DS-K3Y411B(L)X Series Flap Barrier

UD34147B

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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:

- 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:

- 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 completely applicable to anti-spoofing environments. If you require a higher security level, use multiple authentication modes.
- Do not stay in the lane when the device is rebooting.
- RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

- SUITABLE FOR MOUNTING ON CONCRETE OR OTHER NON-COMBUSTIBLE SURFACE ONLY.
- The instructions shall require connection of the equipment protective earthing conductor to the installation protective earthing conductor.

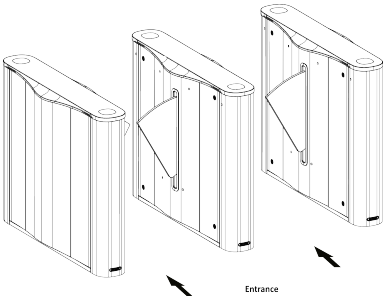
Available Models

Product Name	Model	Description
Flap Barrier	DS-K3Y411BX-L	Left Pedestal
	DS-K3Y411BLX-L	
	DS-K3Y411BX-M	Middle Pedestal
	DS-K3Y411BLX-M	
	DS-K3Y411BX-R	Right Pedestal
	DS-K3Y411BLX-R	

Contents

1 Overview

1.1 Introduction



The flap barrier with two barriers and 6 IR lights is designed to detect unauthorized entrance or exit. By adopting the flap barrier integratedly with the access control system, person should authenticate to pass through the lane via swiping IC or ID card, scanning QR code, etc. It is widely used in attractions, stadiums, construction sites, residences, etc.

1.2 Main Features

- Control mode, free passing mode and prohibition mode selectable on both entering and exiting direction.
- The barrier will be locked or stop working when people are nipped
- Anti-forced-accessing
  The barrier will be locked automatically without open-barrier signal.
- Self-detection, Self-diagnostics, and automatic alarm
- Audible and visual alarm will be triggered when detecting intrusion, tailgating, reverse passing, and climbing over barrier
- LED indicates the entrance/exit and passing status
- Barrier is in free status when powered down; If the device is installed with lithium battery (optional), the barrier remains open when powered down
- Fire alarm passing
  When the fire alarm is triggered, the barrier will be open automatically for emergency evacuation
- Valid passing duration settings
  System will cancel the passing permission if a person does not pass through the lane within the valid passing duration
- Adjustable indicator brightness
- Bidirectional (Entering/Exiting) lane
  The barrier opening and closing speed can be configured according to the visitor flow
- TCP/IP network communication

The communication data is specially encrypted to relieve the concern of privacy leak

- Permissions validation and anti-tailgating

2 System Wiring

The preparation before installation and general wiring.

Steps

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

Note

The distance between the nearest two line is 865.2 mm. L represents the lane width.

3. Slot on the installation surface and dig installation holes according to the hole position diagram.
4. Bury cables. Each lane buries 1 low voltage cable and 1 high voltage cable. For details, see the system wiring diagram below.

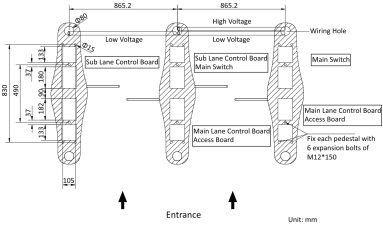


Figure 2-1 System Wiring Diagram

Note

- High voltage: AC power input
  Low voltage: interconnecting cable (communication cable and 24 V power cable) and network communication cable.
- The inner diameter of the low voltage conduit and of the high voltage (AC power cord) conduit should be larger than 30 mm. If any high-power authentication device is required to install on the left pedestal, the diameter of its conduits should be larger.
- If you want to bury both of the AC power cord and the low voltage cable, the two cables should be in separated conduits to avoid interference.
- If more peripherals are required to connect, you should increase the conduit diameter or bury another conduit for the external cables.
- The network cable must be CAT5e or the network cable has better performance.

3 Install Pedestals

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

Steps

Note

- The device should be installed on the concrete surface or other flat non-flammable surfaces.
- Make sure the device is powered off during installation and other operations.
- The installation tools are put inside the package of the pedestal.
- In order to prevent stainless steel from rusting due to dirt during the installation, it is recommended to tear off the protective film after the device is installed.
- There may be residual glue at the film cutting position, and it is recommended to wipe the glue with WD-40 protective liquid after tearing the film.
- Do not immerse the pedestal in the water. In special circumstances, the immersed height should be no more than 100 mm.

1. Prepare for the installation tools, check the components, and prepare for the installation base.
2. Align the pedestals with the pre-buried expansion bolts, and remove the maintenance door with the key.

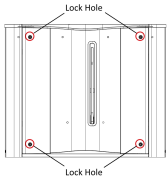


Figure 3-1 Lock Holes

3. Secure the pedestals with expansion bolts and fix the maintenance door to its original position.

4 General Wiring

Note

- When you should maintain or disassemble the high voltage modules, you should remove the entire high voltage modules and maintain it outside the turnstile. You should unplug the

cables that connected to the peripherals before maintenance to avoid destroy of the device.

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

4.1 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.

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

Note

The diagram is for reference only.

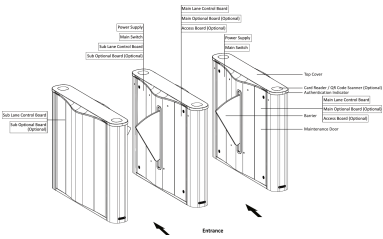


Figure 4-1 Components Diagram 1

The picture displayed below describes the IR adapter and the IR sending/receiving board and their corresponding number on the pedestal.

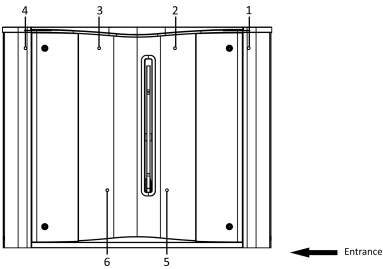


Figure 4-2 IR Module

Note

- If the turnstile contains two lanes, standing at the entrance position, the IR boards on the left pedestal are the IR sending boards. The IR boards on the right pedestal are the IR receiving boards. The IR boards on the left side of the middle pedestal

are the IR receiving boards, while the IR boards on the right side of the middle pedestal are the IR sending boards.

4.2 Serial Port Introduction

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

View serial port position according to the diagram below.

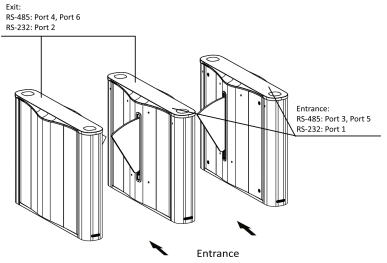
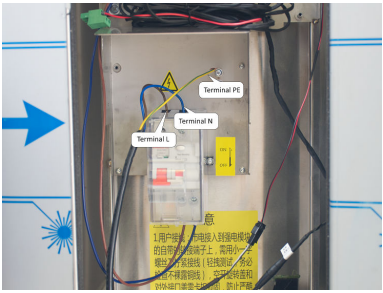


Figure 4-3 Serial Port

Serial Port No.	Communication Method and Board Location	Peripheral Type
Port 1	RS-232A ***Access Board Terminal Description (Optional)***	QR Code Scanner (Entrance)
Port 2	RS-232B ***Sub Optional Board Terminal Description (Optional)***	QR Code Scanner (Exit)
Port 3	RS-485A ***Access Board Terminal Description (Optional)***	QR Code Scanner (Entrance)
Port 4	RS-485B ***Sub Optional Board Terminal Description (Optional)***	QR Code Scanner (Exit)
Port 5	RS-485C ***Access Board Terminal Description (Optional)***	Card Reader (Entrance)
Port 6	RS-485D ***Sub Optional Board Terminal Description (Optional)***	Card Reader (Exit)

4.3 Wiring Electric Supply

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



Note

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

4.4 Wiring

Scan the QR code to view the wiring video.

4.5 Terminal Description

4.5.1 General Wiring

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

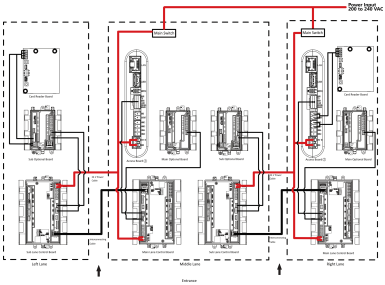


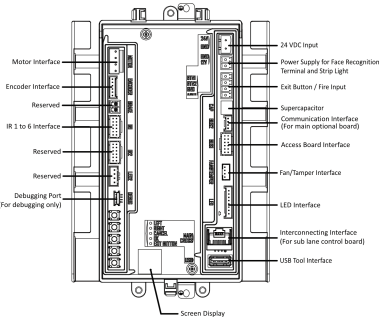
Figure 4-4 General Wiring

Note

- The power cable from power supply to the main lane control board has been connected. You will need to prepare the 14AWG power cable to connect the AC power input to power supply.
- The ① and ② or ③ and ④ refer to the two sides of a same board.
- Barrier opens at the entrance/exit: connect to BTN1/BTN2 and GND.

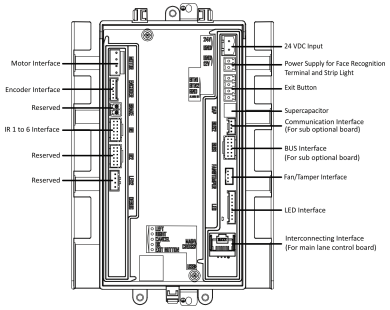
4.5.2 Main Control Board Terminal Description

The picture displayed below is the main control board diagram.



4.5.3 Sub Control Board Terminal Description

The picture displayed below is the sub control board diagram.



4.5.4 Access Board Terminal Description (Optional)

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

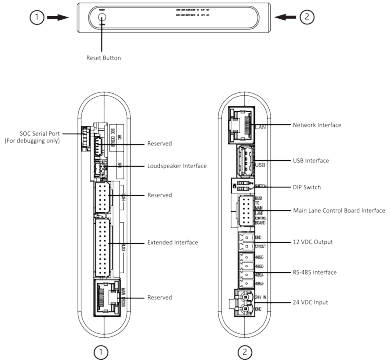


Figure 4-5 Access Board

Note

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

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

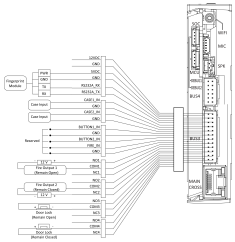


Figure 4-6 Wring Diagram of BUS3 Interface

Note

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

4.5.5 Main Optional Board Terminal Description (Optional)

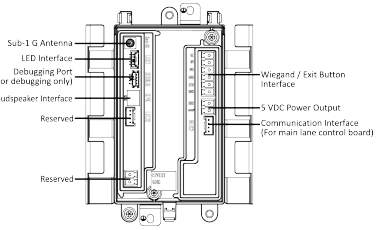


Figure 4-7 Main Optional Board

4.5.6 Sub Optional Board Terminal Description (Optional)

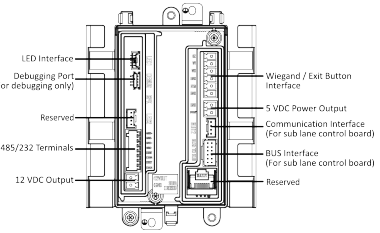


Figure 4-8 Sub Optional Board Terminal

Note

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

4.5.7 Card Reader Board (Optional)

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

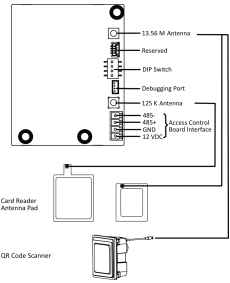


Figure 4-9 Card Reader Board

4.5.8 RS-485 Wiring

The RS-485 interfaces on the access 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

- There are 2 RS-485 interfaces on the access control board for entrance. Refer to ***Access Board Terminal Description (Optional)*** for details.
  There are 2 RS-485 interfaces on the sub extended interface board for exit. Refer to ***Sub Optional Board Terminal Description (Optional)*** for details.
- 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.

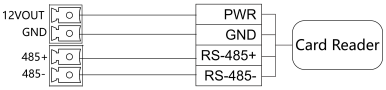


Figure 4-10 Wiring RS-485

4.5.9 RS-232 Wiring

Note

- There is 1 RS-232 interface on the extended interface of access control board, see ***Access Board Terminal Description (Optional)***. The RS-232A corresponds to port 1 on web.
- There is 1 RS-232 interface on the sub optional board, see ***Sub Optional Board Terminal Description (Optional)***. The RS-232B corresponds to port 2 on web.

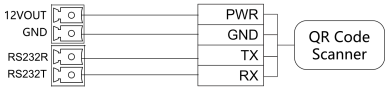


Figure 4-11 RS-232 Wiring

4.5.10 Alarm Input Wiring

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

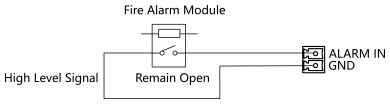


Figure 4-12 Remaining Open

4.5.11 Exit Button Wiring

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

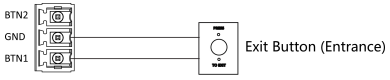


Figure 4-13 Exit Button Wiring (Entrance)

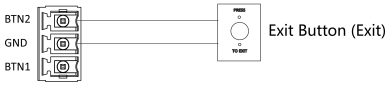


Figure 4-14 Exit Button Wiring (Exit)

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.

5 Device Settings via Button

You can configure the device via button on the lane control board.

5.1 Configuration via Button

Button Description

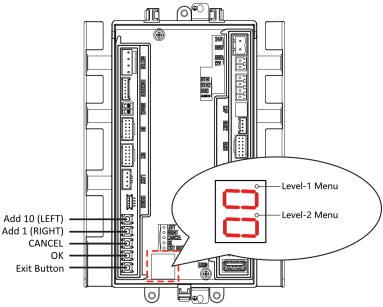


Figure 5-1 Button

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

Here takes setting intrusion duration to 12 s as example:

Figure 5-2 Procedure

Steps:

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

Note

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

5.2 Keyfob Pairing

Pair keyfob via button or DIP switch.

5.2.1 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 ***Button Configuration Description***.
- For details about the keyfob operation instructions, see the keyfob's user manual.

1. Enter the keyfob pairing mode.

1) Enter the configuration mode.

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

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

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

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

3. Exit the keyfob pairing mode.

1) Enter the configuration mode.

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

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

5.2.2 Pair Keyfob via DIP Switch (Optional)

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

Before You Start

Ask our technique supports or sales and purchase the keyfob.

Steps

1. Power off the turnstile.

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

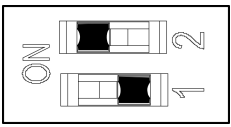


Figure 5-3 Enable Keyfob Paring Mode

3. Power on the turnstile and it will enter the keyfob pairing mode.

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

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

5. Set the No.2 switch to the OFF side.

Note

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

5.3 Initialize Device

Steps

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

Figure 5-4 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.

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 SADP

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

Before You Start

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

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

Steps

1. Run the SADP software and search the online devices.

2. Find and select your device in online device list.

3. Input new password (admin password) and confirm the password.

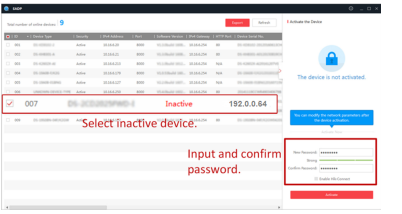
Caution

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

Note

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

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



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

5. Modify IP address of the device.

1) Select the device.

2) Change the device IP address to the same subnet as your computer by either modifying the IP address manually or checking **Enable DHCP**.

3) Input the admin password and click **Modify** to activate your IP address modification.

6.2 Activate Device via iVMS-4200 Client Software

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

Steps

Note

This function should be supported by the device.

1. Enter the Device Management page.

2. Click on the right of **Device Management** and select **Device**.

3. Click **Online Device** to show the online device area.

   The searched online devices are displayed in the list.

4. Check the device status (shown on **Security Level** column) and select an inactive device.

5. Click **Activate** to open the Activation dialog.

6. Create a password in the password field, and confirm the password.

Caution

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

Proper configuration of all passwords and other security settings is the responsibility of the service provider and/or end-user.

Note

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

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

6.3 Activate via Web Browser

You can activate the device via the web browser.

Steps

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

Note

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

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

Caution

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

Note

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

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.

7 Quick Operation via Web Browser

7.1 Time Settings

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

Device Time

Display the device time in real time.

Time Zone

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

Time Synchronization Mode

NTP

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

Manual

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

DST

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

Click **Complete** to save the settings.

8 Operation via Web Browser

8.1 Login

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

Note

Make sure the device is activated. 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.

8.2 Live View

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

Function Descriptions:

Device Component Status

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

Remote Control

/ / /

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

Real-Time Event

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

Person Information

You can view the quantity information of person and card.

Network Status

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

Basic Information

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

Device Capacity

You can view the person, card and event capacity.

8.3 Person Management

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

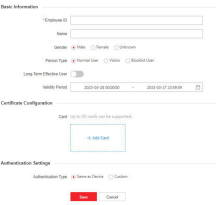


Figure 8-1 Add Person

Add Basic Information

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

Add the person's basic information, including the employee ID, the person's name, and person type.

If you select **Visitor** as the person type, you can set the visit times.

Click **Save** to save the settings.

Set Permission Time

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

Enable **Long-Term Effective User**, or set **Validity Period** and the person can only has the permission within the configured time period according to your actual needs.

Click **Save** to save the settings.

Add Card

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

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

Note

Up to 50 cards can be added.

Click **Save** to save the settings.

Authentication Settings

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

Set **Authentication Type** as **Same as Device** or **Custom**.

Click **Save** to save the settings.

Import/Export Person Data

Export Person Data

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

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

Note

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

Importing Person Data

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

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

Note

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

8.4 Search Event

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

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

The results will be displayed on the right panel.

8.5 Configuration

8.5.1 View Device Information

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

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

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

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

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

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

8.5.2 Set Time

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

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

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.

8.5.3 Set DST

Steps

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

8.5.4 Change Administrator's Password

Steps

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

Caution

The password strength of the device can be automatically checked. We highly recommend you change the password of

your own choosing (using a minimum of 8 characters, including at least three kinds of following categories: upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you change your password regularly, especially in the high security system, changing the password monthly or weekly can better protect your product.

Proper configuration of all passwords and other security settings is the responsibility of the service provider and/or end-user.

8.5.5 Online Users

The information of users logging into the device is shown.

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

8.5.6 View Device Arming/Disarming Information

View device arming type and arming IP address.

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

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

8.5.7 Network Settings

Set Basic Network Parameters

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

You can view the mac address and MTU.

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

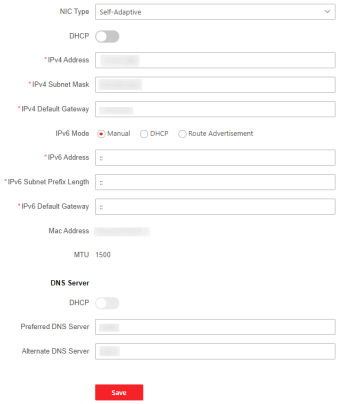


Figure 8-2 Set TCP/IP

NIC Type

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

DHCP

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

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

DNS Server

Note

Only when DHCP is enabled can DNS server be set.

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

IPv6 Mode

Manual

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

DHCP

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

Route Advertisement

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

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

Set Port Parameters

Set the HTTP, HTTPS, HTTP Listening parameters.

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

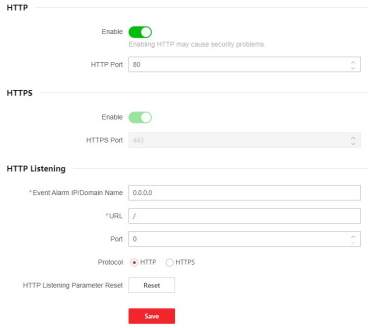


Figure 8-3 Set Port

HTTP

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

HTTPS

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

HTTP Listening

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

Note

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

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

Set Network Penetration Service

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

Steps

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

Set OTAP

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

Steps

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

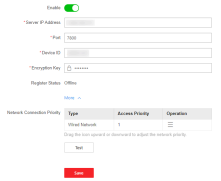


Figure 8-4 Set OTAP

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

Platform Access

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

Steps

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

   Note

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

2. Click the slider to enable the function.
3. **Optional:** Check the checkbox of **Custom**, and you can set the server address by yourself.
4. View the register status, and click **Refresh** to view the latest status.
5. Click **Save** to enable the settings.
6. View the account binding status, and click **Refresh** to view the latest status.
7. Bind the account.
   - Binding via Code: Click **View** to view device QR code. Scan the QR code to bind the account.
   - Manual Binding: View account verification code by the path: Phone APP-My-Account. Enter the **User Token**, and click **Bind** to bind the account.

8.5.8 Set Audio Parameters

Set the audio parameters.

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

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

Click **Save** to save the settings.

8.5.9 Event Linkage

Set linked actions for events.

Steps

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

   Buzzer Linkage

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

   Door Linkage

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

   Linked Alarm Output

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

Linkage Audio Prompt

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

If you choose **TTS**, you need to select the play mode, set language and enter the prompt content.

If you choose **Audio File**, you need to select the play mode, and select an available audio file from the drop-down list or click **General Linkage Settings** to add a new audio file.

4. Click **Save** to save the settings.

8.5.10 Access Control Settings

Set Authentication Parameters

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

Note

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

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

Terminal

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

Terminal Type/Terminal Model

Get terminal description. They are read-only.

Enable Authentication Device

Enable the authentication function.

Authentication

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

Authentication Interval

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

Alarm of Max. Failed Attempts

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

Max. Authentication Failed Attempts

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

Communication with Controller Every

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

Note

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

Set Door Parameters

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

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

Door No.

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

Door Name

You can create a name for the door.

Open Duration

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

Note

The open duration ranges from 5 s to 60 s.

Exit Button Type

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

Door Remain Open Duration with First Person

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

Serial Port Settings

Set serial port parameters.

Steps

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

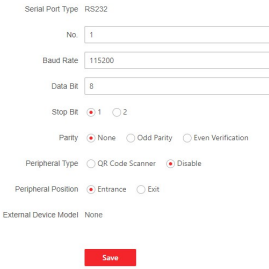


Figure 8-5 Serial Port Configuration

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

Baud Rate

Configure data transfer rate.

Data Bit

Configure the number of bits to send data.

Stop Bit

Select the end point for one frame of data.

Parity

Select the serial communication error detection principle. You can choose to detect that the number of 1 of the data

bits and check digits is odd or even, or that there is no check digit.

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

Set Wiegand Parameters

You can set the Wiegand transmission direction.

Steps

Note

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

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

Note

Input: the device can connect a Wiegand card reader.

5. Select **Wiegand Mode**.
6. Click **Save** to save the settings.

Note

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

Set Terminal Parameters

Set the working mode and remote verification.

Steps

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

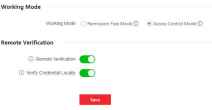


Figure 8-6 Terminal Parameters

2. Set the device working mode.

Permission Free Mode

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

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

Access Control Mode

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

3. Set remote verification.

1) Enable **Remote Verification**.

Note

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

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

Note

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

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

8.5.11 Turnstile

Basic Parameters

Set turnstile basic parameters.

Steps

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

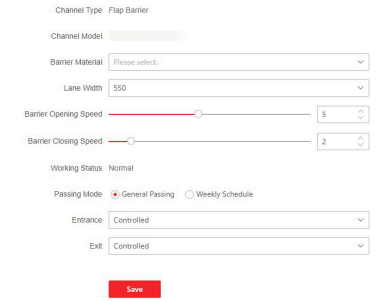


Figure 8-7 Basic Settings

2. View the **Channel Type**, **Channel Model** and **Working Status**.

3. Set **Barrier Material**, **Lane Width**, **Lane Height**, **Barrier Opening Speed** and **Barrier 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. Click **Save**.

keyfob

Set keyfob parameters.

Steps

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

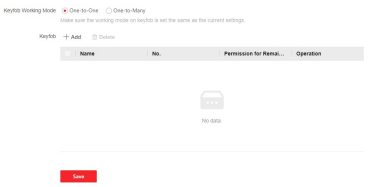


Figure 8-8 keyfob

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

3. 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.

4. Optional: Select a keyfob and click **Delete** to delete the keyfob.

5. Click **Save**.

IR Detector

Set IR detector.

Steps

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

2. Set the entrance and exit inductive mode as **Single Trigger** or **Trigger Simultaneously**.

3. Set custom IR detector mode.

Enable IR Emergency Mode

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

Enable Custom Anti-pinch for Door Closing

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

It is recommended to enable custom anti-pinch for door closing function for the recommended detector.

4. Click **Save**.

People Counting

Set people counting.

Steps

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

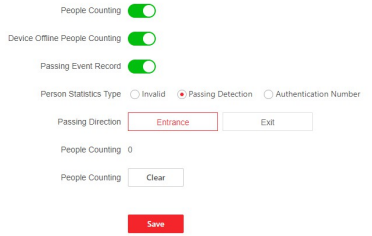


Figure 8-9 People Counting

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

   Disable people counting.

   Passing Detection

   The number of all passing people.

   Authentication Number

   The number of passing people verified through card swiping, face recognition, etc.
5. Select passing direction and view people counting results of entrance or exit.
6. **Optional:** Click **Clear** to clear all the people counting information.

Other Settings

Set other parameters.

Steps

1. Click **Configuration → 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.

   Do Not Open Barrier When Lane is Not Clear

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

   Light Board Brightness

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

   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.

Intrusion Duration

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

Overstaying Duration

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

IR Obstructed Duration

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

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 barrier open duration, the barrier will close automatically.

Control Mode

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

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

Fire Input Type

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

3. Click **Save**.

8.5.12 Card Settings

Set Card Security

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

Set the parameters and click **Save**.

Enable NFC Card

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

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

8.5.13 Set Privacy Parameters

Set the event storage type.

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

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

8.5.14 Customize Audio Content

Customize the output audio content when authentication succeeded and failed.

Steps

1. Click **Configuration → Preference → Prompt Schedule** .

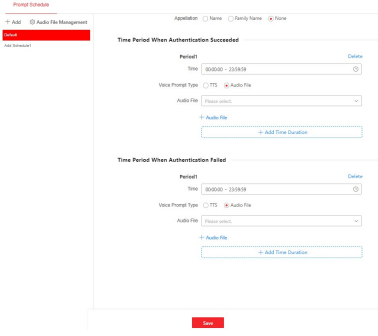


Figure 8-10 Customize Audio Content

2. Enable the function.

3. Set the appellation.

4. Set the time period when authentication succeeded.

1) Click **Add Time Duration**.

2) Set the time duration.

Note

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

3) Select the voice prompt type.

4) Enter the audio prompt content or select audio file.

Note

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

5) **Optional:** Repeat substep 1 to 3.

6) **Optional:** Click to delete the configured time duration.

5. Set the time duration when authentication failed.

1) Click **Add Time Duration**.

2) Set the time duration.

Note

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

3) Select the voice prompt type.

4) Enter the audio prompt content or select audio file.

Note

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

5) **Optional:** Repeat substep 1 to 3.

6) **Optional:** Click to delete the configured time duration.

6. Click **Save**.

8.5.15 Upgrade and Maintenance

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

Reboot Device

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

Click **Restart** to reboot the device.

Upgrade

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

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

If the device has been connected to Hik-Connect and network, when there is a new installation package in Hik-Connect, you can click **Upgrade** after Online Update to upgrade the device system.

Note

Do not power off during the upgrading.

Restore Parameters

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

Restore All

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

Restore

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

Import and Export Parameters

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

Export

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

Note

You can import the exported device parameters to another device.

Import

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

8.5.16 Device Debugging

You can set device debugging parameters.

Steps

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

Enable SSH

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

Motor Study & Self-Test

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

Select the lane and click **Start**, the encoder will test the operation status automatically.

Print Log

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

Capture Network Packet

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

Debug Command Management

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

View the received information in the execution result box.

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

8.5.17 Component Status

You can view the main lane and sub lane status.

Main Lane Status

Device Component

You can view the status of the access control board and lane control board.

Peripheral

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

Temperature

You can view the pedestal temperature.

Movement

You can view the working status of motor encoder.

Sub Lane Status

Device Component

You can view the status of the lane control board .

Peripheral

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

Movement

You can view the working status of motor encoder.

Others

Passing Mode

You can view the entrance and exit mode.

IR Detector Status

You can view the status of each pair of the IR beam sensors.

Input and Output Status

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

Other Status

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

8.5.18 Log Query

You can search and view the device logs.

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

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

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

8.5.19 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 Install Self-signed Certificate

Steps

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

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

   The certificate will be saved automatically.
6. Download the certificate and save it to an asking file in the local computer.
7. Send the asking file to a certification authority for signature.
8. Import the signed certificate.

   1) Select a certificate type in the **Import Passwords** area, and select a certificate from the local, and click **Install**.

   2) Select a certificate type in the **Import Communication Certificate** area, and select a certificate from the local, and click **Install**.

Install Other Authorized Certificate

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

Steps

1. Go to **Maintenance and Security → Security → Certificate Management** .
2. In the **Import Passwords** and **Import Communication Certificate** areas, select certificate type and upload certificate.
3. Click **Install**.

Install CA Certificate

Before You Start

Prepare a CA certificate in advance.

Steps

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

Note

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

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

9 Configure the Device via the Mobile Browser

9.1 Login

You can login via mobile browser.

Note

Make sure the device is activated.

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

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

9.2 Overview

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

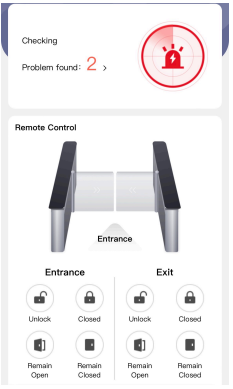


Figure 9-1 Status and Remote Control

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

You can remotely control barrier by tap the icons.

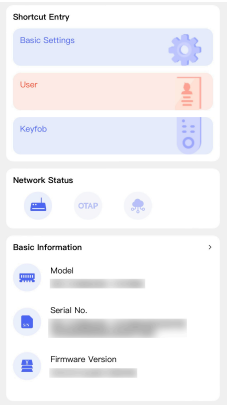


Figure 9-2 Shortcut Entry and Basic Information

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

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

9.3 Configuration

9.3.1 Turnstile Basic Parameters

You can set the basic parameters of the turnstile.

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

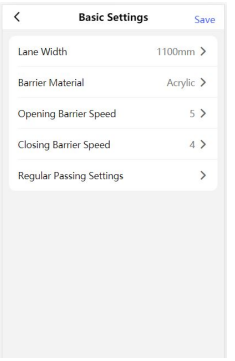


Figure 9-3 Turnstile Basic Parameters

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

Set the regular passing mode for the entrance and exit.

Tap **Save**.

9.3.2 Person Management

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

Steps

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

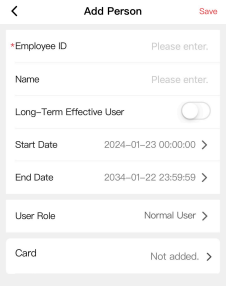


Figure 9-4 Add Person

2. Add person.

   1) Tap**+**.

   2) Set the following parameters.

   Employee ID

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

   Name

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

   Long-Term Effective User

   Set the user permission as long-term effective.

   Start Date/End Date

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

   User Role

   Select your user role.

   Card

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

   3) Tap **Save**.

3. Tap the user that needs to be edited in the user list to edit the information.

4. You can search the user by entering the employee ID in the search bar.

9.3.3 Keyfob Settings

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

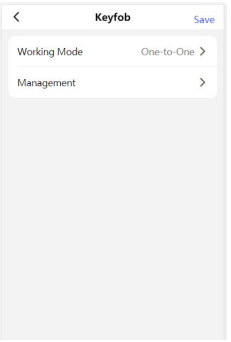


Figure 9-5 Keyfob Settings

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.

9.3.4 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**.

9.3.5 Time Settings

View current time and set the time zone.

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

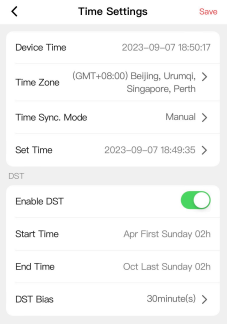


Figure 9-6 Time Settings

Device Time

You can view current time.

Time Zone

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

Time Sync. Mode

Manual

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

NTP

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

DST

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

Tap **Save**.

9.3.6 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**.

9.3.7 Network

Wired Network

Set wired network.

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

NIC Type

Select a NIC type from the drop-down list.

DHCP

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

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

MAC Address and MTU

You can view the default MAC address and MTU.

IPv6 Mode

Route Advertisement

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

Note

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

Manual

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

DHCP

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

DNS Server

Note

Only when DHCP is enabled can DNS server be set.

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

Set Port Parameters

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

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

HTTP

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

HTTPS

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

Platform Access

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

Steps

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

   Note

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

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

   Note

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

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

Set OTAP Parameters

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

Steps

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

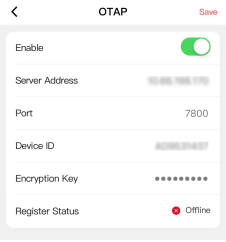


Figure 9-7 OTAP

2. Slide to **Enable**.

3. Set server address, port, device ID and encryption key.

4. Tap **Save**.

5. Refresh the page or reboot the device, and you can view the **Register Status**. Tap **Test** to test the register status.

9.3.8 Event Search

Tap → **Event Search** .

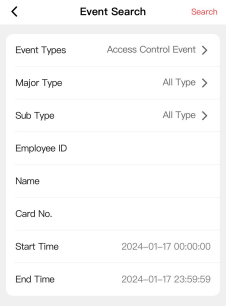


Figure 9-8 Event Search

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

Note

It supports searching for names within 128 digits.

The search results will be displayed in the list.

9.3.9 Set Audio

Set the device volume.

Steps

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

2. You can adjust the device output volume according to your actual needs.

3. You can enable voice prompt according to your actual needs.

9.3.10 Access Control Settings

Set Authentication Parameters

Set authentication parameters.

Steps

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

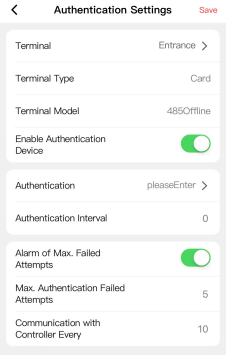


Figure 9-9 Authentication Settings

2. Tap **Save** after configuration.

Terminal

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

Terminal Type/Model

You can view the current terminal type and model.

Enable Authentication Device

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

Authentication

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

Authentication Interval

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

Note

The configuration range is 0 to 255 s.

Alarm of Max. Failed Attempts

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

Note

The configuration range is 1 to 10.

Communication with Controller Every

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

Set Door Parameters

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

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

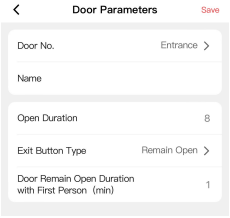


Figure 9-10 Door Parameters

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

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

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

Terminal Settings

Set the working mode.

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

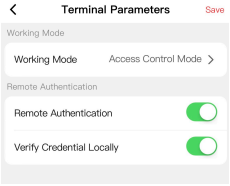


Figure 9-11 Terminal Parameters

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** .

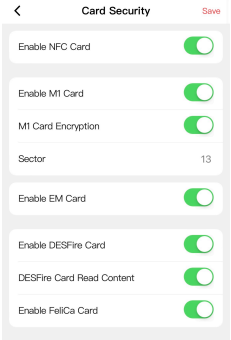


Figure 9-12 Card Security

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.

9.3.11 Upgrade and Maintenance

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

Restart Device

Tap → **Restart** .

Tap **Restart** to restart the device.

Upgrade

Tap → **Upgrade** .

Tap **Upgrade** to upgrade the device.

Note

Do not power off during the upgrading.

Restore Parameters

Tap → **Default** .

Restore to Default Settings

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

Restore to Factory Settings

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

Log Export

Tap → **Log Export** .

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

9.3.12 View Open Source Software License on Mobile Web

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

9.3.13 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.

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

A. DIP Switch

A.1 DIP Switch Description

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

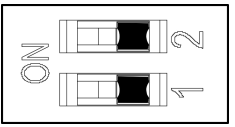
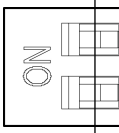
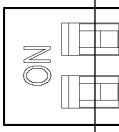
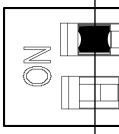


Figure A-1 DIP Switch

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

A.2 DIP Switch Corresponded Functions

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

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

B. Button Configuration Description

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

Level-1 Configuration No.	Description	Level-1 Configuration No. and Functions	Notes
2	keyfob Pairing Mode	1-Normal Mode 2-Pairing Mode  **Note** By default, 1 will be displayed on the display screen.	
3	Passing Mode	1-Both sides under control  **Note** By default, 1 will be displayed on the display screen. 2-Entrance under control; exit prohibited 3-Entrance under control; exit on inductive mode 4-Both sides on inductive mode 5-Entrance on inductive mode; exit under control 6-Entrance on inductive mode; exit prohibited 7-Both sides prohibited 8-Entrance prohibited; exit under control 9-Entrance prohibited; exit on inductive mode 10-Entrance under control; exit remaining open 11-Entrance under control;	

Level-1 Configuration No.	Description	Level-1 Configuration No. and Functions	Notes
		exit on free mode 12-Entrance on inductive mode; exit remaining open 13-Entrance on inductive mode; exit on free mode 14-Entrance prohibited; exit remaining open 15-Entrance prohibited; exit on free mode 16-Entrance remaining open; exit under control 17-Entrance remaining open; exit on inductive mode 18-Entrance remaining open; exit remaining open 19-Entrance remaining open; exit on free mode 20-Entrance remaining open; exit prohibited 21-Entrance on free mode; exit under control 22-Entrance on free mode; exit on inductive mode 23-Entrance on free mode; exit remaining open 24-Entrance on free mode; exit on free mode 25-Entrance on free mode; exit prohibited	
4	Memory Mode	1-Disable 2-Enable **Note** By default, 2 will be displayed on	

Level-1 Configuration No.	Description	Level-1 Configuration No. and Functions	Notes
		the display screen.	
5	keyfob Remote Control	1-one to one 2-one to multiple **Note** By default, 1 will be displayed on the display screen.	
6	Barrier Opening Speed	1-1, 2-2, ...10-10 **Note** By default, 5 will be displayed on the display screen.	
7	Barrier Closing Speed	1-1, 2-2, ...10-10 **Note** By default, 5 will be displayed on the display screen.	
8	Card Reading on the Alarm Area	1-Do not open 2-Open **Note** By default, 2 will be displayed on the display screen.	
9	Enter Duration	5-5s, 6-6s, 7-7s, ..., 60-60s **Note** By default, 5 will be displayed on the display screen.	
10	Exit Duration	5-5s, 6-6s, 7-7s, ..., 60-60s **Note** By default, 5 will be displayed on	

Level-1 Configuration No.	Description	Level-1 Configuration No. and Functions	Notes
		the display screen.	
11	IR Sensing Duration	0-0s, 1-1s, 2-2s,..., 25-25s **Note** By default, 0 will be displayed on the display screen.	
12	Intrusion Duration	0-0s, 1-1s, 2-2s,..., 20-20s **Note** By default, 0 will be displayed on the display screen.	
13	Overstay Duration	0-0s, 1-1s, 2-2s,..., 20-20s **Note** By default, 0 will be displayed on the display screen.	
14	Delay Time for Barrier Closing	0-0s, 1-1s, 2-2s, 3-3s, 4-4s, 5-5s **Note** By default, 0 will be displayed on the display screen.	
15	Control Mode	1-Button Configuration 2-DIP Switch on Access Control Board **Note** By default, 1 will be displayed on the display screen.	
17	IR Configuration for Closing in Advance	1-1, 2-2, ..., N-N	

Level-1 Configuration No.	Description	Level-1 Configuration No. and Functions	Notes
		Note By default, 1 will be displayed on the display screen.	
18	Lane Number	1-Dual Lanes 2-Single Lane **Note** By default, 1 will be displayed on the display screen.	Unable to change
19	Motor Rotation	1-Clockwise 2-Anticlockwise **Note** By default, 1 will be displayed on the display screen.	Unable to change
21	Volume	1-0, 2-1, 3-2, 4-3, 5-4 **Note** By default, 2 will be displayed on the display screen.	The device will be muted when set to "1".
22	Authenticated Passing	1-Disable 2-Enable **Note** By default, 1 will be displayed on the display screen.	Unable to change
23	Invalid Card No.	1-Disable 2-Enable **Note** By default, 1 will be displayed on the display screen.	Unable to change

Level-1 Configuration No.	Description	Level-1 Configuration No. and Functions	Notes
24	Fingerprint Unmatched	1-Disable 2-Enable  By default, 1 will be displayed on the display screen.	Unable to change
25	Climbing over Barrier	1-Disable 2-Enable  By default, 1 will be displayed on the display screen.	
26	Reverse Passing	1-Disable 2-Enable  By default, 1 will be displayed on the display screen.	
27	Exceeding Passing Duration	1-Disable 2-Enable  By default, 1 will be displayed on the display screen.	
28	Intrusion Alarm	1-Disable 2-Enable  By default, 1 will be displayed on the display screen.	
29	Forced Passing	1-Disable 2-Enable  By default, 1 will be displayed on	Unable to change

Level-1 Configuration No.	Description	Level-1 Configuration No. and Functions	Notes
		the display screen.	
30	Tailgating Alarm	1-Disable 2-Enable **Note** By default, 1 will be displayed on the display screen.	
31	Unauthorized Passing	1-Disable 2-Enable **Note** By default, 1 will be displayed on the display screen.	Unable to change
32	Exceeding Authentication Duration	1-Disable 2-Enable **Note** By default, 1 will be displayed on the display screen.	Unable to change
33	Failed Authentication	1-Disable 2-Enable **Note** By default, 1 will be displayed on the display screen.	Unable to change
34	Expired Credential	1-Disable 2-Enable **Note** By default, 1 will be displayed on the display screen.	Unable to change
35	Overstaying Alarm	1-Disable 2-Enable	

Level-1 Configuration No.	Description	Level-1 Configuration No. and Functions	Notes
		Note By default, 1 will be displayed on the display screen.	
36	Barrier Material	1-Acrylic	
37	Barrier Length	1-550 2-600 **Note** By default, 2 will be displayed on the display screen.	
38	Motor Inspection	1-Disable 2-Enable on Main Lane 3-Enable on Sub Lane **Note** By default, 1 will be displayed on the display screen.	
39	Brightness of Light	0-0, 1-1, 2-2, … , 10-10 **Note** By default, 3 will be displayed on the display screen.	The higher the value is, the brighter the light will be.
40	Self-check Voice Prompt	1-Disable 2-Enable **Note** By default, 2 will be displayed on the display screen.	Control the device to play the voice prompt of self-check or not.
42	IR Detector Quantity	4-4, 6-6, 8-8, **Note** By default, 4 will be displayed on	Unable to change

Level-1 Configuration No.	Description	Level-1 Configuration No. and Functions	Notes
		the display screen.	
99	Restore to Default	1- Default 2- Start **Note** By default, 1 will be displayed on the display screen.	The device will reboot.

C. 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 and Audible
Barrier Obstructed	None

D. Table of Audio Index Related Content

Note

- If the device is not equipped with access control board, the loudspeaker shall be connected to the main optional board.
- If the device is equipped with access control board, the loudspeaker shall be connected to the access control board. You can set custom broadcasting context via web.

Content
Climbing over the barrier.
Reverse passing.
Passing timeout.
Intrusion.
Tailgating.
Overstay.

E. Error Code Description

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

Error Reason	Code	Error Reason	Code
First IR Beam Triggered	01	Second IR Beam Triggered	02
Third IR Beam Triggered	03	Fourth IR Beam Triggered	04
Fifth IR Beam Triggered	05	Sixth IR Beam Triggered	06
Optional Board Offline (If the board is not installed, the error code of "49" will appear but the device functions normally)	59	Interconnecting Exception	53
Barrier Obstruction	55	Encoder Offline	57
Motor Offline	58	Motor Drive Fault	64
Motor Fault	66	Motor Over-current	68
Motor Under-voltage	69	Motor Over-voltage	70
Motor Barrier Opening Timeout	74	Motor Encoder Exception	76