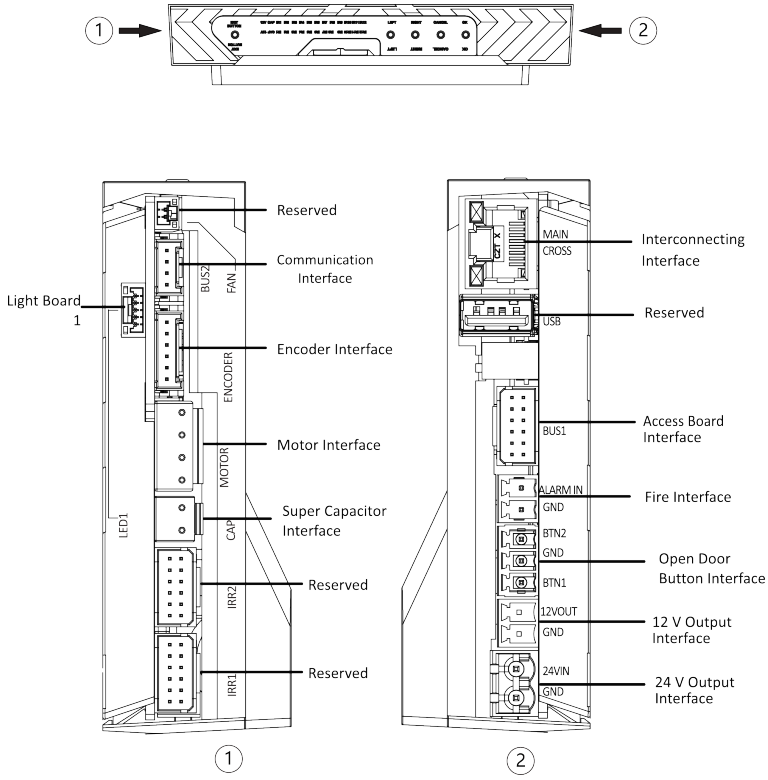


Figure 4-2 Main Lane Control Board

4.3 Sub Control Board Terminal Description

The picture displayed below is the sub control board diagram.

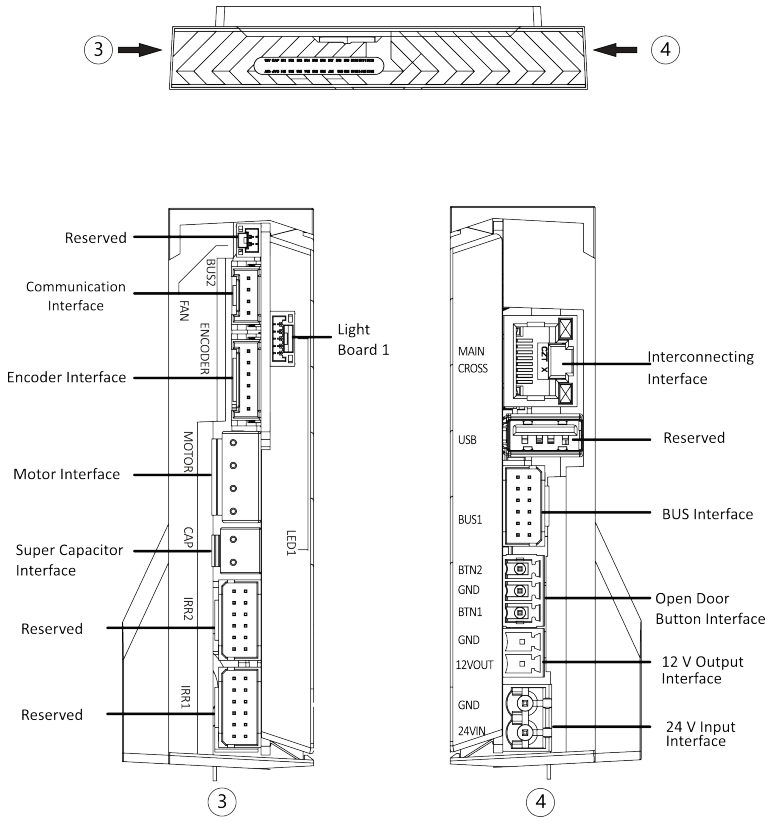


Figure 4-3 Sub Lane Control Board

4.4 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

- The diagram is for reference. Interfaces may differ in models.
- Hold the reset button for 5 s, the device will beep for 3 s and start restoring to factory settings.
- The RS-232 and RS-485 corresponding port on web and the suggested connection device is as follows:

Terminal Name	Port No. on Web	Direction	Suggestion Connection Device
RS-232A	Port 1	Entrance	QR Code Scanner (By Default)
RS-485A	Port 3	Entrance	

Terminal Name	Port No. on Web	Direction	Suggestion Connection Device
RS-232B	Port 2	Exit	QR Code Scanner (By Default)
RS-485B	Port 4	Exit	
RS-485C	Port 5	Entrance	Card Reader (By Default) Self-Developed QR Code Scanners
RS-485D	Port 6	Exit	Card Reader (By Default) Self-Developed QR Code Scanners

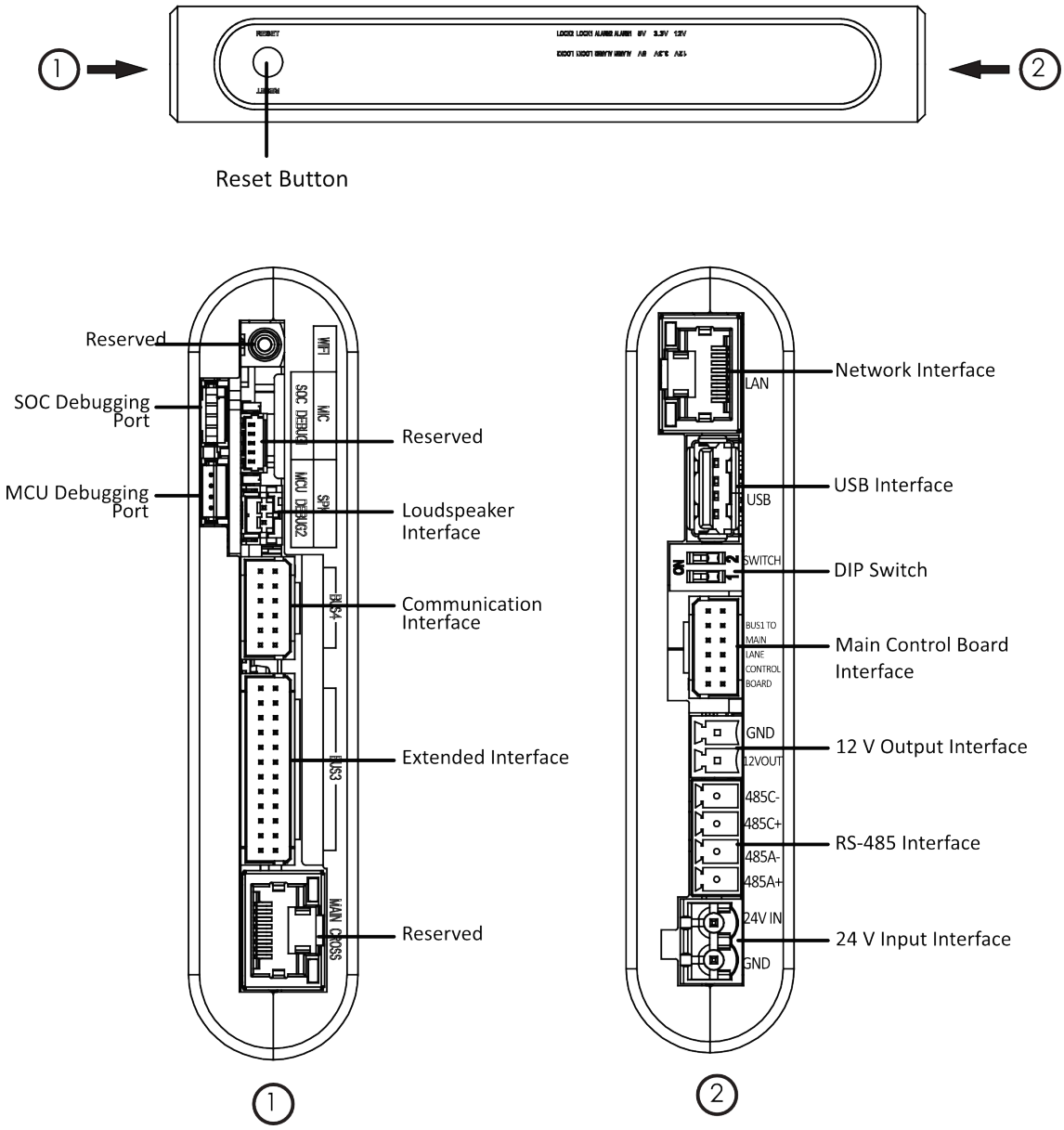


Figure 4-4 Access Board

4.5 Optional Board Terminal Description

The optional board contains the sub-1G antenna interface, 485/232 interface, 12 V output interface, loudspeaker interface, debugging port, Wiegand/exit button interface, BUS interface, 5 VDC output and communication interface.

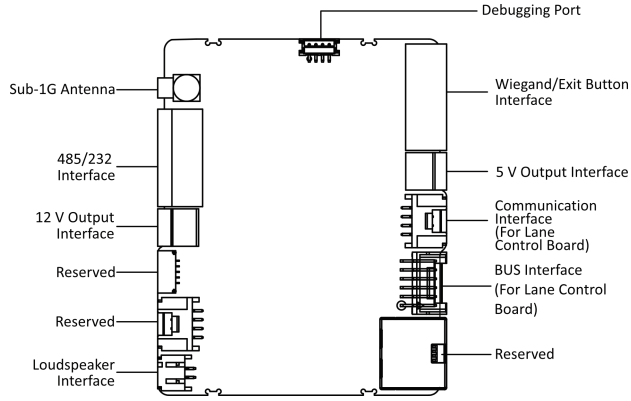


Figure 4-5 Optional Board Terminal

4.6 Card Reader

The card reader can be connected to the BUS4 of the access board.

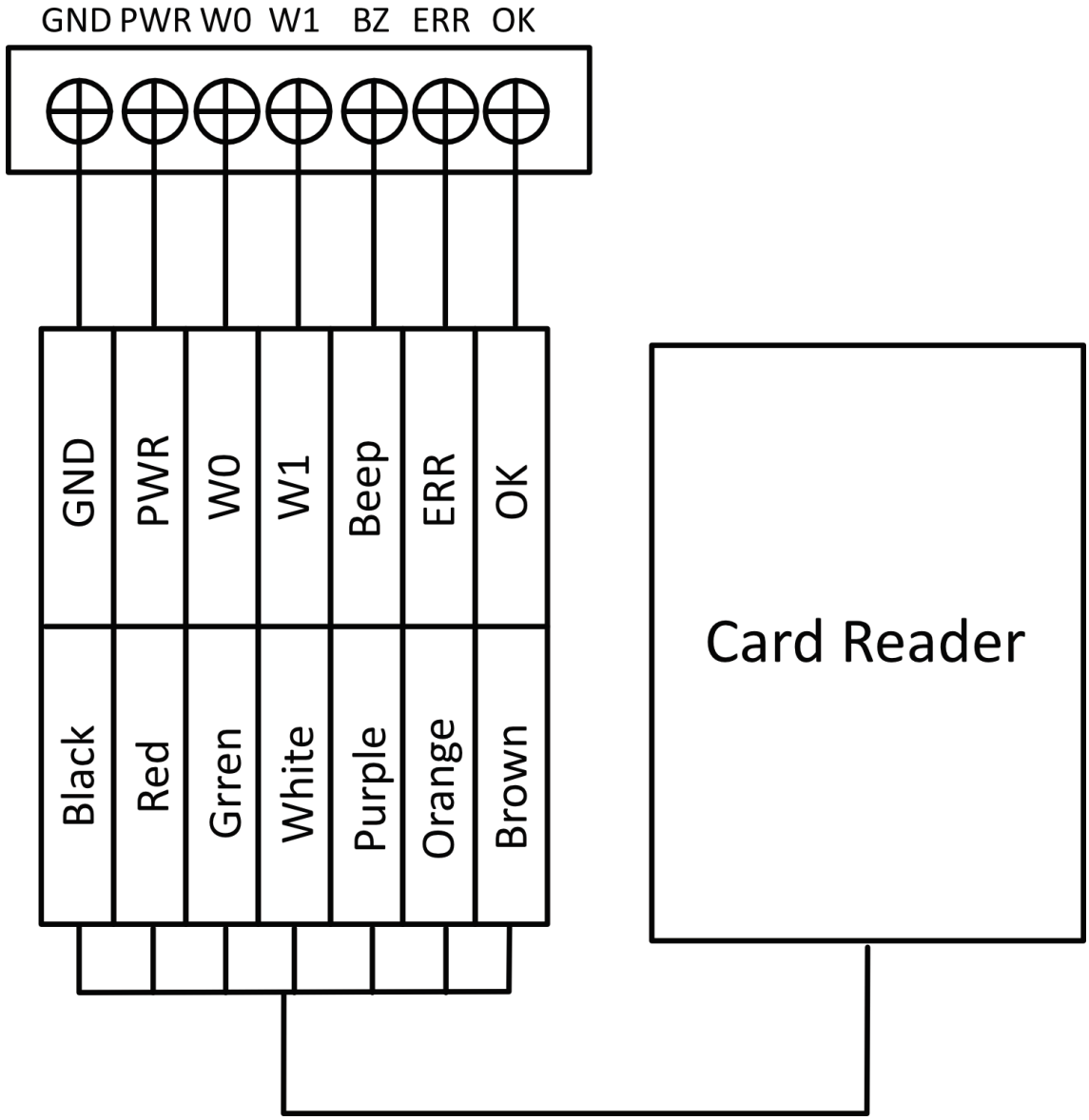


Figure 4-6 Card Reader

4.7 RS-485 Wiring

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

Note

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

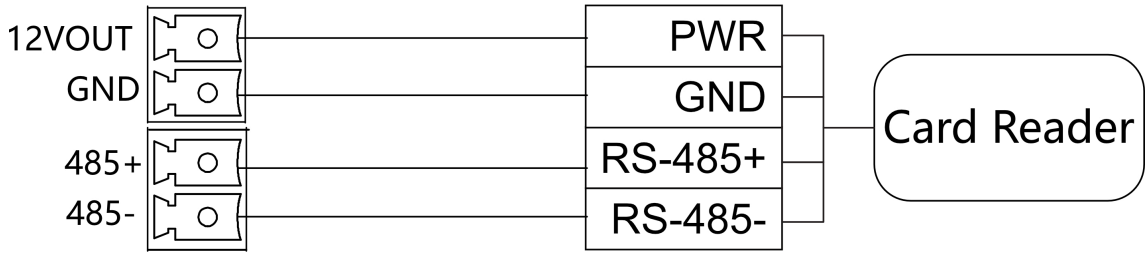


Figure 4-7 Wiring RS-485

4.8 RS-232 Wiring

Note

There are 2 RS-232 interfaces on the optional board. The RS-232A corresponds to port 1 on web, and is for QR code scanner connection at entrance by default. The RS-232B corresponds to port 2 on web, and is for QR code scanner connection at exit by default;

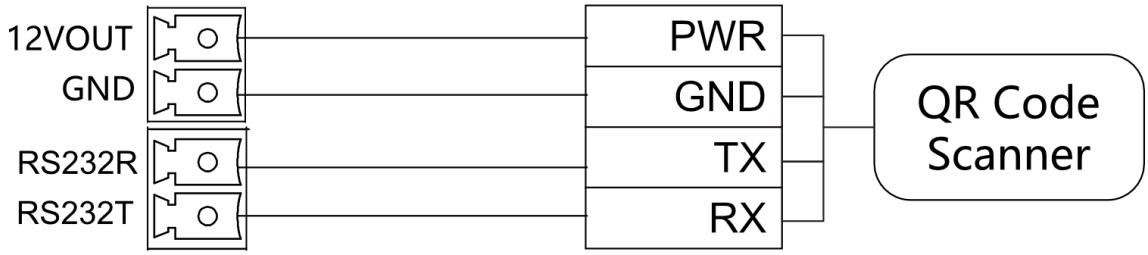


Figure 4-8 RS-232 Wiring

4.9 Alarm Input Wiring

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

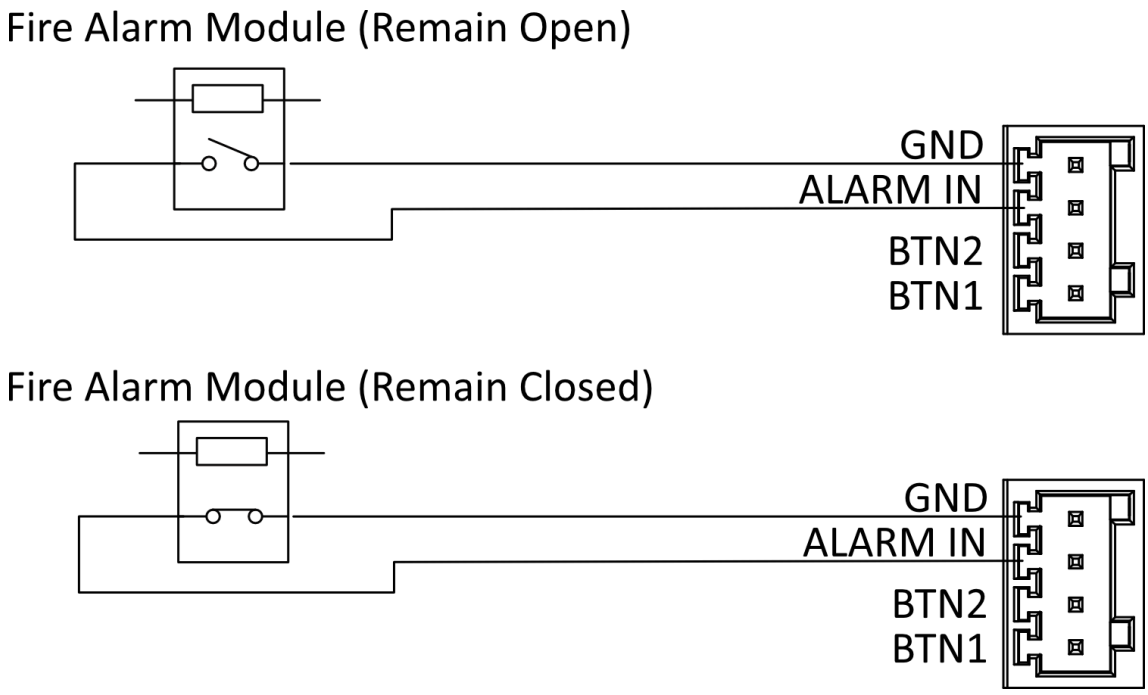


Figure 4-9 Alarm Input

4.10 Exit Button Wiring

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

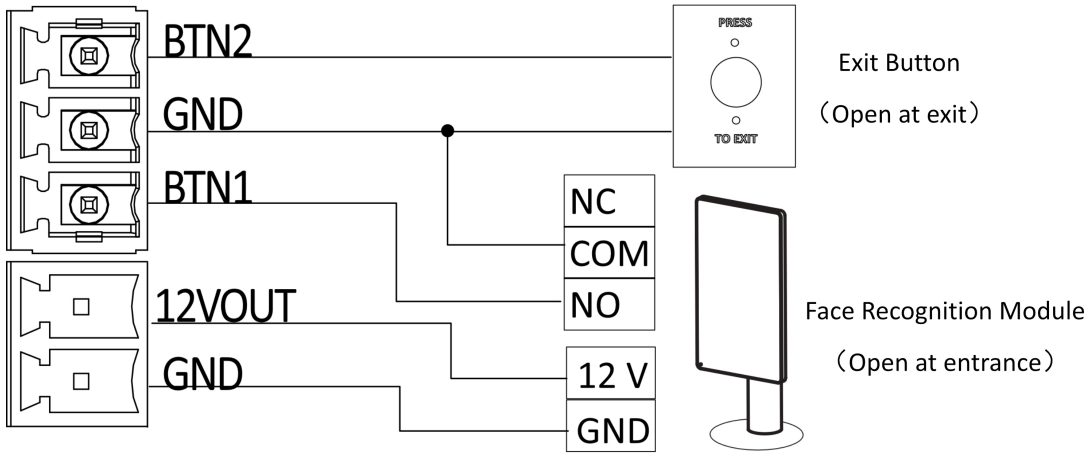


Figure 4-10 Exit Button Wiring

Note

- The face recognition devices are powered via 12 VDC power output interface of the main and sub lane control board.
- Barrier open at the entrance: connect to BTN1 and GND.
- Barrier open at the exit: connect to BTN2 and GND.

Chapter 5 Device Settings

After installation and wiring completed, the turnstile will learn the open and closed position automatically.

After the learning, the turnstile is in the normal mode. You can also set the turnstile to test mode, passing mode and memory mode, pair the keyfob, initialize the hardware, switching between RS-485 communication mode and RS-232 communication mode, and view relay output NO/NC diagram by setting the DIP switch on the access control board.

- Normal Mode: The device will work properly.
- Test Mode: Test mode is the same as the normal mode except that the device cannot report the alarm, the event, or the people counting information to the center.
- Passing Mode: There are 9 passing modes, including controlled bi-direction, controlled entrance and prohibited exit, controlled entrance and free exit, free bi-direction, free entrance and controlled exit, free entrance and prohibited exit, prohibited bi-direction, prohibited entrance and free exit.
- Memory Mode: By default, the memory mode is enabled. When multiple cards are presented and authenticated, it allows multiple persons passing through the lane. When it counts the passing people number is equal to the card presented times, or no person passing through the lane after the last person passing, the barriers will be closed.

Note

You can also set the DIP switch on the access control board to control the entrance and exit controlling type, keyfob pairing, etc. For details about the DIP switch value, see .

5.1 Configuration via Button

Button Description

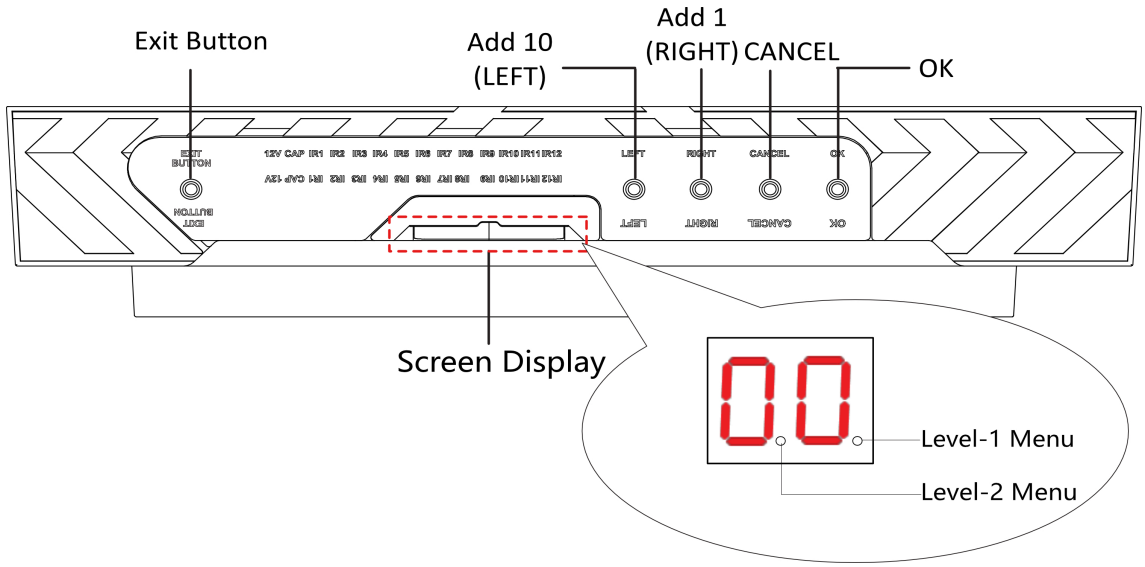


Figure 5-1 Button

Exit Button

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

Parameter Configuration Button

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

Note

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

Button Configuration Procedure

Steps:

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

Note

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

Example

Take the procedure of setting barrier opening duration (entrance) to 8 s as example.

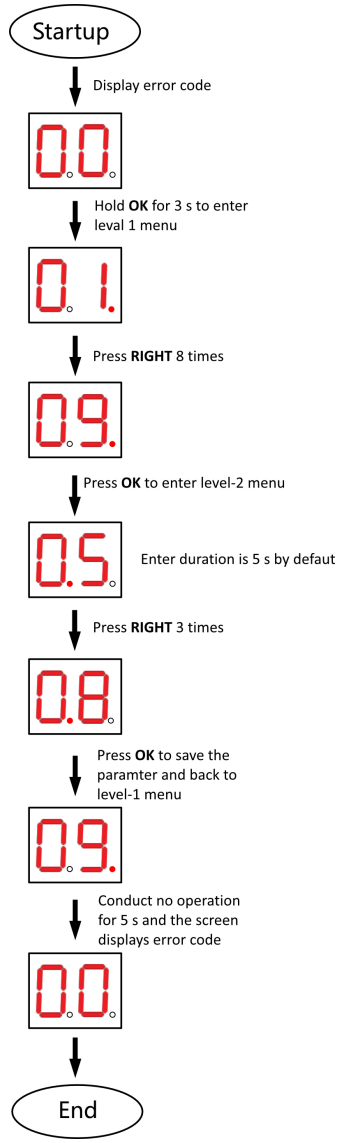


Figure 5-2 Procedure

Hold **OK** for 3 s until you hear one beep. The device enters the configuration mode and the level 1 decimal point lights up. The display screen will display the No. **1**.

Press **RIGHT** 8 times and then press **OK** to enter the level-2 menu and the barrier opening duration (entrance) is 5 s by default.

Press **RIGHT** 3 times to set the barrier opening duration (entrance) as 8 s. Press **OK** to save the settings.

5.2 Study Mode Settings

5.2.1 Set Study Mode via Button

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

Steps

Note

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

1. Enter the study mode.
   1) Enter the configuration mode.
   2) Set the configuration No. in Level-1 to **1**. The device will enter the study mode.
   3) Set the configuration No. in the Level-2 menu to **2**. The device will enter the study mode.
2. Power off the device and swing the barrier until it is vertical to the pedestal.
3. Power on the device.
   The device will remember the current position automatically.
4. Reboot the device when you hear **Study accomplished. Please reboot.**

5.3 Keyfob Pairing

Pair keyfob via button or DIP switch.

5.3.1 Pair Keyfob via Button

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

Before You Start
Ask our technique supports or sales and purchase the keyfob.

Steps

Note

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

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

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

2. Hold the **Close** button for more than 10 seconds.

The keyfob's indicator will flash if the pairing is completed.

3. Exit the keyfob pairing mode.

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

4. Reboot the device to take effect.

5.4 Initialize Device

Steps

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

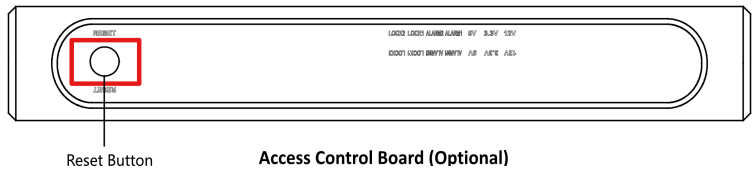


Figure 5-3 Initialization Button Position

2. The device will start restoring to factory settings.

3. When the process is finished, the device will beep for 3 s.

Caution

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

Note

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

Chapter 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 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.

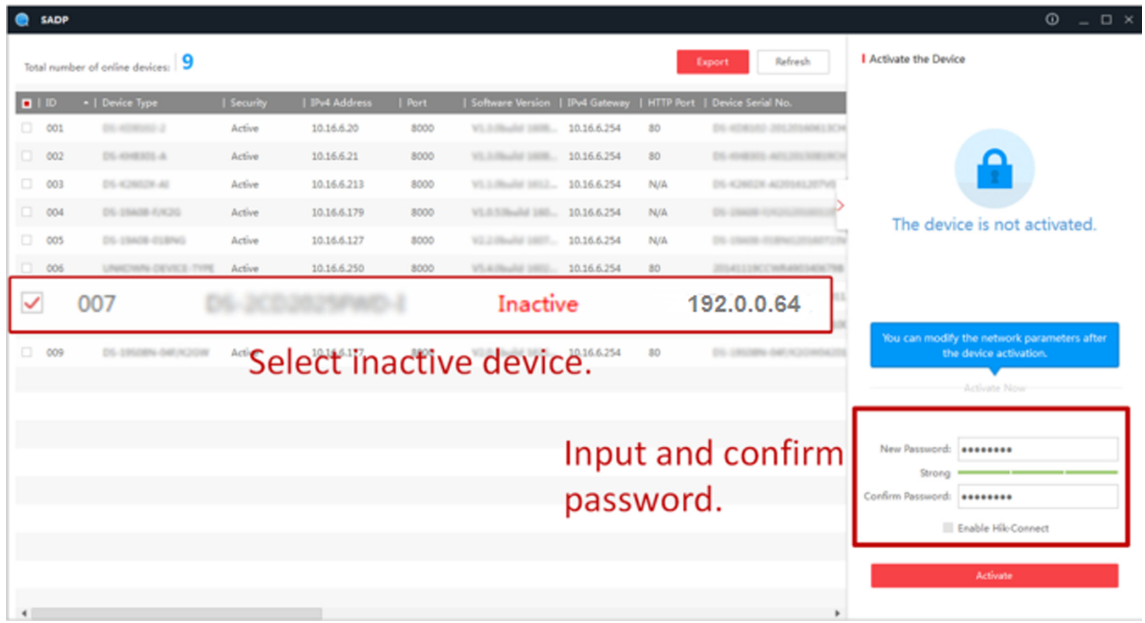
Steps

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.

6.3 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.

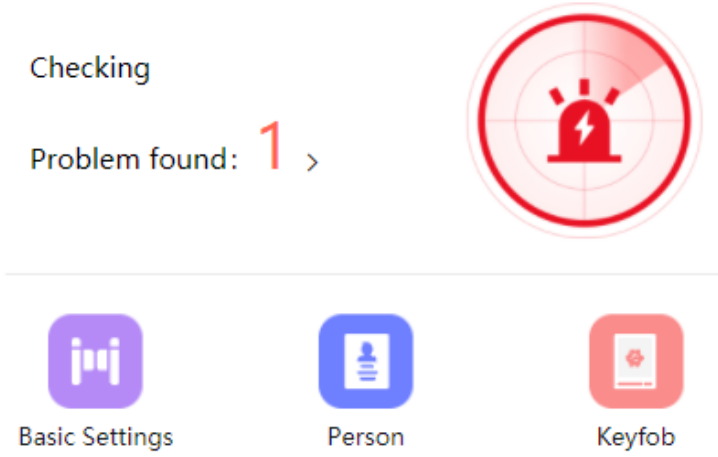


Figure 7-1 Status and Quick Settings

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, person page, and keyfob settings page.
You can remotely control barrier by tap the icons.

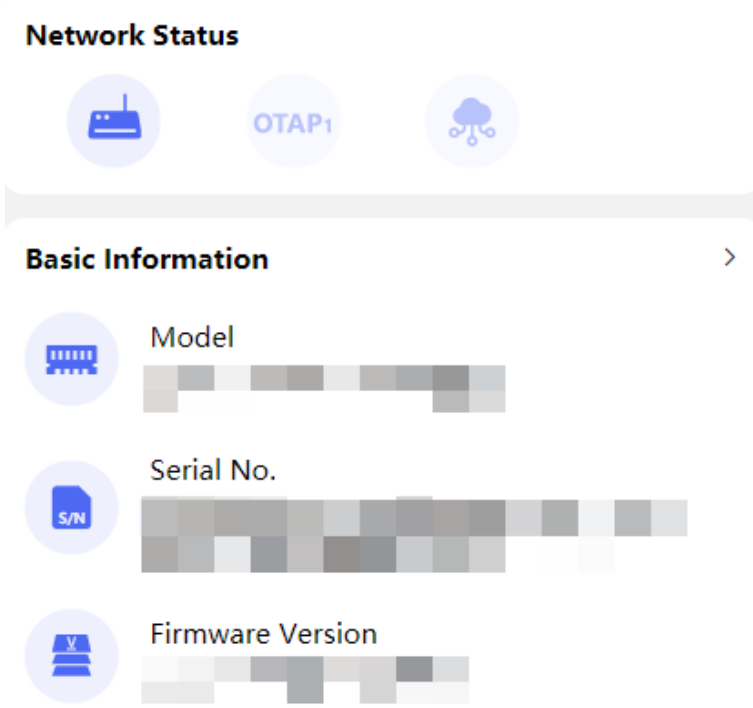


Figure 7-2 Network Status and Basic Information

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** .

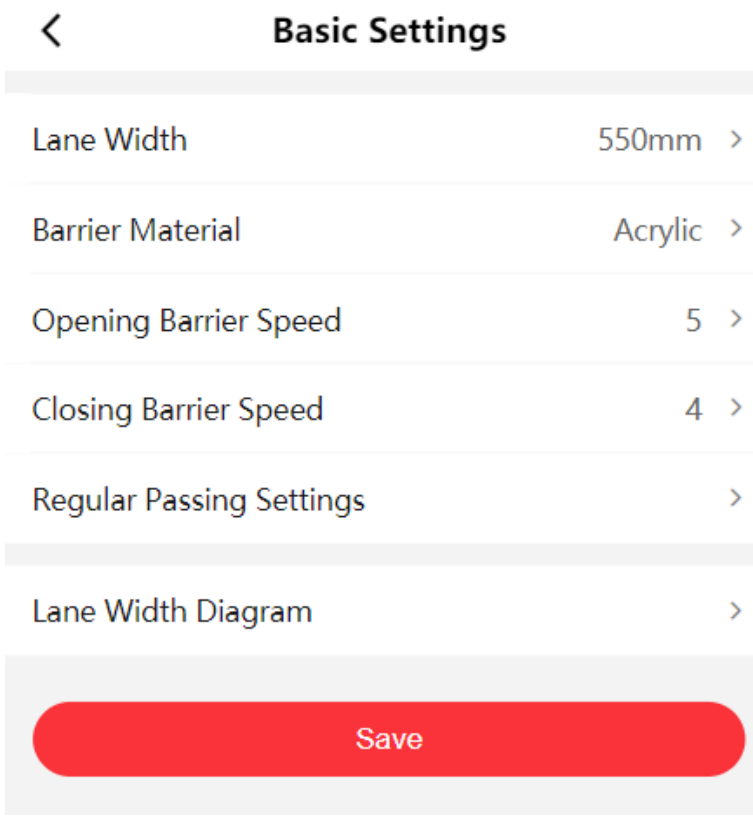


Figure 7-3 Turnstile Basic Parameters

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

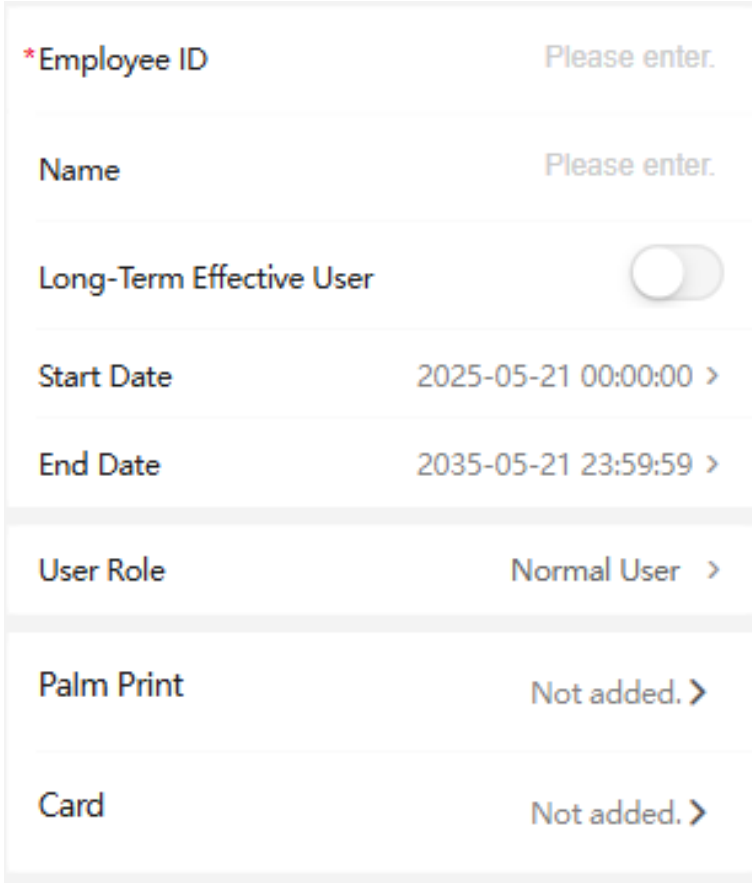


Figure 7-4 Person Management

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 Palm Print

On the person management page, tap **+ → Palm Print** .
Tap **+**, and follow the instruction to add a palm print.
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**.

Edit Person

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.

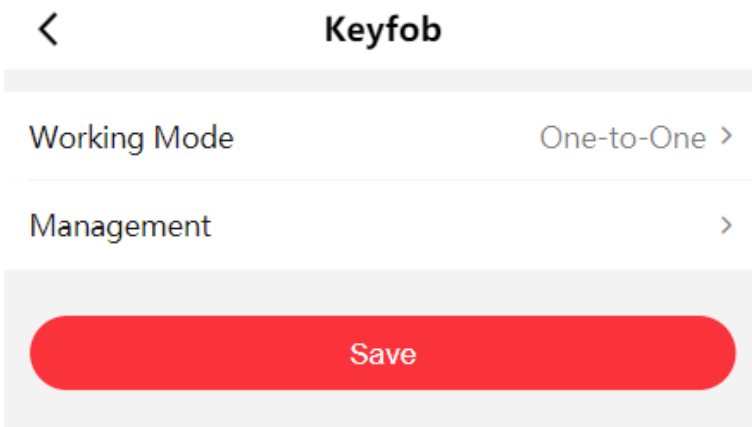


Figure 7-5 Keyfob Settings

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

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

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, card and event.

Tap **Save**.

7.3.6 Set Device Time

Set the time zone of the device and the device current time.

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

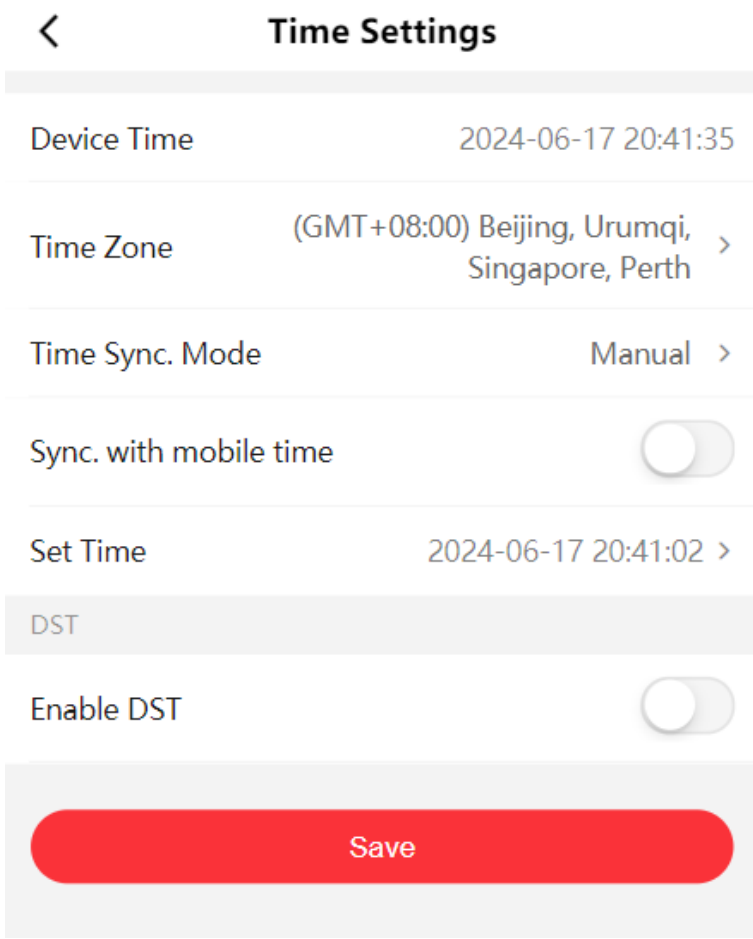


Figure 7-6 Time Settings

Time Zone

Tap to select a time zone for the device.

Time Sync. Mode

Manual

By default, manually synchronization is checked, you can set the device time manually.

NTP

You should Set the NTP server's IP address, NTP port, and interval.

Enable DST

You can enable DST and set the start time and end time of DST. And also you can set the 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

You can configure the wired network, Wi-Fi and hotspot parameters of the device.

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 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** .

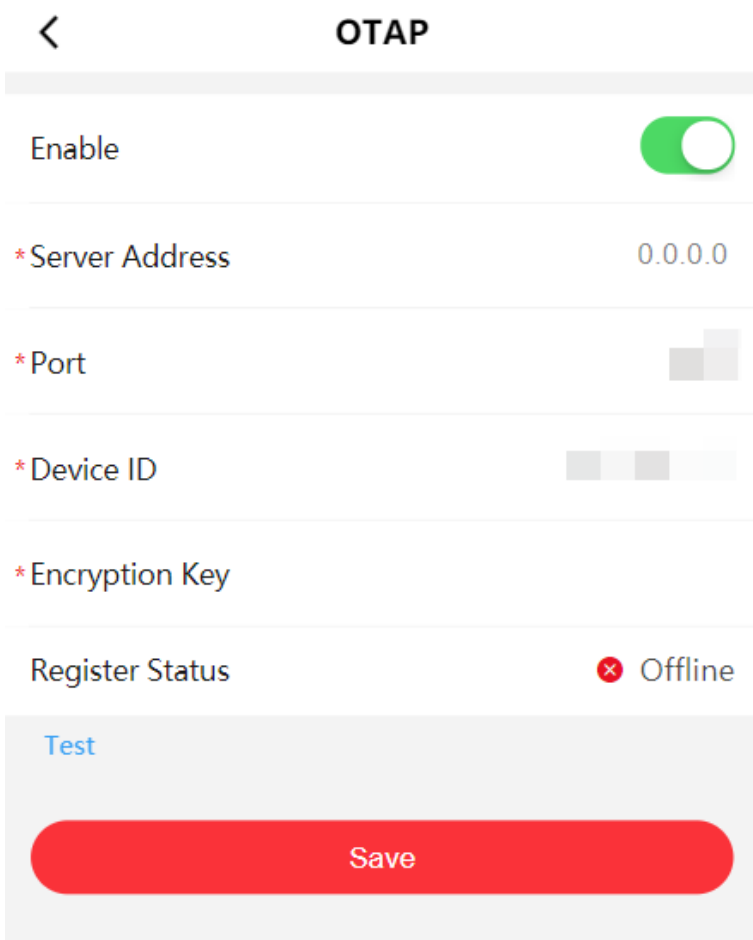


Figure 7-7 OTAP

2. Slide **Enable**.
3. Set server address, port, device ID and encryption key.
4. Tap **Test**, and make sure the device can connect to the server and registration completed.
5. 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**.

Enter the search conditions, including the employee ID, the name, the card No., the start time, and the end time, and tap **Search**.

Note

Support searching for names within 32 digits.

The result will display 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** .

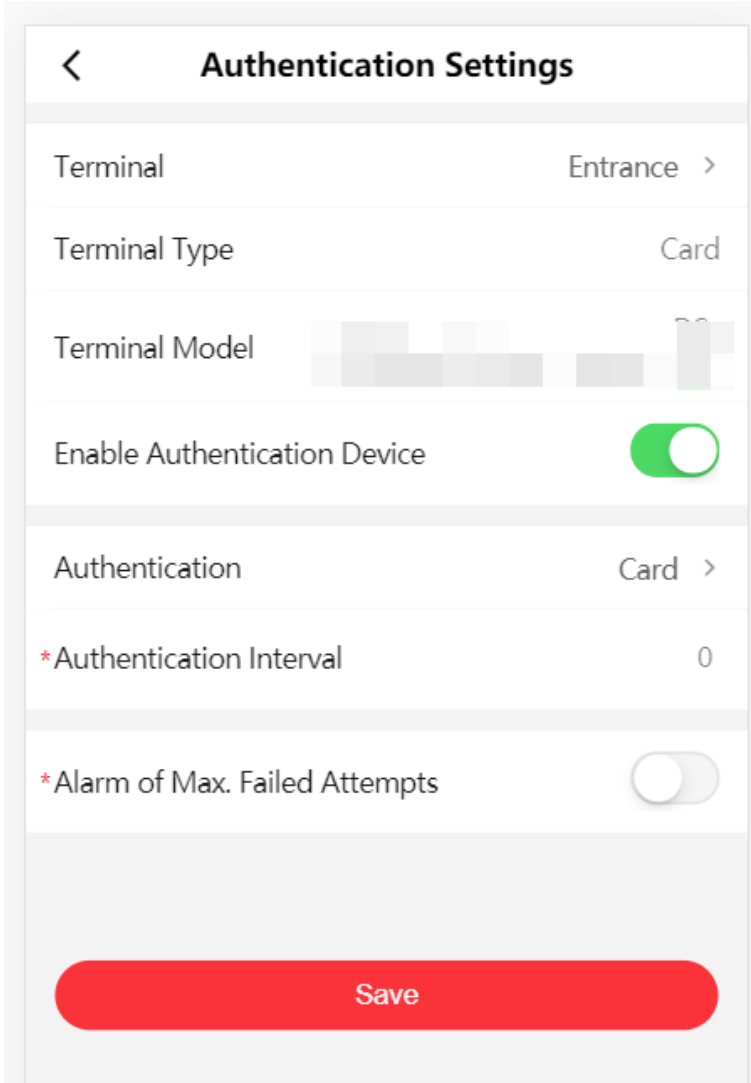


Figure 7-8 Authentication Settings

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.

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.

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.

Set Door Parameters

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

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

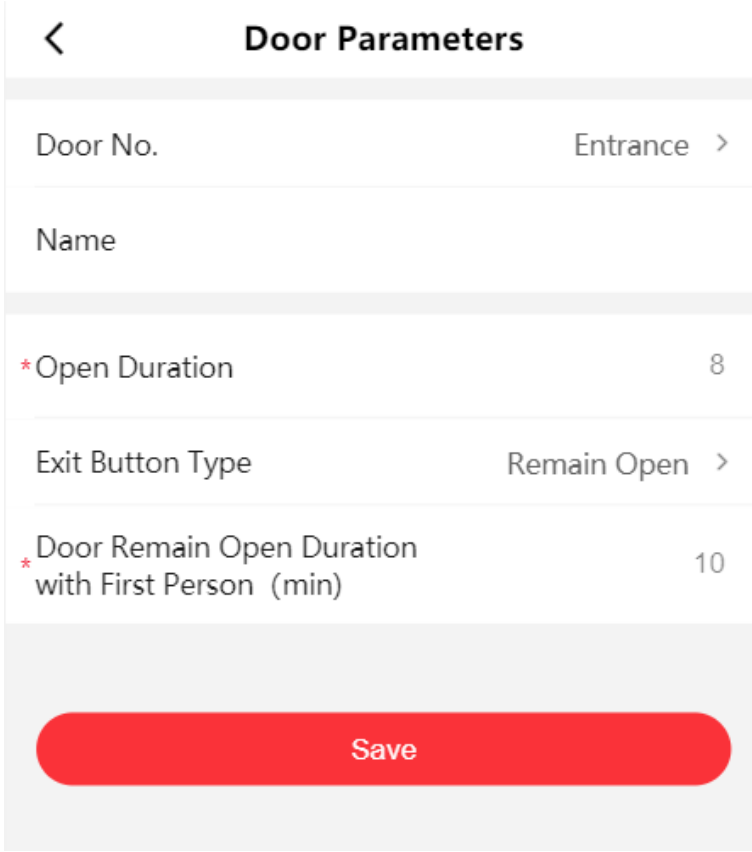


Figure 7-9 Door Parameters

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

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

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

Terminal Settings

Set the working mode.

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

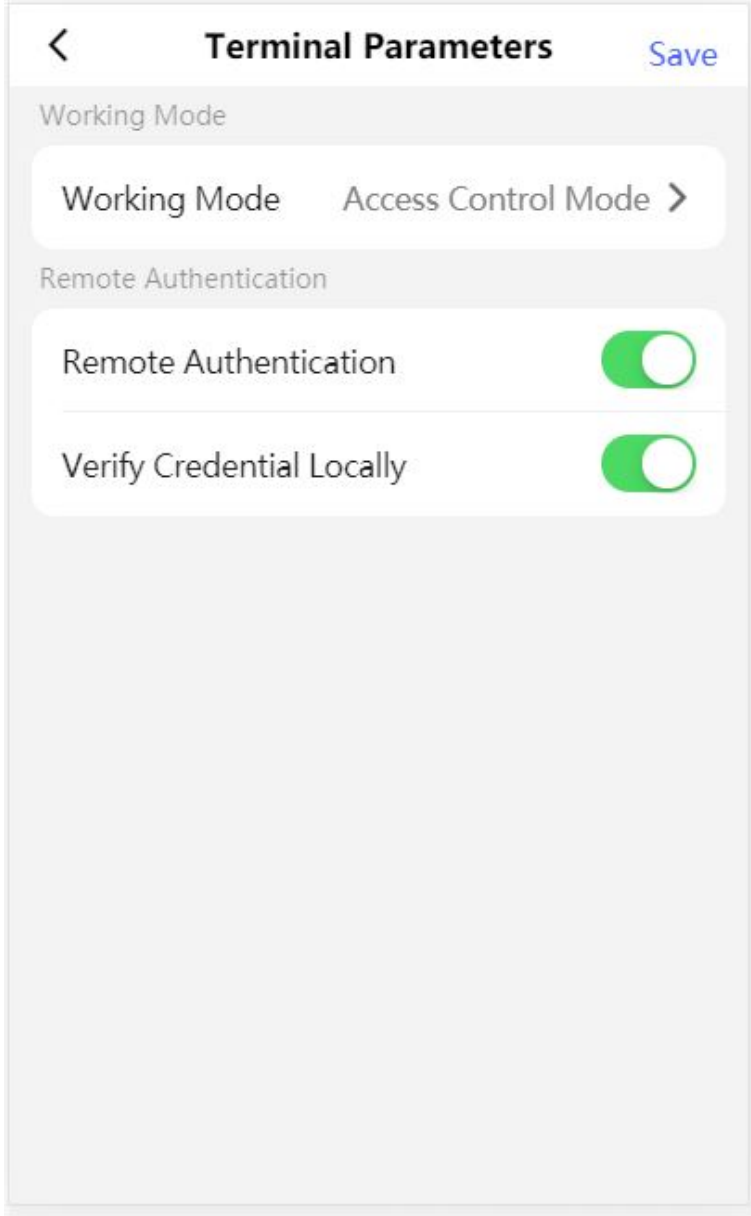


Figure 7-10 Terminal Parameters

Permission Free Mode

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

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

Access Control Mode

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

Remote Authentication

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

Verify Credential Locally

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

Set Card Security

Configure cards for the device.

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

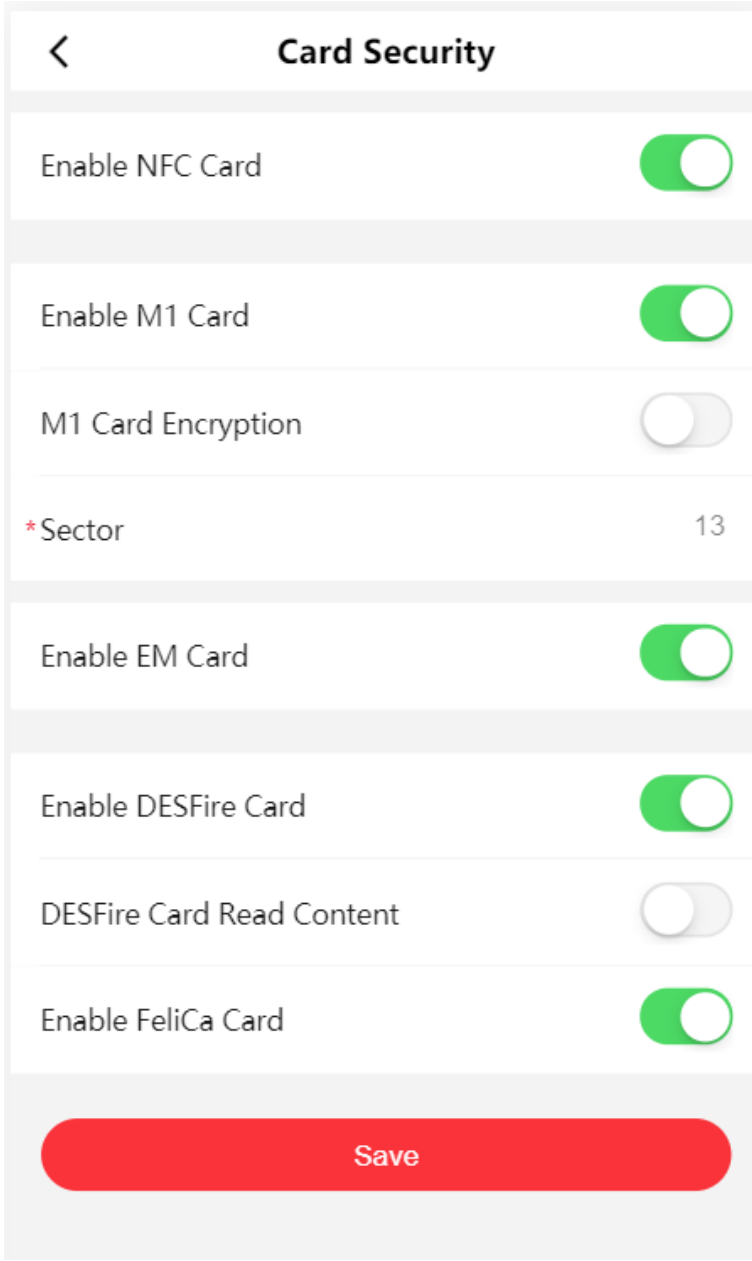


Figure 7-11 Card Security

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

Enable NFC Card

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

Enable M1 Card

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

M1 Card Encryption

M1 card encryption can improve the security level of authentication.

Sector

Enable the function and set the encryption sector.

Note

It is recommended to encrypt sector 13.

Enable EM Card

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

Note

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

Enable DESFire Card

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

DESFire Card Read Content

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

Enable FeliCa Card

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

7.3.13 Turnstile Parameters Settings

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.

   Authentication Number

   The number of passing people verified through card swiping, 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**.

Other Settings

Tap ≡ → **Other Settings** .

Set the parameters and tap **Save**.

Alarm Output Duration

Set duration as 0 means remaining output.

Temperature Unit

Select temperature unit.

Lightboard Brightness

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

QR Code Supplement Light Mode

Set the mode as **Wake-up** or **Solid**.

Wake-up

When there is something closing to the device, the supplement light will be waked up.

Solid

The supplement light of the QR code will be on all the time.

Barrier Closing Delay

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

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.

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.

7.3.14 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

Tap **Restore to Default Settings**, enter the admin password and click **OK**. The device will restore to the default settings, except for the device IP address and the user information.

Restore to Factory Settings

Tap **Restore to Factory Settings**, enter the admin password and click **OK**. 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.

7.3.15 Device Debugging

Perform learning and self-test functions, and manage debugging commands.

Tap ≡ → **Device Debugging** .

Motor Learning & 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

Select a channel (lane), and tap **Encoder Self-Test**, the select lane will start self-test.

Debug 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.

7.3.16 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.

7.3.17 View Open Source Software License on Mobile Web

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

7.3.18 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 Quick Operation via Web Browser

8.1 Time Settings

Click in the top right of the web page to enter the wizard page. After setting device language, you can click **Next** to enter the **Time Settings** page.

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.

Server Address/NTP Port/Interval

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

DST

You can 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.

Chapter 9 Operation via PC Web

9.1 Login

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

Note

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

Login via Web Browser

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

Login via Remote Configuration of Client Software

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

9.2 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.

9.3 Help

9.3.1 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.

9.3.2 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.

9.3.3 Logout

Log out the account.

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

9.4 Person Management

Click **Add** to add the person's information, including the basic information, certificate, 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 **Validity Period** and the person can only has the permission within the configured time period according to your actual needs.
Click **Save** to save the settings.

Add Card

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

Note

Up to 50 cards can be added.

Click **Save** to save the settings.

Authentication Settings

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

Click **Save** to save the settings.

Import/Export Person Data

Export Person Data

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

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

Note

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

Importing Person Data

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

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

Note

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

9.5 Device Management

9.5.1 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.

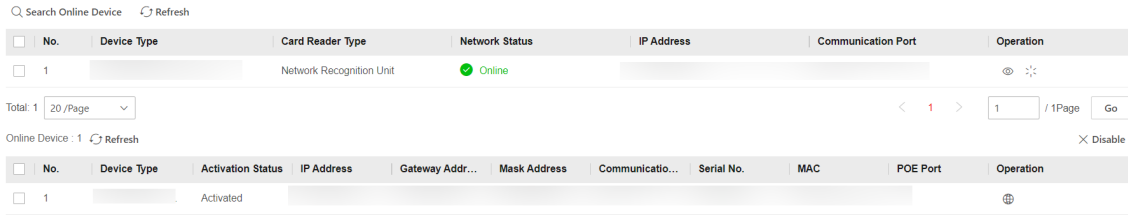


Figure 9-1 Device Management

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**.

9.5.2 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.

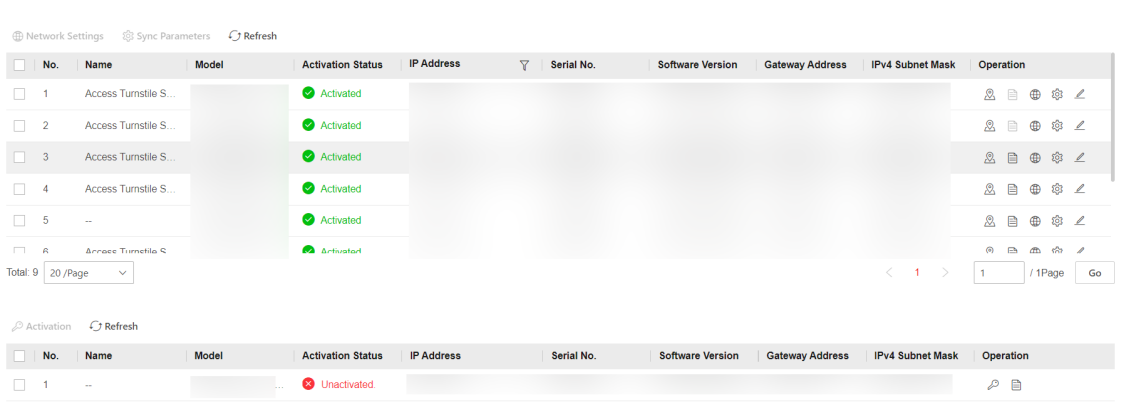


Figure 9-2 Batch Manage Devices Page

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**.

9.6 Turnstile

9.6.1 Live View

You can view the live video of the device, real-time event, person information, network status, basic information, and device capacity.

Function Descriptions:

Door Status

Click to view the device live view.

Set the volume when starting live view.

Note

If you adjust the volume when starting two-way audio, you may hear a repeated sounds.

You can capture image when starting live view.

Select the streaming type when starting live view. You can select from the main stream and the sub stream.

Full screen view.

/ / /

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

Controlled Status

You can select open/closed/remaining open/remaining closed status according to your actual needs.

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, card, and fingerprint.

Network Status

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

Basic Information

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

Device Capacity

You can view the face, card, and fingerprint capacity.

View More

You can click **View More** to view the device name, device No., language, model, serial No., version, number of channels, IO input, IO output, lock, alarm input, alarm output, and device capacity, etc.

9.6.2 Search Event

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

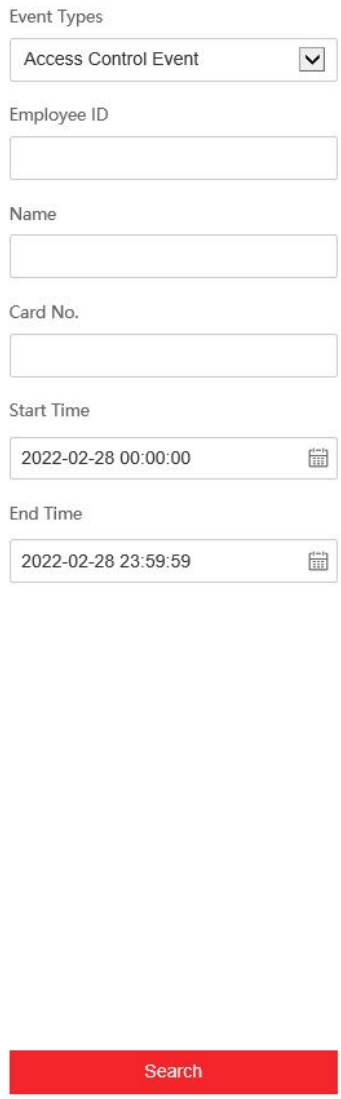


Figure 9-3 Search Event

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.

9.6.3 Paramenter Settings

Set Door Parameters

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

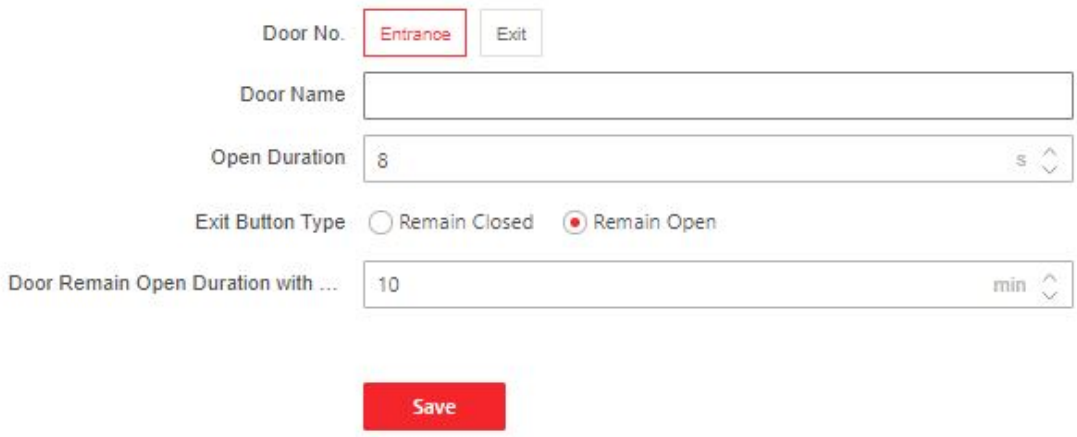


Figure 9-4 Door Parameters Settings Page

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.

Note

The duration ranges from 1 s to 1440 s.

Set Authentication Parameters

Click **Turnstile → Parameters Settings → Authentication Settings** .

Note

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

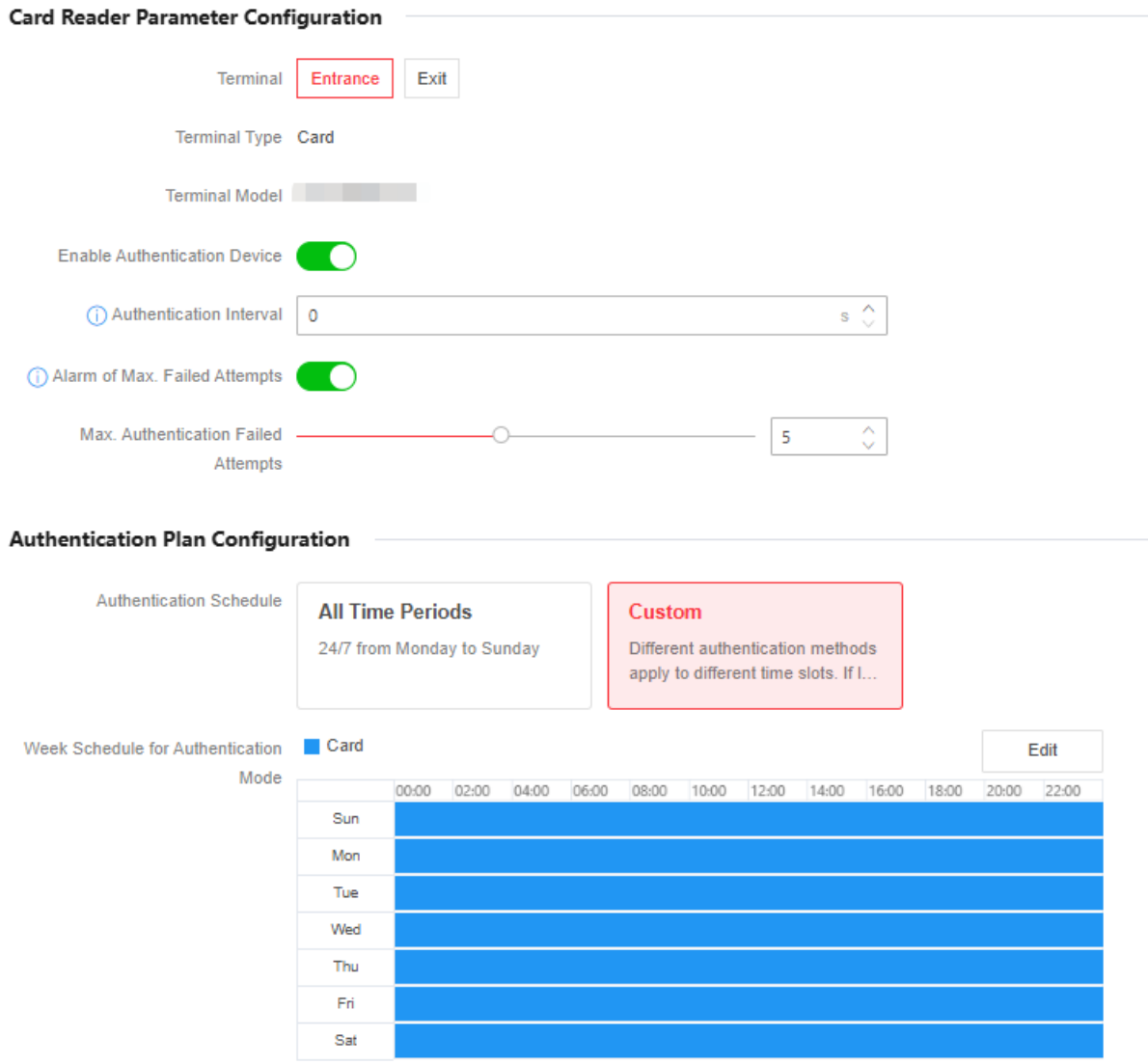


Figure 9-5 Authentication Settings

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.

Authentication Interval

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

Alarm of Max. Failed Attempts

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

Max. Authentication Failed Attempts

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

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.

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.

Set Privacy Parameters

Set the event storage type.

Go to **Turnstile → Parameter Settings → Privacy Settings**

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

9.6.4 Turnstile Configuration

Basic Parameters

Set turnstile basic parameters.

Steps

1. Click **Turnstile → Turnstile Configuration → Basic Parameters** to enter the page.
2. View the **Channel Type**, **Channel Model**, and **Working Status**.
3. Set parameters.

   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.
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.
6. Click **Save**.

Keyfob

Set keyfob parameters.

Steps

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

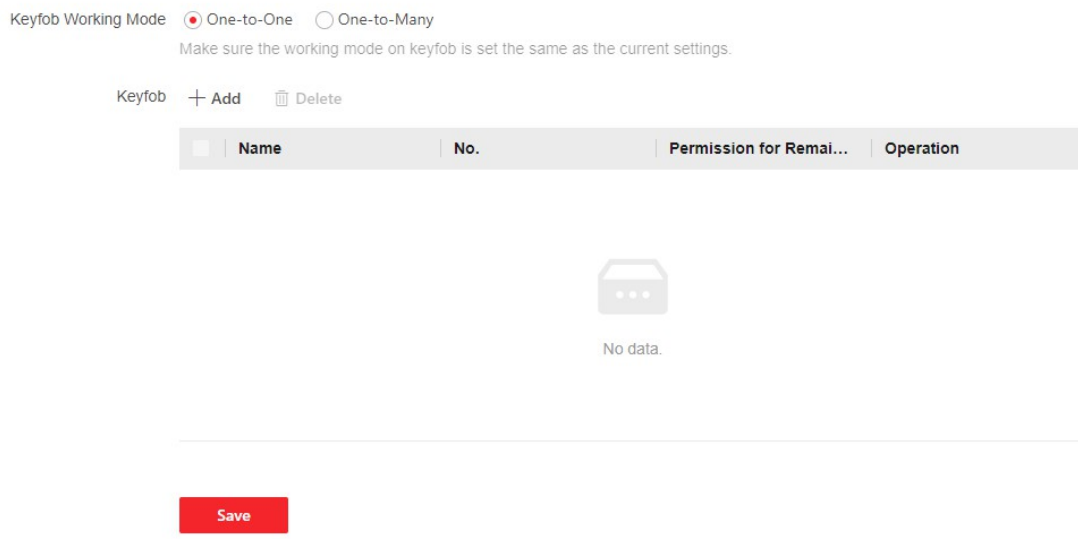


Figure 9-6 Keyfob

2. Add keyfob.
   1) Click **Add** and the keyfob adding window will pop up.
   2) Enter the **Name** and **Serial No.**.
   3) Check to enable **Permission for Remaining Open** at your actual needs.
   4) Click **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 Configuration → dToF Sensor Configuration** to enter the page.

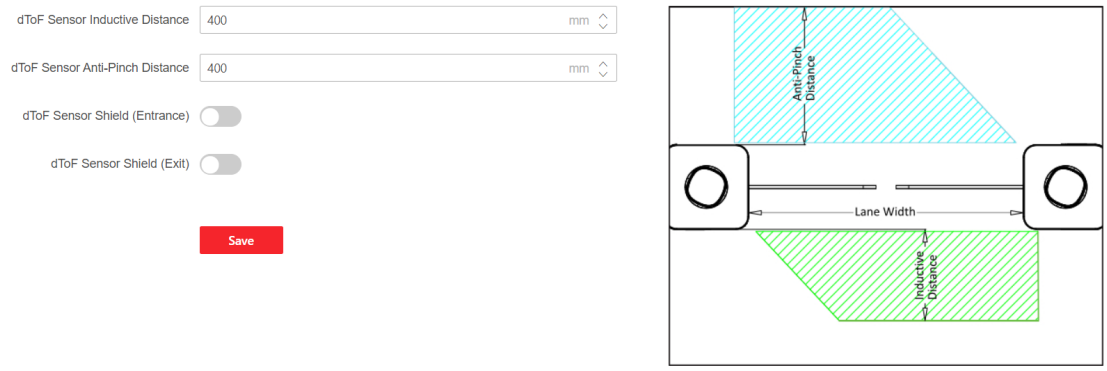


Figure 9-7 dToF Sensor Settings

2. Set the parameters.

   dToF Sensor Inductive Distance

   Configurable inductive distance for door opening. Larger values increase the inductive coverage area.

   dToF Sensor Anti-Pinch Distance

   Configurable safety distance during passage. Larger values expand the protected area.

   dToF Sensor Shield (Entrance/Exit)

   If dToF sensors in the passage are damaged, temporarily disable them to restore functionality. Warning: Gate operation may pose collision risks to passersby when sensors are disabled.

3. Click **Save**.

People Counting

Set people counting.

Steps

1. Click **Turnstile → Turnstile Configuration → People Counting Settings** to enter the page.
2. Enable **People Counting**.
3. Enable **Device Offline People Counting**, the device will count people numbers even if it is offline.
4. Select **People Statistics Type**.

   Invalid

   Disable people counting.

   Authentication Number

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

5. **Optional:** Click **Clear** to clear all the people counting information.

Other Settings

Set other parameters.

Steps

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

   Alarm Output Duration

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

   Temperature Unit

   Select unit.

   QR Code Supplement Light Mode

   Set the mode as **Wake-up** or **Solid**.

   Wake-up

   When there is something closing to the device, the supplement light will be waked up.

   Solid

   The supplement light of the QR code will be on all the time.

   Alarm Buzzing Duration

   Set the duration of alarm sound.

   Barrier Closing Delay

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

   Memory Mode

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

   Fire Input Type

   In the normally open state, closing triggers fire protection. In the normally closed state, disconnection triggers fire protection.
3. Click **More** to adjust **Barrier Open Angle**.
4. Click **Save**.

9.7 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.

9.7.1 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 and event.

9.7.2 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** .

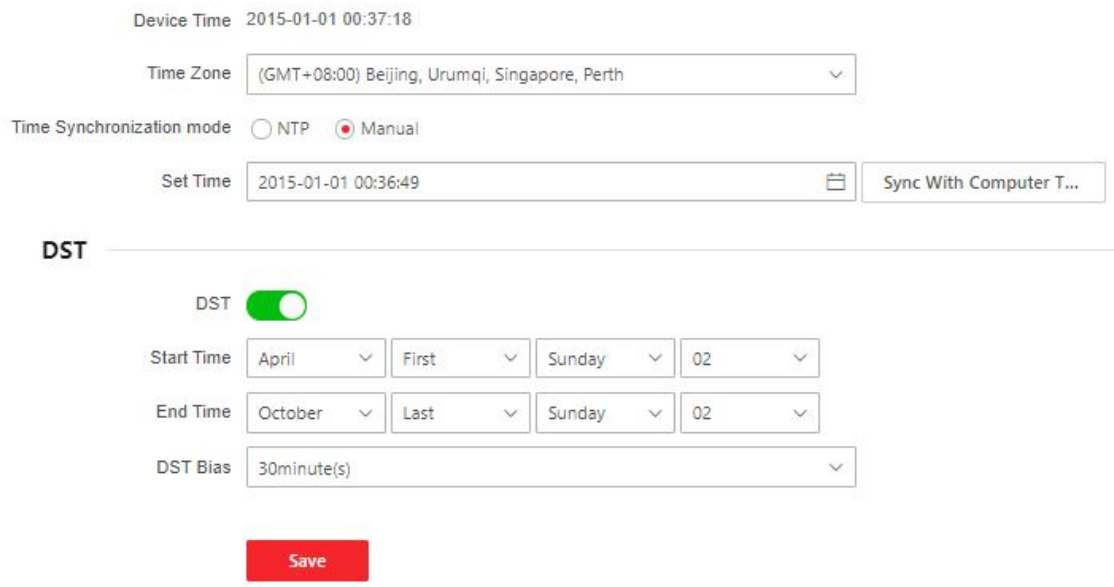


Figure 9-8 Time Settings

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.

9.7.3 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.

9.7.4 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.

9.7.5 View Device Arming/Disarming Information

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.

9.7.6 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.

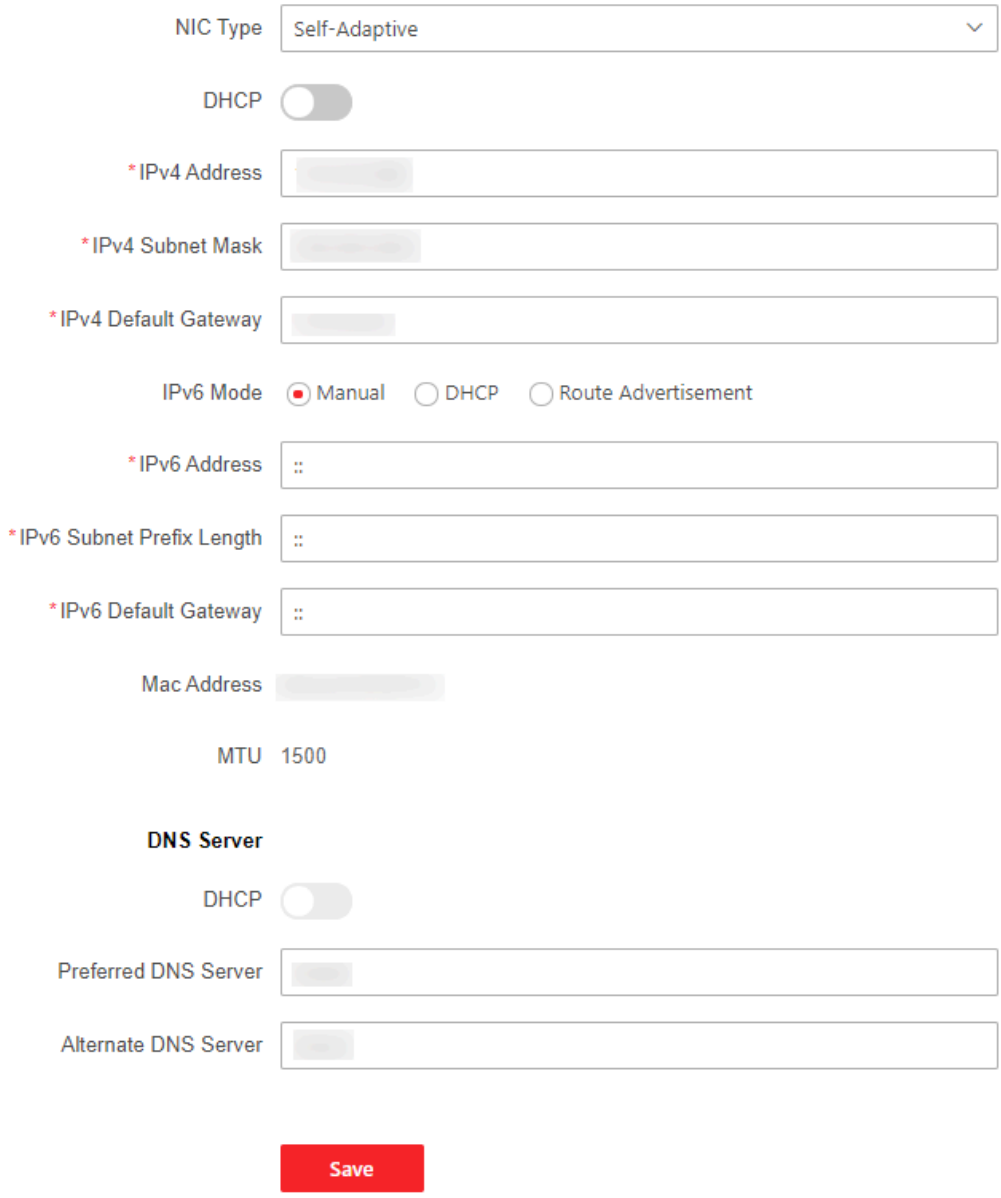


Figure 9-9 Set TCP/IP

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.

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.

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** .

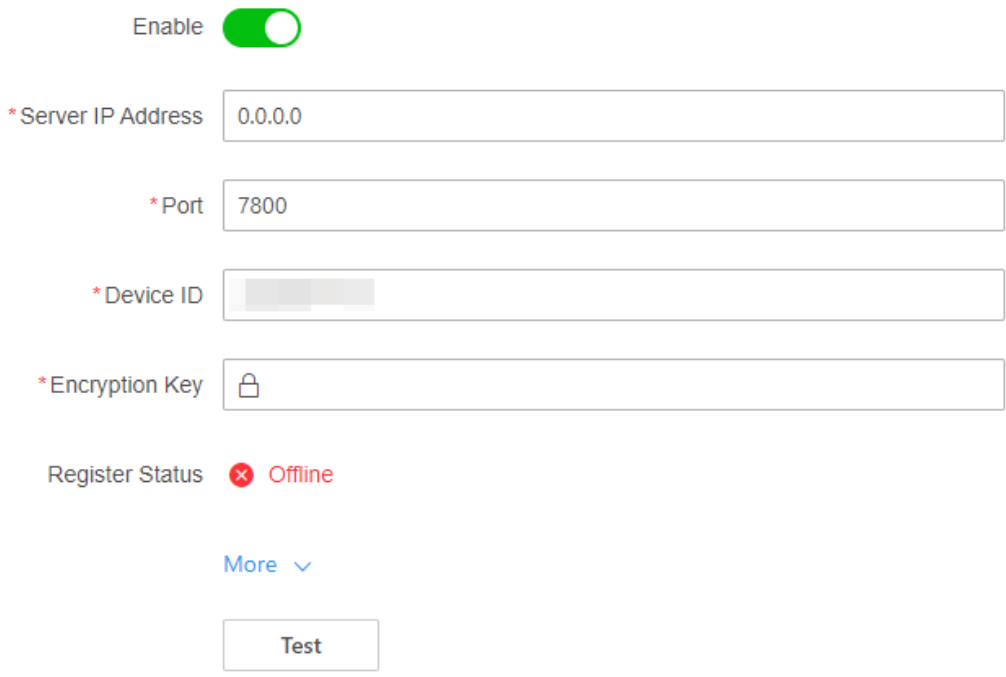


Figure 9-10 Set OTAP

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.

9.7.7 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**.

9.7.8 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.

1. Click **System and Maintenance → System Configuration → Access Configuration → Wiegand Settings** .
2. Select **Entrance** or **Exit** as the card reader's direction.
3. Enable **Wiegand** to enable the Wiegand function.
4. Set a transmission direction.

   Input

   The device can connect a Wiegand card reader.

5. Select **Wiegand Mode** from the drop-down list.
6. Click **Save**.

Note

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

9.7.9 Serial Port Settings

Set serial port parameters.

Steps

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

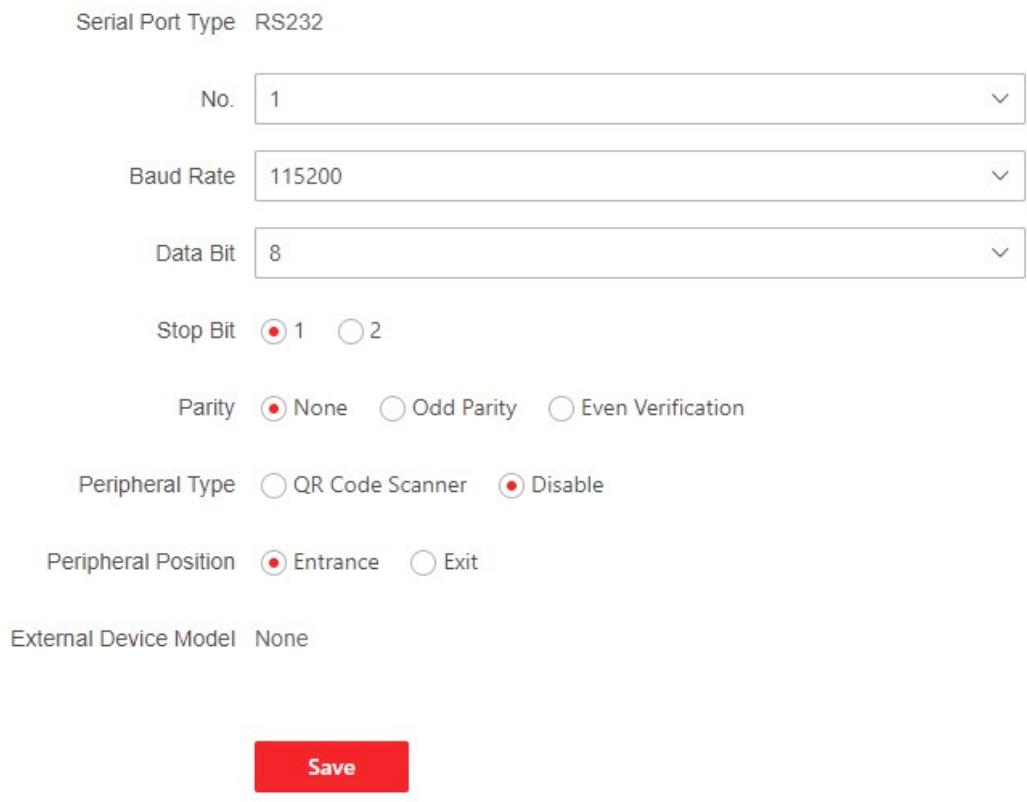


Figure 9-11 Serial Port Configuration

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

Baud Rate

Configure data transfer rate.

Data Bit

Configure the number of bits to send data.

Stop Bit

Select the end point for one frame of data.

Parity

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

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

9.7.10 Event Linkage

Set linked actions for events.

Steps

1. Click **Turnstile → Parameters Settings → Linkage Configuration** to enter the settings page.
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 **Link Employee ID** , you need to enter the employee ID and select the card reader.
3. Set linkage action.

   Buzzer Linkage

   Select **Start Buzzing** or **Stop Buzzing**. When an alarm is triggered, the buzzer will be started or stopped.

   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.

9.7.11 Maintenance

Reboot

You can reboot the device.

Click **System and Maintenance → Maintenance → Restart** to enter the settings page.

Click **Restart** to reboot the device.

Upgrade

Upgrade Locally via PC Web

You can upgrade the device locally.

Click **System and Maintenance → Maintenance → Upgrade** to enter the settings page.

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

Online Upgrading via PC Web

You can upgrade the device online.

Click **System and Maintenance → Maintenance → Upgarde** to enter the settings page.

Click**Check for Updates**to check whether there is updated versions.

If the device is connected to the network and added to Hik-Connect App, you can tap **Device Upgrade → Online Upgrade** on device for upgrading when there is an updated version in Hik-Connect App.

Restoration

Restore to Factory Settings via Web Browser

You can restore device to factory settings.

Click **System and Maintenance → Maintenance → Backup and Reset** to enter the settings page.

Click **Restore All**, enter the admin password and click **OK**, all parameters will be restored to the factory settings. You should activate the device before usage.

Restore to Default Settings via PC Web

You can restore device to default settings.

Click **System and Maintenance → Maintenance → Backup and Reset** to enter the settings page.

Click **Restore**, enter the admin password and click **OK**, the device will restore to the default settings, except for the device IP address and the user information.

Export Device Parameters via PC Web

Export device parameters.

Go to **System and Maintenance → Maintenance → Backup and Reset** .

Backup

Click **Export** to export device parameters.

Note

Export device parameters and import those parameters to other devices.

Import Device Parameters via PC Web

Import the configuration parameters.

Go to **System and Maintenance → Maintenance → Backup and Reset** .

Import Config File

Click and select a file from local PC. Click **Import**.

9.7.12 Device Debugging

You can set device debugging parameters.

Steps

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

Enable SSH

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

Motor Study & Self-Test

Lane Studying

Click **Start**, the device will enter the 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.

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** 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.

9.7.13 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**.

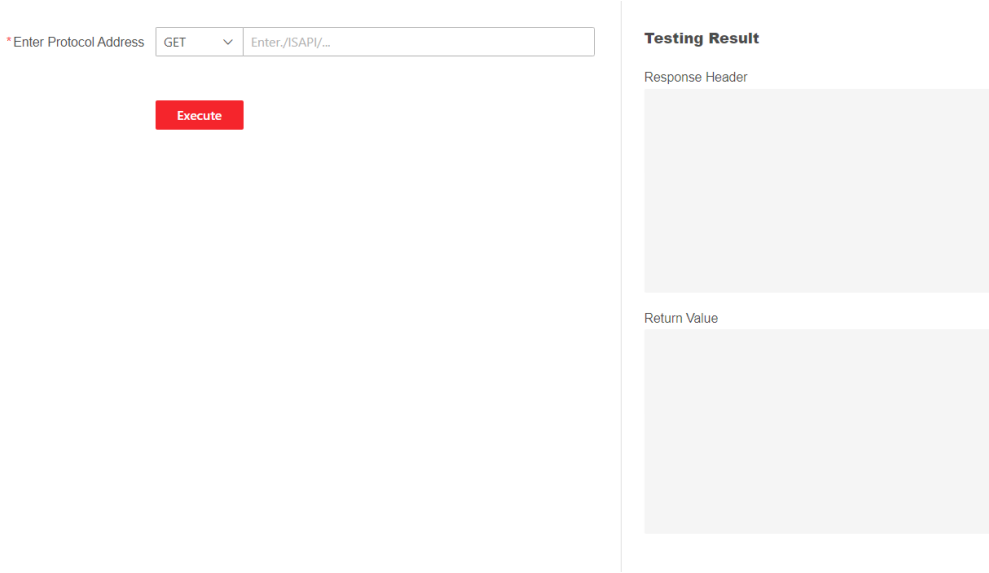


Figure 9-12 Protocol Testing

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

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

9.7.14 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.

9.7.15 Component Status

You can view the status of different components.

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 readers and USB 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.

dToF Sensor Status

You can view the dToF sensor status.

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.

9.7.16 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.

9.7.17 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**, **Anti-Spoofing Detection Threshold 1:N of Face with Mask**.
Enable **Lock Face for Anti-Spoofing Protection**, 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.

9.7.18 Certificate Management

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

Note

The function is only supported by certain device models.

Create and Import 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 10 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

HikCentral Access Control (HCAC)

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

http://enpinfodata.hikvision.com/analysisQR/showQR/f2f6cf42

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. Error Code Description

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

Error Reason	Code	Error Reason	Code
First IR Beam Triggered	01	Second IR Beam Triggered	02
Third IR Beam Triggered	03	Fourth IR Beam Triggered	04
Fifth IR Beam Triggered	05	Sixth IR Beam Triggered	06
Seventh IR Beam Triggered	07	Eighth IR Beam Triggered	08
Ninth IR Beam Triggered	09	Tenth IR Beam Triggered	10
Eleventh IR Beam Triggered	11	Twelfth IR Beam Triggered	12
Thirteenth IR Beam Triggered	13	Fourteenth IR Beam Triggered	14
Fifteenth IR Beam Triggered	15	Sixteenth IR Beam Triggered	16
Seventh IR Beam Triggered	17	Eighteenth IR Beam Triggered	18
Nineteenth IR Beam Triggered	19	Twentieth IR Beam Triggered	20
Optional Board Offline (If the board is not installed, the error code of "59" will appear but the device functions normally)	59	Interconnecting Exception	53
Not Studying	54	Barrier Obstruction	55
Exceeding Studying Range	56	Main Encoder Offline	57
Main Motor Offline	58	Sub Motor Obstruction	60
Sub Motor Exceeding Studying Range	61	Sub Encoder Offline	62
Sub Motor Offline	63	Main Motor Drive Fault	64
Sub Motor Drive Fault	65	Main Motor Fault	66
Sub Motor Fault	67	Main Motor Over-current	68
Main Motor Under-voltage	69	Main Motor Over-voltage	70
Sub Motor Over-current	71	Sub Motor Under-voltage	72
Sub Motor Over-voltage	73	Main Motor Barrier Opening Timeout	74

Error Reason	Code	Error Reason	Code
Sub Motor Barrier Opening Timeout	75	Main Motor Encoder Exception	76
Sub Motor Encoder Exception	77		

See Far, Go Further