

DS-K3B961TX Series Swing Barrier

User Manual

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FCC Information

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC compliance: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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.

EU Conformity Statement



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



2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info



2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see:www.recyclethis.info

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.

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

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

♠ Cautions:

- The equipment shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the equipment.
- Ensure correct wiring of the terminals for connection to an AC mains supply.
- The equipment has been designed, when required, modified for connection to an IT power distribution system.
- + identifies the positive terminal(s) of equipment which is used with, or generates direct current.
 - + identifies the negative terminal(s) of equipment which is used with, or generates direct current.
- No naked flame sources, such as lighted candles, should be placed on the equipment.
- This equipment is suitable for mounting on concrete or other non-combustible surface only.
- Install the equipment according to the instructions in this manual.
- To prevent injury, this equipment must be securely attached to the floor/wall in accordance with the installation instructions.
- 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.

Available Models

Product Name	Model	Description
Swing Barrier	DS-K3B961TX-L/E	Left Pedestal
	DS-K3B961TX-M/E	Middle Pedestal
	DS-K3B961TX-R/E	Right Pedestal

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Chapter 1 Overview

1.1 Introduction

The flap barrier with two barriers and 24 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

- 32-bit high-speed processor
- · IP address conflict detection
- · Remote control and management
- Online/offline operation
- TCP/IP network communication
 The communication data is specially encrypted to relieve the concern of privacy leak
- · Person authentication
- · Permissions validation and anti-tailgating
- Control mode, sensing mode, remaining open/closed mode and free passing mode selectable Bidirectional (Entering/Exiting) lane
 - The barrier opening and closing speed can be configured according to the visitor flow
- Single or multiple IR detector triggering
- Opens/Closes barrier according to the schedule template
- · Cross controller anti-passback
- 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. It can bear the force of up to 120 Nm
- Self-detection, Self-diagnostics, and automatic alarm
- Audible and visual alarm will be triggered when detecting intrusion, tailgating, reverse passing, and climbing over barrier
- 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
- Up to 10,0000 faces, up to 50,0000 cards and up to 100,000 events except can be added

- · Custom broadcasting content
- LED indicates the entrance/exit and passing status
- White indicators for card and QR code authentication;
 Red and green arrow indicators;
 Adjustable brightness and color of entrance light and side light
- · IR emergency mode and Custom Anti-pinch for Door Closing

1.3 Light Description

Side Light

The side light indicates different status of the lane, including inductive, prohibited and authenticated passing.



- When the device detects people within 1.5 m, the side light will be blinking.
- Only the right side light indicates the lane status.

Entrance Light

Before Passing

- · Light stays green: authenticated passing
- · Light flashes green: free passing
- · Light stays red: passing prohibited
- · Light flashes red: authentication failed or exception alarm

During Passing

- The entrance light will be blinking in your heading direction when authentication succeeds, and will resume when you pass through.
- You can set colors for the entrance light to indicate different status, including standby, authentication completed, authentication failed and alarm.

Barrier Light

The barrier light stays white by default. You can set the barrier light color at your needs. The barrier light will not change color according to the lane status or authentication results.

Card Light

The card light will stay white when the device detects people approaching until people pass through.

Arrow Light

- The arrow light stays off when the device is on standby mode and the light will be on when authentication is completed.
- Green light for authenticated passing and red light for failed authentication.
- The arrow light will be off after pass-through.
- The light will stay red in the sign of X when passing is prohibited or alarm sounds.

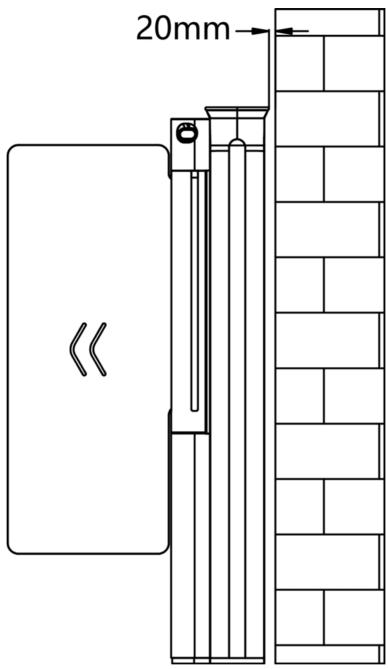
Chapter 2 System Wiring

The preparation before installation and general wiring.

Steps



- 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.

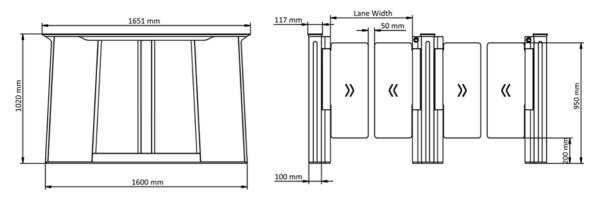


Figure 2-1 Dimension

1. Draw a central line on the installation surface of the left or right pedestal.



If the installation area is near the wall, make sure the central line is at least 78.5 mm away from the wall, or you cannot open the pedestal's top panel.

2. Draw other parallel lines for installing the other pedestals.

Note

The distance between the nearest two line is L + 242 mm. L represents the lane width.

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

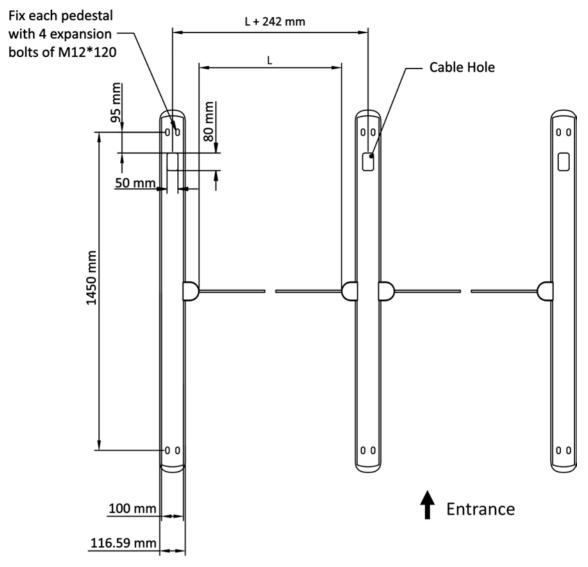


Figure 2-2 Hole Position Diagram

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

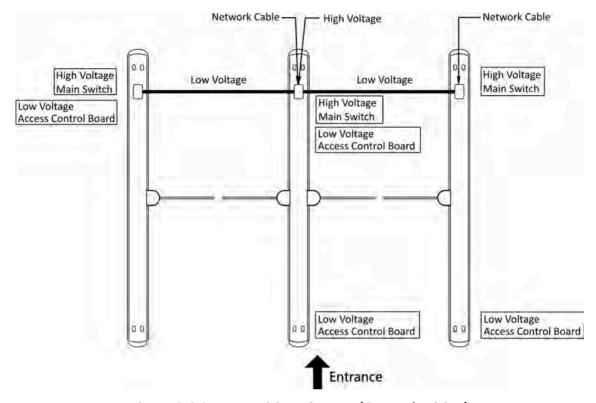


Figure 2-3 System Wiring Diagram (General Wiring)

Note

- The supplied interconnecting cable length is 5.5 m.
- 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.

Chapter 3 Installation

- 1. Before installation, you should disassemble the pedestal with the key.
- 2. Keep the disassembled components and make sure the accessories are intact.
- 3. Prepare for system wiring and installation. For details, see **System Wiring**.
- 4. Fix the pedestal to the installation spot with screws.

Scan the QR Code to view the installation guide video.



Chapter 4 General Wiring



- 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.

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 whole system's power supply.

Note

The voltage fluctuation of the electric supply is between 100 VAC and 240 VAC, 50 to 60 Hz.

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

i Note

The diagram is for reference only.

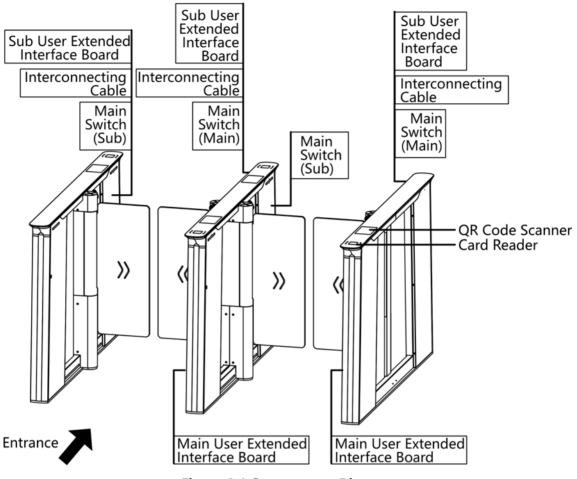
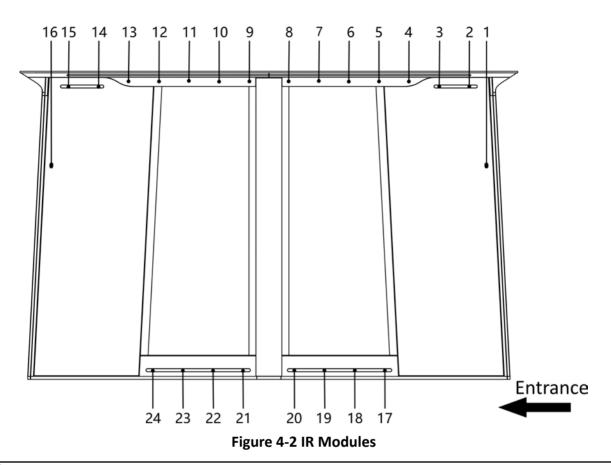


Figure 4-1 Components Diagram

i Note

For details about wiring arrangement, refers to the actual device.

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



i Note

- For details about wiring arrangement, refers to the actual device.
- If the turnstile contains two lanes, standing at the entrance position, the IR modules on the left pedestal are the IR sending modules. The IR modules on the right pedestal are the IR receiving modules. The IR modules on the left side of the middle pedestal are the IR receiving modules, while the IR modules on the right side of the middle pedestal are the IR sending modules.
- Safety Instructions can be viewed on the middle panel inside the pedestal.

4.2 Wiring

Scan the QR code to view the wiring guide video.



4.3 Terminal Description

The lane controller contains main lane controller and sub lane controller, which controls the IR beams, motor, and other components' work.

4.3.1 Main Lane Control Board Terminal Description

The main lane control board contains debugging port, access control board communication interface, power interface, supercapacitor, IR adapter and ArrowBoard interface, encoder interface, power supply for motor, brake interface, user extended interface board BUS, and interconnecting interface.

The picture displayed below is the main control board diagram.

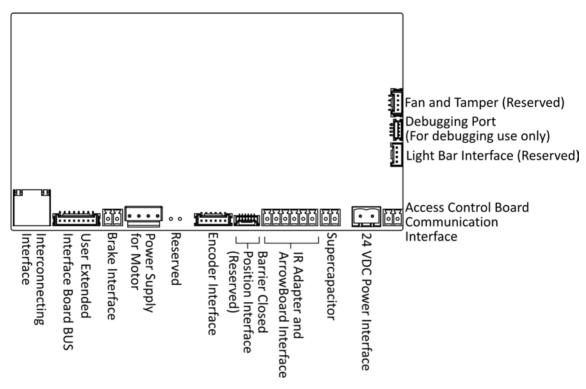


Figure 4-3 Main Lane Control Board Terminal

4.3.2 Sub Lane Control Board Terminal Description

The sub lane control board contains debugging port, access control board communication interface, power interface, supercapacitor, IR adapter and ArrowBoard interface, encoder interface, power supply for motor, brake interface, sub user extended interface board BUS and interconnecting interface.

The picture displayed below is the sub control board diagram.

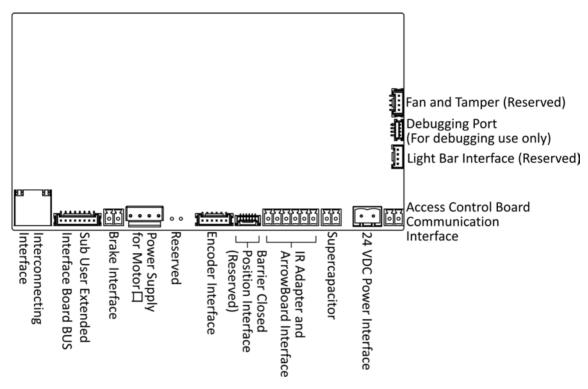


Figure 4-4 Sub Lane Control Board Terminal

4.3.3 Main Access Control Board Terminal Description

The main access control board contains screen adapter interface, sensor interface, loudspeaker interface, IR light interface, user extended interface board and lane control board communication interface, antenna interface, network switch interface, sub access control board interface, power interface, card reader board interface, TF card slot, initialization button, debugging port and USB flash drive interface.

The picture displayed below is the main access control board diagram.

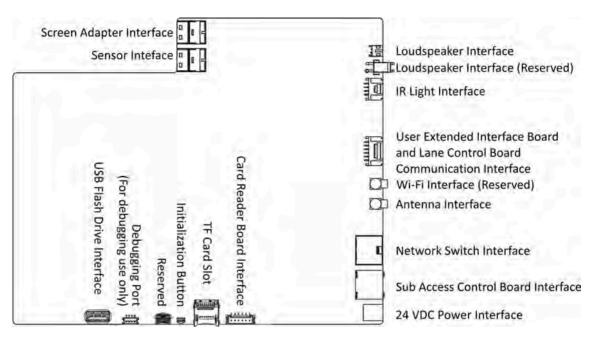


Figure 4-5 Main Access Control Board Terminal

4.3.4 Sub Access Control Board Terminal Description

The sub access control board contains screen adapter interface, sensor interface, loudspeaker interface, IR light interface, user extended interface board and lane control board communication interface, sub access control board interface, power interface, card reader board interface, TF card slot, initialization button, debugging port and USB flash drive interface.

The picture displayed below is the sub access control board diagram.

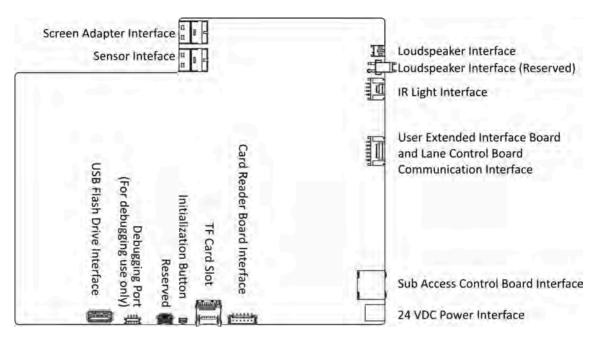


Figure 4-6 Sub Access Control Board Terminal

4.3.5 Main User Extended Interface Board

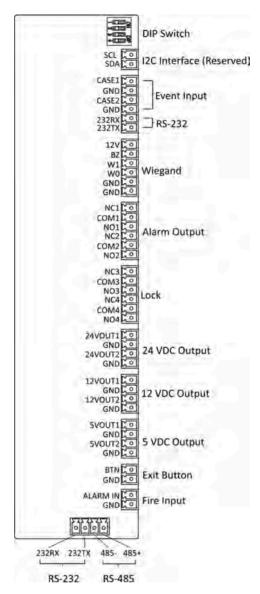


Figure 4-7 Main User Extended Interface

Main User Extended Interface Description		
I2C Interface	SCL	Reserved
	SDA	
Event Input	CASE1	Event Alarm Input 1
	CASE2	Event Alarm Input 2

Main User Extended Interface Description		
	GND	Grounding
RS-232 Interface	232RX	Connect to Card Reader RS- 232RX
	232TX	Connect to Card Reader RS- 232TX
RS-485	485-	Connect to Card Reader RS485-
	485+	Connect to Card Reader RS485+
Wiegand Card Reader	12 V	12 VDC Power Input
	BZ	Card Reader Buzzer Control Output
	W0	Wiegand Head Read Data Input Data0
	W1	Wiegand Head Read Data Input Data1
	GND	Grounding
Alarm Output	NO/NC1	Alarm Output Relay 1 (Dry
	COM1	Contact)
	NO/NC2	Alarm Output Relay 2 (Dry
	COM2	Contact)
Lock	NO/NC3	Door Relay Output (Dry
	СОМЗ	Contact)
	NO/NC4	
	COM4	
Power Output 1	24VOUT1	24 VDC Power Output 1
	24VOUT2	24 VDC Power Output 2
	GND	Grounding
Power Output 2	12VOUT1	12 VDC Power Output 1
	12VOUT2	12 VDC Power Output 2
	GND	Grounding

Main User Extended Interface Description		
Power Output 3	5VOUT1	5 VDC Power Output 1
	5VOUT1	5 VDC Power Output 2
	GND	Grounding
Exit Button	BTN	Door Signal Input
	GND	Grounding
Fire Input	ALARM IN	Fire Alarm Input
	GND	Grounding

4.3.6 Sub User Extended Interface Board

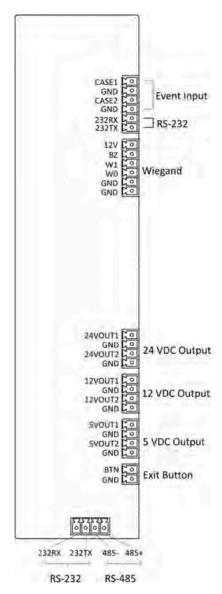


Figure 4-8 Sub User Extended Interface

Main User Extended Interface Description		
Event Input	CASE1	Event Alarm Input 1
	CASE2	Event Alarm Input 2
	GND	Grounding

Main User Extended Interface Description		
RS-232 Interface	232RX	Connect to Card Reader RS- 232RX
	232TX	Connect to Card Reader RS- 232TX
RS-485	485-	Connect to Card Reader RS485-
	485+	Connect to Card Reader RS485+
Wiegand Card Reader	12 V	12 VDC Power Input
	BZ	Card Reader Buzzer Control Output
	W0	Wiegand Head Read Data Input Data0
	W1	Wiegand Head Read Data Input Data1
	GND	Grounding
Power Output 1	24VOUT1	24 VDC Power Output 1
	24VOUT2	24 VDC Power Output 2
	GND	Grounding
Power Output 2	12VOUT1	12 VDC Power Output 1
	12VOUT2	12 VDC Power Output 2
	GND	Grounding
Power Output 3	5VOUT1	5 VDC Power Output 1
	5VOUT1	5 VDC Power Output 2
	GND	Grounding
Exit Button	BTN	Door Signal Input
	GND	Grounding

4.3.7 User Core Board Terminal Description

The user core board terminal contains network interface, BUS, USB card reader interface, access control board communication interface, card receiver and RS-485 card reader interface, power interface, programming interface and debugging port.

The picture displayed below is the user core board diagram.

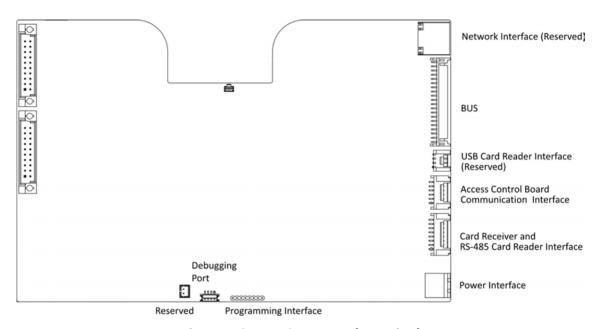


Figure 4-9 User Core Board Terminal

4.3.8 RS-485 Wiring

The main and sub user extended interface board each has one RS-485 interface.



- If connecting the RS-485 with a card reader, by default, the DIP switch of the card reader is: 1 for entrance, and 4 for exit.
- 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.

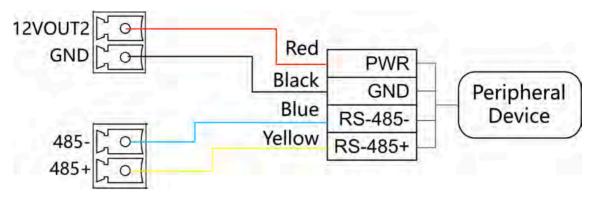


Figure 4-10 RS-485 Wiring

4.3.9 RS-232 Wiring



The main and sub user extended interface board each has two RS-232 interface.

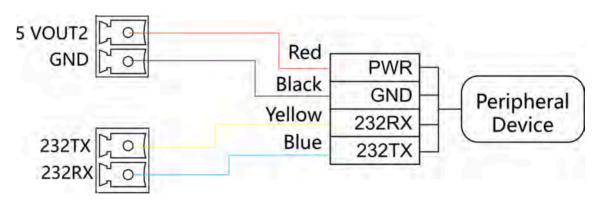
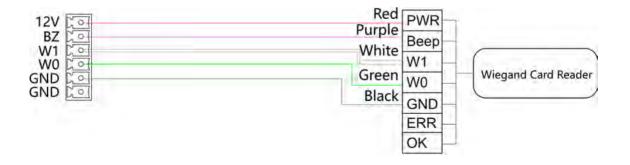


Figure 4-11 RS-232 Wiring

4.3.10 Wiegand Wiring



Note

Connect the OK/ERR/BZ if the access controller should control the LED and buzzer of the Wiegand card reader.

4.3.11 Barrier Control Wiring

According to the barrier control interfaces and the internal relays, the device provides 2 groups of the barrier control signals on the main user extended interface board, including 1 remaining open interface and 1 remaining closed interface.

NO: Remaining Open NC: Remaining Closed

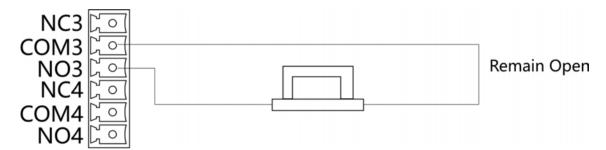


Figure 4-12 Barrier Control Wiring 1

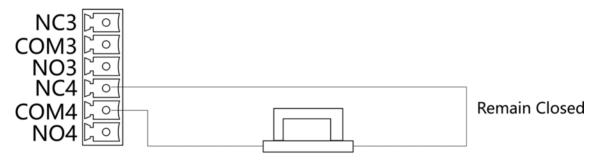


Figure 4-13 Barrier Control Wiring 2

4.3.12 Alarm Output Wiring

On the main user extended interface board, you can wire the alarm output interface.

According to the alarm output interfaces and the internal relays, the device provides 2 groups of the alarm output control signals, including 1 remaining open interface and 1 remaining closed interface.

NO: Remaining Open NC: Remaining Closed

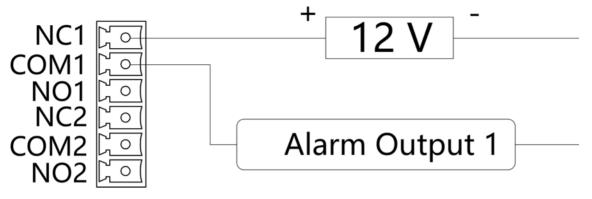


Figure 4-14 Alarm Output Wiring 1

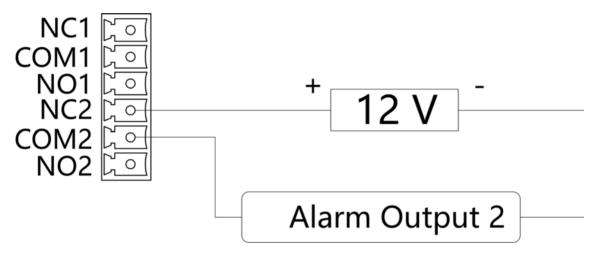


Figure 4-15 Alarm Output Wiring 2

4.3.13 Alarm Input Wiring

On the main user extended interface board, you can wire the fire alarm input interface.

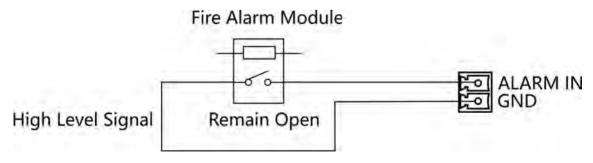


Figure 4-16 Remaining Open

Fire Alarm Module ALARM IN GND Remain Closed

Figure 4-17 Remaining Closed

Chapter 5 Device Settings

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

After the learning, the turnstile is in the normal mode. You can also set the turnstile to study mode, normal mode, and pair the keyfob, initialize the hardware via the main user extended interface board (middle/right pedestal).

Study Mode

Study the closed position.

Normal Mode

The device will work properly.

Keyfob Pairing

Pair the keyfob and the turnstile.

5.1 Set Study Mode

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

Steps

1. Set The No.1 of the 4-digit DIP Switch on the main user extended interface board to ON by referring the following figure to enter the study mode.

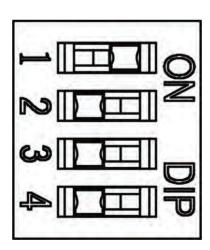


Figure 5-1 Study Mode

- 2. Adjust the closed position of the barrier.
- 3. Power on the device.

The device will remember the current position (closed position) automatically.

- **4.** Open and close the barriers.
- 5. Power off the device.

6. Set the No.1 switches of the 4-digit DIP Switch on the main user extended interface board by referring to the following figure.

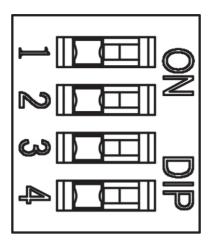


Figure 5-2 Normal Mode

7. Power on the device again.



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

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

5.2 Pair Keyfob (Optional)

Pair the remote control to the device through DIP switch to open/close the barrier 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 1 Switch on the access control board to the ON side.

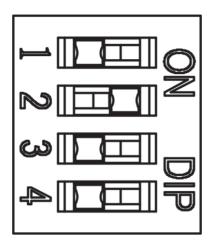


Figure 5-3 Enable Keyfob Paring Mode

- 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, and reboot the turnstile to take effect.



- 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** .
- **6. Optional:** Go to **System** → **User** → **Keyfob User** on the remote control page of the client software to delete the keyfob.

5.3 Initialize Device

Steps

1. Hold the initialization button.

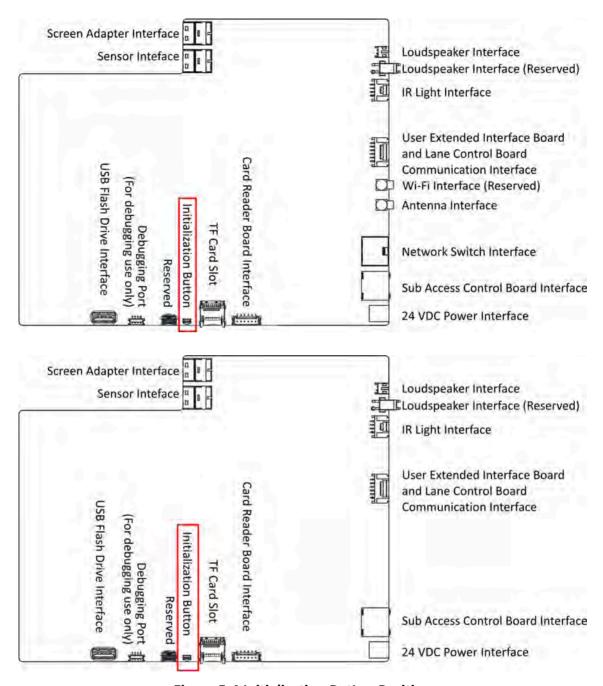


Figure 5-4 Initialization Button Position

- 2. Power off and reboot the device. The device buzzer buzzes a long beep.
- 3. When the beep stopped, release the initialization button.



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

DS-K3B961TX Series Swing Barrier User Manual

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1	Note

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

The initialization is completed.

Chapter 6 Activation

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

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

The default values of the device are as follows:

• The default IP address: 192.0.0.64

The default port No.: 8000The default user name: admin

6.1 Activate via Device

If the device is not activated, you can activate the device after it is powered on.

On the Activate Device page, create a password and confirm the password. Tap **Activate** and the device will activated.

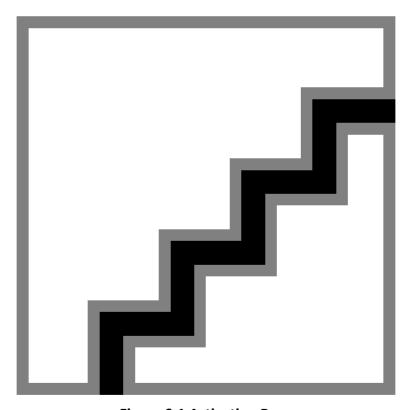


Figure 6-1 Activation Page



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 installer and/or end-user.



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

After activation, you should select language, set password change type, set application mode, set network, set platform parameters, set privacy parameters, and set administrator.

6.2 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**.



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.



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

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

6.3 Activate via SADP

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

Before You Start

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

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

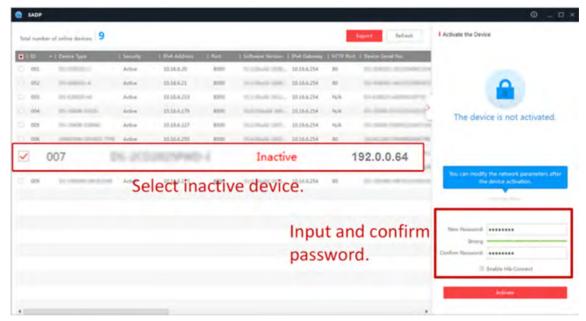
Steps

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



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

4. Click Activate to start activation.



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

5. Modify IP address of the device.

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

6.4 Activate Device via iVMS-4200 Client Software

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

Steps



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.



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 installer and/or end-user.



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

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

Chapter 7 Operation via Web Browser

7.1 Login

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



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

Login via Web Browser

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

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

Login via Remote Configuration of Client Software

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

7.2 Overview

You can view the main lane and sub lane status.

Main Lane Status

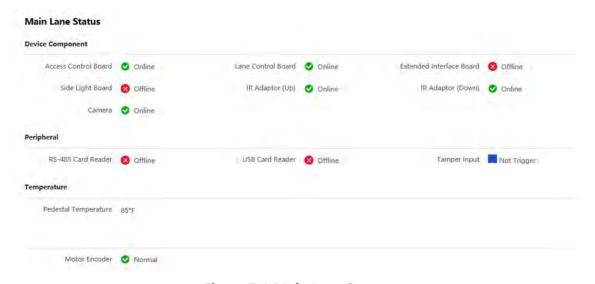


Figure 7-1 Main Lane Status

Device Component

You can view the status of the access control board, lane control board, extended interface board, side light board, IR adaptors and camera.

Peripheral

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

Temperature

You can view the pedestal temperature and the status of the motor encoder.

Sub Lane Status



Figure 7-2 Sub Lane Status

Device Component

You can view the status of the access control board, lane control board, side light board, IR adaptors and camera.

Peripheral

You can view the status of the RS-485 card reader, RS-232 card reader, USB card reader and tamper input.

Temperature

You can view the pedestal temperature and the status of the motor encoder.

Passing Mode

You can view the entrance and exit mode.

IR Detector Status

You can view the status of each pair of the 24 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.

7.3 Live View

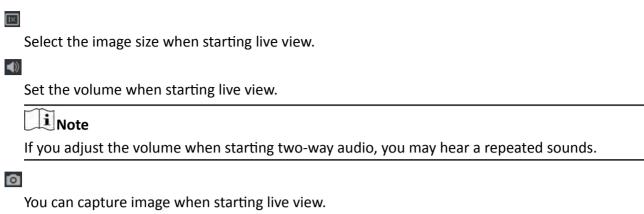
You can view the live video of the device.

After logging in, you will enter the live view page. You can perform the live view, capture, video recording, and other operations.



Figure 7-3 Live View Page

Function Descriptions:



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Reserved function. You can zoom in the live view image.

Start or stop live view.



Start or stop video recording.



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



Full screen view.

7.4 Person Management

Click and add the person's information, including the basic information, authentication mode, card, and fingerprint. And you can also edit user information, view user picture and search user information in the user list.

Add Basic Information

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

Add the person's basic information, including the employee ID, the person's name, the gender, and the user role.

If you select **Visitor** as the user role, you can set the visit times.

Click **OK** to save the settings.

Set Permission Time

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

Set Start Time and End Time and the person can only has the permission within the configured time period.

If you enable Always Valid, the permission time setting is not required.

Click **OK** to save the settings.

Set Access Control

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

After check **Administrator** in **Access Control**, the added person can log in the device by authentication.

Click **OK** to save the settings.

Add Authentication Mode

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

Set the authentication type.

Click **OK** to save the settings.

Add Card

Click **User** → **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.

Click **OK** to save the settings.

Add Face Picture

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

Click + on the right to upload a face picture from the local PC.



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

Click **OK** to save the settings.

7.5 Import Blocklist

Import blocklist for user management.

Steps

- 1. Click Import Blocklist.
- 2. Click Download Template.

The blocklist template will be downloaded on your PC.

- **3.** Fill in the blocklist user information following the template.
- 4. Click and choose the blocklist file.
- 5. Click OK to upload the file.
- **6. Optional:** Click **Clear Blocklist** to delete all the blocklist user information.

7.6 Search Event

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



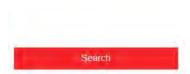


Figure 7-4 Search Event

Enter the search conditions, including the event 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.

7.7 Device Management

You can manage the linked device on the page.

Steps

1. Click **Device Management** to enter the settings page.



Figure 7-5 Device Management

- 2. Click **Add** to add the indoor station or sub door station. Enter the parameters and click **OK** to add.
- 3. Click Import. Enter the information of the device in the template to import devices in batch.
- 4. Click Export to export the information to the PC.
- 5. Select the device and click **Delete** to remove the selected device from the list.
- 6. Click Refresh to get the device information.
- 7. Optional: Set Device Information.

Edit Device Information
 Click ☑ to edit device information.
 Delete Device Information
 Click ⑪ to delete device information from the list.
 Search Devices
 Select Status and Device Type to search devices.

7.8 Configuration

7.8.1 Set Local Parameters

Set the live view parameters, record file size and saving path, and captured pictures and clip saving path.

Set Live View Parameters

Click **Configuration** → **Local** to enter the Local page. Configure the stream type, the play performance, auto start live view, and the image format and click **Save**.

Set Record File Size and Saving Path

Click **Configuration** → **Local** to enter the Local page. Select a record file size and select a saving path from your local computer and click **Save**.

You can also click **Open** to open the file folder to view details.

Set Captured Pictures and Clips Saving Path

Click **Configuration** → **Local** to enter the Local page. Select a saving path from your local computer and click **Save**.

You can also click **Open** to open the file folder to view details.

7.8.2 View Device Information

View the device name, language, model, serial No., version, number of channels, IO input, IO output, Local RS-485, alarm input, alarm output, and device capacity, etc.

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

You can view the device name, language, model, serial No., version, number of channels, IO input, IO output, Local RS-485, alarm input, alarm output, and device capacity, etc.

7.8.3 Set Time

Set the device's time zone, synchronization mode, and the device time.

Click Configuration → System → System Settings → Time Settings.

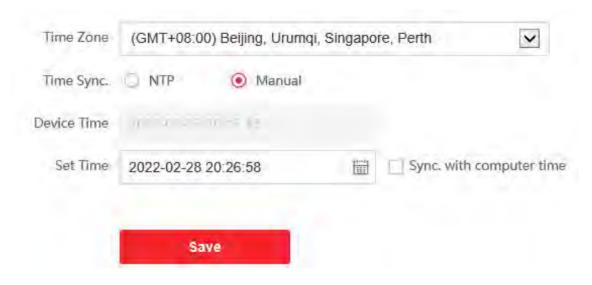


Figure 7-6 Time Settings

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 alarm receiver type, 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.

7.8.4 Set DST

Steps

1. Click Configuration → System → System Settings → DST.



Figure 7-7 DST Page

- 2. Check Enable DST.
- 3. Set the DST start time, end time and bias time.
- 4. Click Save to save the settings.

7.8.5 View Open Source Software License

Go to **Configuration** → **System** → **System Settings** → **About**, and click **View Licenses** to view the device license.

7.8.6 Upgrade and Maintenance

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

Reboot Device

Click Configuration → System → Maintenance → Upgrade & Maintenance .

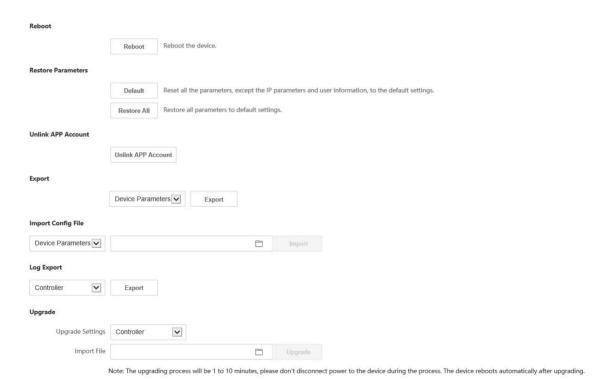


Figure 7-8 Upgrade and Maintenance Page

Click **Reboot** to start reboot the device.

Restore Parameters

Click Configuration → System → Maintenance → Upgrade & Maintenance .

Restore All

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

Default

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

Unlink APP Account

Unlink the Hik-Connect account from the platform.

Import and Export Parameters

Click Configuration → System → Maintenance → Upgrade & Maintenance.

Export	
Click Export to export the logs or device parameters.	
Note	
You can import the exported device parameters to another device.	
Import	
Click en and select the file to import. Click Import to start import configuration file.	

Upgrade

Click Configuration → System → Maintenance → Upgrade & Maintenance.

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

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1	Noto

Do not power off during the upgrading.

7.8.7 Log Query

You can search and view the device logs.

Go to Configuration → System → Maintenance → Log Query .

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

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

7.8.8 Security Mode Settings

Set the security mode for logging in the client software.

On the Device for Management page, click **Configuration** → **System** → **Security** → **Security Service** .

Enable SSH

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

Enable HTTP

In order to increase the network security level when visiting websites, you can enable HTTP to acquire a more secure and encrypted network communication environment. The communication should authenticated by identity and encryption password after enabling HTTP, which is save.

7.8.9 Certificate Management

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



The function is only supported by certain device models.

Create and Install Self-signed Certificate

Steps

- 1. Go to Configuration → System → 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 Configuration → System → 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 Configuration → System → Security → Certificate Management .
- 2. Create an ID in the Inport CA Certificate area.



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

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

7.8.10 Change Administrator's Password

Steps

- 1. Click Configuration → User Management .
- 2. Click [4].
- 3. Enter the old password and create a new password.
- **4.** Confirm the new password.
- 5. Click OK.



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 installer and/or end-user.

7.8.11 Online Users

The information of users logging into the device is shown.

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

7.8.12 View Device Arming/Disarming Information

View device arming type and arming IP address.

Go to Configuration → User Management → Arming/Disarming Information .

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

7.8.13 Network Settings

Set TCP/IP and port parameters.

Set Basic Network Parameters

Click Configuration \rightarrow Network \rightarrow Basic Settings \rightarrow TCP/IP.



Figure 7-9 TCP/IP Settings Page

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

DHCP

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

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

Network Card

Select network card from the drop-down list.

NIC Type

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

DNS Server

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

Set Port Parameters

Set the HTTP, RTSP and HTTPS port parmaeters.

Click Configuration → Network → Basic Settings → 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.

RTSP

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

HTTPS

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

Configure HTTP Listening

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

Before You Start

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



The function should be supported by the device.

Steps

- 1. Click Configuration → Network → Advanced → HTTP Listening.
- 2. Edit the event alarm IP address or domain name, URL, port, and protocol.
- 3. Optional: Click Default to reset the event alarm IP address or domain name.
- 4. Click Save.

7.8.14 Set Video and Audio Parameters

Set the image quality, resolution, and the device volume.

Set Video Parameters

Click Configuration → Video/Audio → Video .

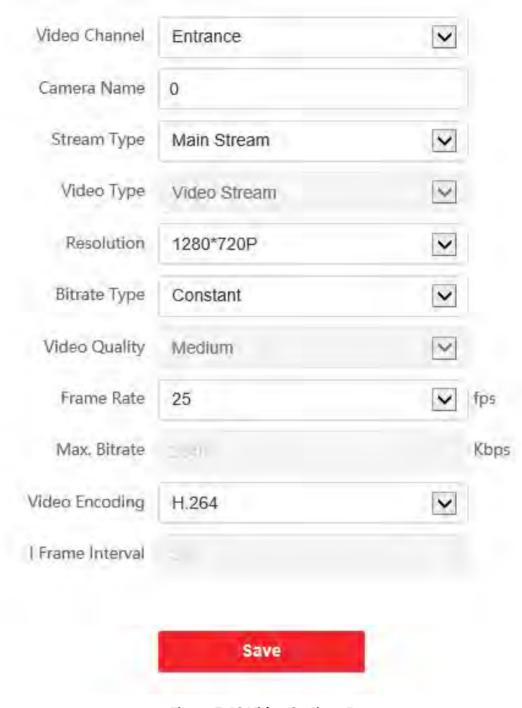


Figure 7-10 Video Settings Page

Set the video channel, camera name, stream type, the video type, the resolution, the bitrate type, the video quality, the frame rate, the Max. bitrate, the video encoding, and I Frame Interval.

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

Set Audio Parameters

Click Configuration → Video/Audio → Audio .

Select the audio channel.

You can also drag the block to adjust the device output volume.

Click to enable Voice Prompt.

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



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

7.8.15 Customize Audio Content

Customize the output audio content when authentication succeeded and failed.

Steps

1. Click Configuration → Video/Audio → Prompt .

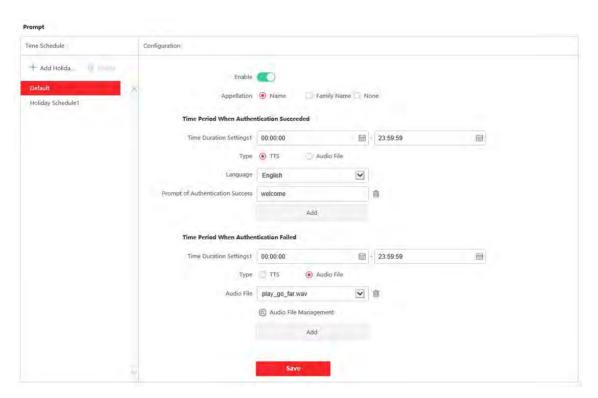
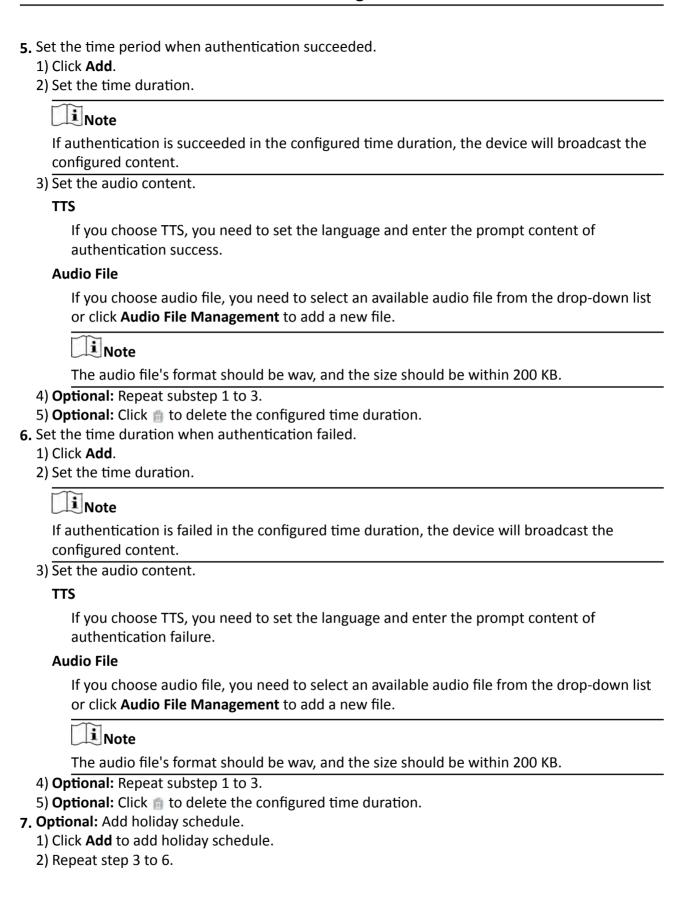


Figure 7-11 Customize Audio Content

- 2. Select time schedule.
- 3. Enable the function.
- 4. Set the appellation.



8. Click Save to save the settings.

7.8.16 Set Image Parameters

Set the display settings, video standard, WDR, image adjustment, supplement light, and beauty.

Steps

- 1. Click Configuration → Image .
- **2.** Configure the parameters to adjust the image.

Display Settings

Set the entrance or exit display.

Video Standard

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

PAL

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

NTSC

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

WDR

Enable or disable the WDR function.

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

Brightness/Contrast/Saturation/Sharpness

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

Supplement Light Parameters

Set the supplement light type from the drop down list and select to enable or disable it.

If you select **On**, you can set the light brightness.

If you select **Disable**, the function will be disabled.

Beauty

Set whiten and smooth value for the face appeared on the device live view page.



Start/end recording video.



Capture the image.

3. Click **Default** to restore the parameters to the default settings.

7.8.17 Event Linkage

Set linked actions for events.

Steps

1. Click Configuration → Event → Basic Event → Event Linkage to enter the page.

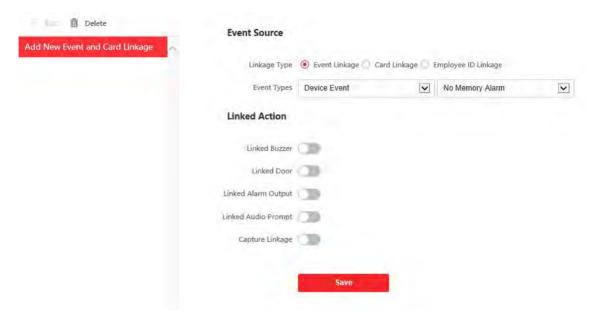


Figure 7-12 Event Linkage

- 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 **Employee ID Linkage**, you need to enter the employee ID and select the card reader.
- 3. Set linked action.

Linked Buzzer

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

Linked Door

Enable **Linked Door**, check **Door 1** or **Door 2**, 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.

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 **Audio File Management** to add a new audio file.

Capture Linkage

Enable Capture Linkage and select the card reader to capture for the target event.

7.8.18 General Settings

Set Authentication Parameters

Click Configuration → General → Authentication Settings.



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

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

Card Reader

Select **Entrance** or **Exit** card reader from the drop-down list.

Card Reader Type/Card Reader Description

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

Enable Card Reader

Enable the card reader's function.

Authentication

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

Recognition Interval

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



The recognition internal value ranges from 1 to 10.

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.

DS-K3B961TX Series Swing Barrier User Manual

Note
The authentication interval value ranges from 0 to 255.
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 0 to 255.
Max. Interval When Entering Password
When you entering the password on the card reader, if the interval between pressing two digits is longer than the set value, the digits you pressed before will be cleared automatically.
Note

OK LED Polarity/Error LED Polarity

Set OK LED Polarity/Error LED Polarity of the access control device according to the card reader parameters. Generally, adopts the default settings.

Enable Tampering Detection

Enable the anti-tamper detection for the card reader.

The authentication interval value ranges from 1 to 255.

Set Privacy Parameters

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

Go to Configuration → General → Privacy

Event Storage 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.

Authentication Settings

Display Authentication Result

You can check **Face Picture**, **Name**, and **Employee ID**, to display the authentication result.

Name De-identification

You can check Name De-identification, and the whole name will not be displayed.

ID De-identification

You can check **ID De-identification**, and the ID will not be displayed.

Picture Uploading and Storage

Upload Picture After Linked Capture

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

Save Pictures After Linked Capture

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

Clear All Pictures in Device



All pictures cannot be restored once they are deleted.

Clear Registered Face Pictures

All registered pictures in the device will be deleted.

Clear Captured Pictures

All captured pictures in the device will be deleted.

Set Terminal Parameters

Set the working mode and remote authentication.

Steps

1. 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.

- 2. Set remote authentication.
 - 1) Enable Remote Authentication.

Note
The device will upload the person's authentication information to the platform. The plat form 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.
3) Select ID card verification center from the dron-down list

- 3) Select ID card verification center from the drop-down list.
- 4) Optional: Enable Blocklist Authentication.
- 3. Click Save to complete terminal parameter settings.

Set Card Security

Click **Configurat on** → **General** → **Card Security** to enter the settings page.

Set the parameters and click Save.

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.



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

Enable CPU Card

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

CPU Card Read Content

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

Enable ID Card

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

Enable FeliCa Card

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

Set Card Authentication Parameters

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

Go to Configuration → General → Card Authentication Settings.

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

7.8.19 Access Control Settings

Access Control Device Parameters

Set door contact settings and RS-485 protocol.

Steps

- 1. Click Configuration → Access Control → Access Control Device Parameters to enter the page.
- 2. Set door contact.

Note

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

- 3. Set RS-485 protocol.
- 4. Click Save.

Set Door Parameters

Click Configuration → Access Control → Door Parameters .

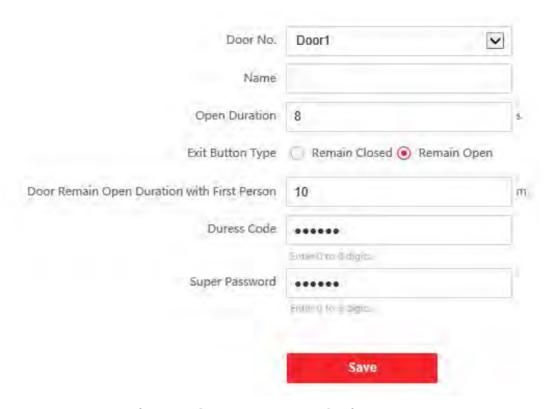


Figure 7-13 Door Parameters Settings Page

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

Door No.

Select the device corresponded door No.

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.

Exit Button Type

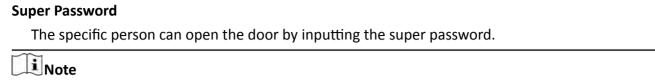
You can set the exit button as **Remain Open** or **Remain Closed** according to your actual needs. By default, it is **Remain Open**.

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.

Duress Code

The door can open by inputting the duress code when there is duress. At the same time, the client can report the duress event.



The duress code and the super code should be different.

Serial Port Settings

Set serial port parameters.

Steps

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

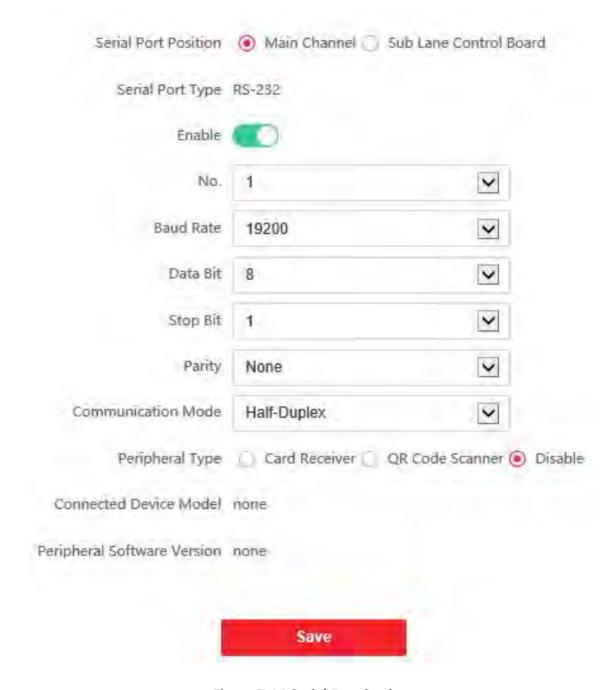


Figure 7-14 Serial Port Settings

- 2. Set Serial Port Position as Main Channel or Sub Lane Control Board.
- 3. Click to enable serial port settings.
- 4. Set the No., Baud Rate, Data Bit, Stop Bit, Parity and Communication Mode.
- 5. Set the Peripheral Type as Card Receiver, QR Code Scanner or Disable.
- **6.** You can view the serial port type, connected device model and peripheral software version.
- 7. Click Save.

7.8.20 Turnstile

Basic Parameters

Set turnstile basic parameters.

Steps

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

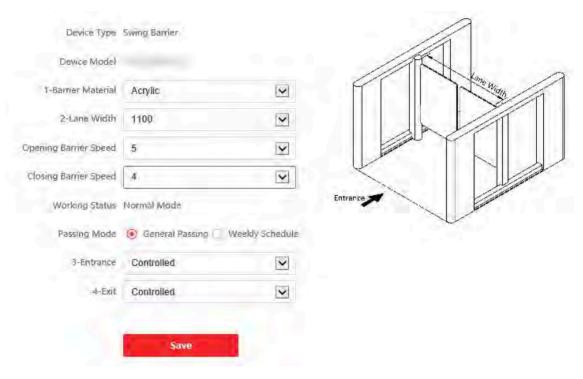


Figure 7-15 Basic Parameters

- 2. View the Device Type, Device Model and Working Status.
- 3. Set Barrier Material, Lane Width, Opening Barrier Speed and Closing Barrier 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 patameters.

Steps

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



Figure 7-16 keyfob

- 2. View the keyfob working status.
- 3. Set Working Mode as One-to-One or One-to-Many.
- 4. Add keyfob.
 - 1) Click **Add** and the keyfob adding window will pop up.
 - 2) Enter the Name and Serial No..
 - 3) Check to enable **Remain Open Permission** at your actual needs.
 - 4) Click **OK** to add the keyfob.
- 5. Optional: Select a keyfob and click Delete to delete the keyfob.
- 6. Click Save.

IR Detector

Set IR detector.

Steps

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



Figure 7-17 IR Detector

- 2. Set the entrance and exit inductive mode as Single Triggered or Triggered 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.

4. Click Save.

People Counting

Set people counting.

Steps

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



Figure 7-18 People Counting

- 2. Check to enable People Counting.
- 3. Enable Device Offline People Counting at your actual needs.
- 4. Select People Counting Type as Invalid, By Detection or By Authentication Number.
- **5. Optional:** Click **Reset** to clear all the people counting information.

Set Light

Set the side light, barrier light and entrance light for the device.

Steps

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

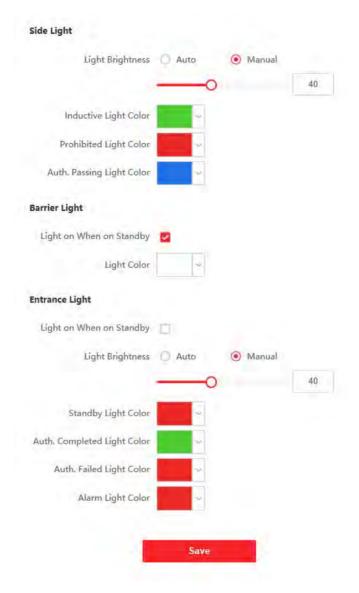


Figure 7-19 Light Settings

- 2. Set side light.
 - 1) Set **Light Brightness** as **Auto** or **Manual**. If you choose **Manual**, you can drag the block or enter the value to adjust the light brightness manually.
 - 2) Set inductive, prohibited and auth. passing light color.
- 3. Set barrier light.
 - 1) Check to enable **Light on When on Standby** at your actual needs.
 - 2) Set the barrier light.
- 4. Set entrance light.
 - 1) Check to enable **Light on When on Standby** at your actual needs.
 - 2) Set **Light Brightness** as **Auto** or **Manual**. If you choose **Manual**, you can drag the block or enter the value to adjust the light brightness manually.

- 3) Set the color of standby light, auth. completed light, auth. failed light and alarm light.
- 5. Click Save.

Other Settings

Set other parameters.

Steps

- 1. Click Configuration → Turnstile → Other Settings to enter the page.
- 2. Set Alarm Output Duration.



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

- 3. Set Temperature Unit.
- 4. Check to enable Do Not Open Barrier When Lane is Not Clear.
- 5. Drag the block or enter the value to adjust the lightboard brightness.
- **6.** Set the alarm buzzer beeping duration, door closing delay time, max. intrusion duration, overstaying duration and max. IR obstructed duration.
- 7. Check to enable **Memory Mode** at your actual needs.



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.

8. Choose the 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.

- **9.** Click to enable **Free Passing Authentication** at your actual needs.
- 10. Click Save.

7.8.21 Set Biometric Parameters

Set Basic Parameters

Click Configuration → Smart → Smart .

Note

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

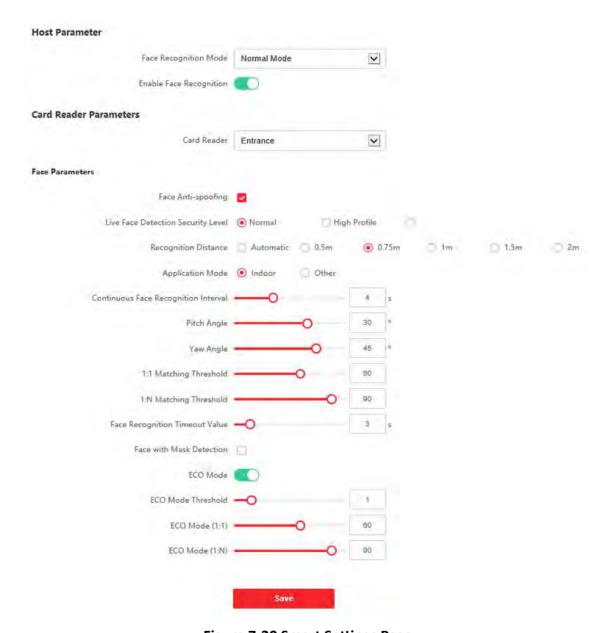


Figure 7-20 Smart Settings Page

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

Face Recognition Mode

Normal Mode

Recognize face via the camera normally.

Deep Mode

The device can recognize a much wider people range than the normal mode. This mode is applicable to a more complicated environment.

Enable Face Recognition

If enabling the function, the device will start face recognition.

Card Reader

Choose the entrance or exit card reader from the drop-down list.

Face Anti-spoofing

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



Biometric recognition products are not 100% applicable to anti-spoofing environments. If you require a higher security level, use multiple authentication modes.

Live Face Detection Security Level

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

Recognition Distance

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

Application Mode

Select either others or indoor according to actual environment.

Continuous Face Recognition Interval

Set the time interval between two continuous face recognitions when authenticating.

Pitch Angle

The maximum pitch angle when starting face authentication.

Yaw Angle

The maximum yaw angle when starting face authentication.

1:1 Matching Threshold

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

1:N Matching Threshold

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

Face Recognition Timeout Value

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

Face without Mask Detection

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

None

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

Reminder of Wearing

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

Must Wear

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

Face with Mask 1:N Matching Threshold

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

ECO Mode

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

ECO Mode (1:1)

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

ECO Mode (1:N)

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

Face with Mask & Face (1:1 ECO)

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

Face with Mask 1:N Matching Threshold (ECO Mode)

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

Set Recognition Area

Click Configuration → Smart → Area Configuration .

Drag the yellow frame in the live video to adjust the recognition area. Only the face within the area can be recognized by the system.

Click Save to save the settings. Click or to record videos or capture pictures.
7.8.22 Set Theme
You can set the display mode and the sleep time for the device.
Click Configuration → Theme → Theme .
Click Entrance or Exit to set theme, Click Save .
Display Mode
You can select display theme for device authentication. You can select Display Mode as Simple , Authentication Mode , or Advertisement . When you select Simple , the information of name, ID face picture will be not displayed. When you select Advertisement , the advertisement will be displayed in the screen.
Sleep
Enable Sleep and the device will enter the sleep mode when no operation within the configured sleep time.
Note
The sleep time ranges from 20 s to 999 s.
7.8.23 Notice Publication
You can set the notice publication for the device.
Click Configuration → Theme → Notice Publication .
Set the notice publication parameters and click Save .
Material Management
Click + and select picture to add to the material database.
Click Upload .
Note
The picture format should be JPG or JPEG. Up to 10 pictures can be added and the picture size

Theme Management

should be no more than 1 MB.

You can click + in the frame to add a program.

- If you choose picture, you can click + in Picture area and select a picture from the material database to display on the device screen saver.
- If you choose welcome message, you can select the **Template**, and enter the main title and the sub title, and select the **Font Size** and **Font Color**. You can also click **Custom** to select the customized background picture from the material database.

Slide Show Interval

Drag the block or enter the number to set the slide show interval. The picture will be changed according to the interval.



The slide show interval ranges from 1 s to 10 s.

Play Schedule

Click + Add to add a program. You can enter the schedule name, select a theme and draw a schedule on the time line. Click Save.

Select the drawn schedule and you can edit the exact start and end time.

Select the drawn schedule and you can click **Delete** to delete the schedule.

Click \triangleleft to view the publication record. Click \triangleleft to view the terminal play schedule.

Chapter 8 Client Software Configuration

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

8.1 Configuration Flow of Client Software

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

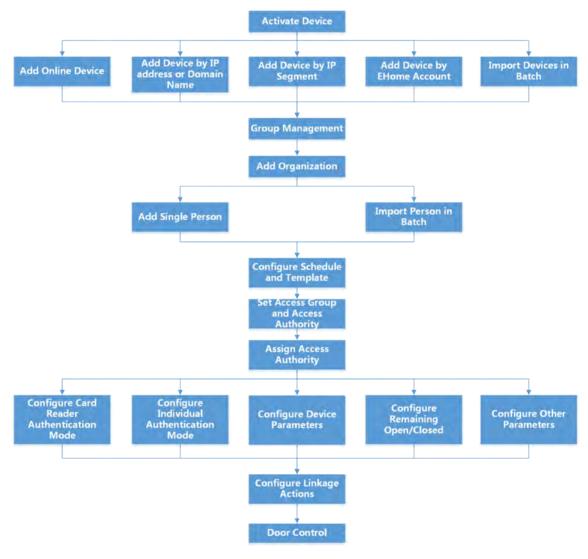


Figure 8-1 Flow Diagram of Configuration on Client Software

8.2 Device Management

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

Example

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

8.2.1 Add Device

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

Add Device by IP Address or Domain Name

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

Steps

- 1. Enter Device Management module.
- 2. Click **Device** tab on the top of the right panel.

The added devices are displayed on the right panel.

- 3. Click Add to open the Add window, and then select IP/Domain as the adding mode.
- 4. Enter the required information.

Name

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

Address

The IP address or domain name of the device.

Port

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



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

User Name

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

Password

Enter the device password.



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 installer and/or end-user.

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



- This function should be supported by the device.
- If you have enabled Certificate Verification, you should click **Open Certificate Directory** to open the default folder, and copy the certificate file exported from the device to this default directory to strengthen the security. See for details about enabling certificate verification.
- You can log into the device to get the certificate file by web browser.
- **6.** Check **Synchronize Time** to synchronize the device time with the PC running the client after adding the device to the client.
- **7. Optional:** Check **Import to Group** to create a group by the device name, and import all the channels of the device to this group.

Example

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

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

Import Devices in a Batch

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

Steps

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

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

i Note

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

Adding Mode

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

Address

Edit the address of the device.

Port

Enter the device port number. The default port number is **80**.

User Name

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

Password

Enter the device password.



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 installer and/or end-user.

Import to Group

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

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

8.2.2 Reset Device Password

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

Steps

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

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

- **3.** Select the device from the list and click **2** on the Operation column.
- 4. Reset the device password.
 - Click **Generate** to pop up the QR Code window and click **Download** to save the QR code to your PC. You can also take a photo of the QR code to save it to your phone. Send the picture to our technical support.



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



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 installer and/or end-user.

8.2.3 Manage Added Devices

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

Table 8-1 Manage Added Devices

Edit Device	Click to edit device information including device name, address, user name, password, etc.
Delete Device	Check one or more devices, and click Delete to delete the selected devices.
Remote Configuration	Click to set remote configuration of the corresponding device. For details, refer to the user manual of device.
View Device Status	Click to view device status, including door No., door status, etc. Note For different devices, you will view different information about device status.

	Click to view the details of online user who access the device, including user name, user type, IP address and login time.
Refresh Device Information	Click to refresh and get the latest device information.

8.3 Group Management

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

Example

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

8.3.1 Add Group

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

Steps

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



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

8.3.2 Import Resources to Group

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

Before You Start

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

Steps

1. Enter the Device Management module.

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



You can click \blacksquare or \blacksquare to switch the resource display mode to thumbnail view or to list view.

6. Click **Import** to import the selected resources to the group.

8.4 Person Management

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

8.4.1 Add Organization

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

Steps

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



Up to 10 levels of organizations can be added.

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

Edit Organization Delete Organization

Hover the mouse on an added organization and click to edit its name.

Hover the mouse on an added organization and click $\overline{\times}$ to delete it.



- The lower-level organizations will be deleted as well if you delete an organization.
- Make sure there is no person added under the organization, or the organization cannot be deleted.

Show Persons in Sub Organization

Check **Show Persons in Sub Organization** and select an organization to show persons in its sub organizations.

8.4.2 Import and Export Person Identify Information

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

Import Person Information

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

Steps

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



- If the person has multiple cards, separate the card No. with semicolon.
- · Items with asterisk are required.
- By default, the Hire Date is the current date.
- 7. Click to select the CSV/Excel file with person information from local PC.
- 8. Click Import to start importing.



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

Import Person Pictures

After importing face pictures for the added persons to the client, the persons in the pictures can be identified by an added face recognition terminal. You can either import person pictures one by one, or import multiple pictures at a time according to your need.

Before You Start

Be sure to have imported person information to the client beforehand.

Steps

1. Enter the Person module.

- 2. Select an added organization in the list, or click **Add** in the upper-left corner to add an organization and then select it.
- 3. Click Import to open the Import panel and check Face.
- **4. Optional:** Enable **Verify by Device** to check whether face recognition device managed in the client can recognize the face in the photo.
- **5.** Click to select a face picture file.



- The (folder of) face pictures should be in ZIP format.
- Each picture file should be in JPG format and should be no larger than 200 KB.
- Each picture file should be named as "Person ID_Name". The Person ID should be the same with that of the imported person information.
- 6. Click Import to start importing.

The importing progress and result will be displayed.

Export Person Information

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

Before You Start

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

Steps

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



All persons' information will be exported if you do not select any organization.

- 3. Click Export.
- 4. Enter the super user name and password for verification.

The Export panel is displayed.

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

Export Person Pictures

You can export face picture file of the added persons and save in your PC.

Before You Start

- Make sure you have added persons and their face pictures to an organization.
- Make sure you have enabled the Export Person Information function to display the Export button. See for details.

Steps

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



All persons' face pictures will be exported if you do not select any organization.

- 3. Click Export on the top menu bar.
- 4. Enter the super user name and password for verification.

The Export panel is displayed.

- 5. Check Face as the content to export.
- 6. Click Export and set an encryption key to encrypt the exported file.



- The exported file is in ZIP format.
- The exported face picture is named as "Person ID_Name_0" ("0" is for a full-frontal face).

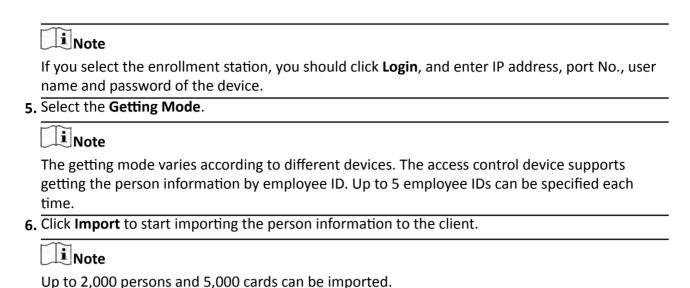
8.4.3 Get Person Information from Access Control Device

If the access control device has been configured with person information (including person details, fingerprint, and issued card information), you can get the person information from the added device and import them to the client for further operations.

Steps



- If the person name stored in the device is empty, the person name will be filled with the issued card No. after importing to the client.
- The gender of the persons will be **Male** by default.
- If the card number or person ID (employee ID) stored on the device already exists in the client database, the person with this card number or person ID will not be imported to the client.
- 1. Enter Person module.
- 2. Select an organization to import the persons.
- 3. Click Get from Device.
- 4. Select an added access control device or the enrollment station from the drop-down list.



The person information, including person details, person's fingerprint information (if configured), and the linked cards (if configured), will be imported to the selected organization.

8.4.4 Issue Cards to Persons in Batch

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

Steps

- 1. Enter Person module.
- 2. Click Batch Issue Cards.

All the added persons with no card issued will be displayed in the right panel.

- **3. Optional:** Enter key words (name or person ID) in the input box to filter the person(s) that need issuing cards.
- 4. Optional: Click Settings to set the card issuing parameters. For details, refer to .
- **5.** Click **Initialize** to initialize the card enrollment station or card reader to make it ready for issuing cards.
- 6. Click the Card No. column and enter the card number.
 - Place the card on the card enrollment station.
 - Swipe the card on the card reader.
 - Manually enter the card number and press the **Enter** key.

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

8.4.5 Report Card Loss

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

Steps

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

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

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

8.4.6 Set Card Issuing Parameters

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

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

Local Mode: Issue Card by Card Enrollment Station

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

Card Enrollment Station

Select the model of the connected card enrollment station



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

Card Type

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

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

Serial Port

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

Select the COM the card enrollment station connects to.

Buzzing

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

Card No. Type

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

M1 Card Encryption

This field is only available when the model is DS-K1F100-D8, DS-K1F100-D8E, or DS-K1F180-D8E. If the card is M1 card, and if you need to enable the M1 Card Encryption function, you should enable this function and select the sector of the card to encrypt.

Remote Mode: Issue Card by Card Reader

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

8.5 Configure Schedule and Template

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



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

8.5.1 Add Holiday

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

Steps



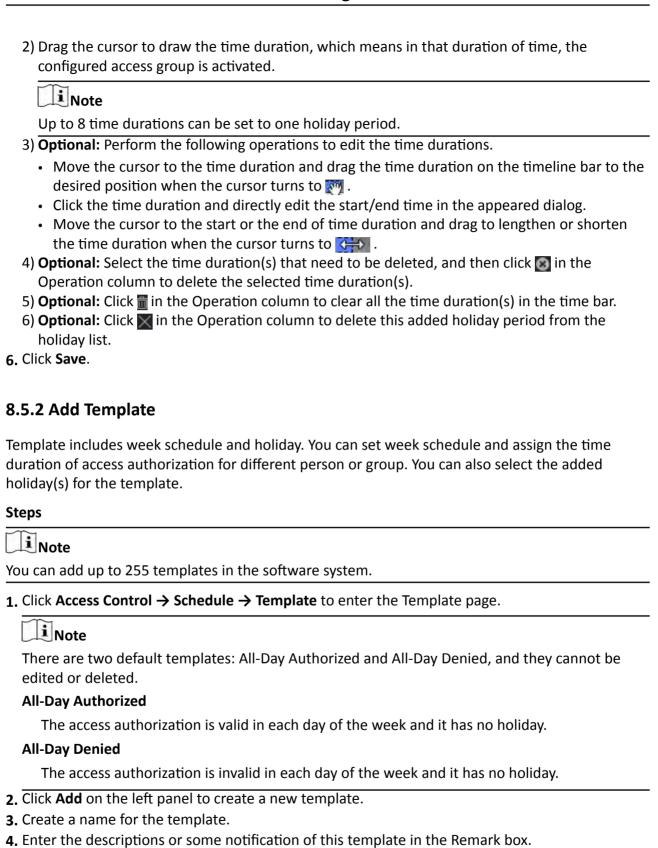
You can add up to 64 holidays in the software system.

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

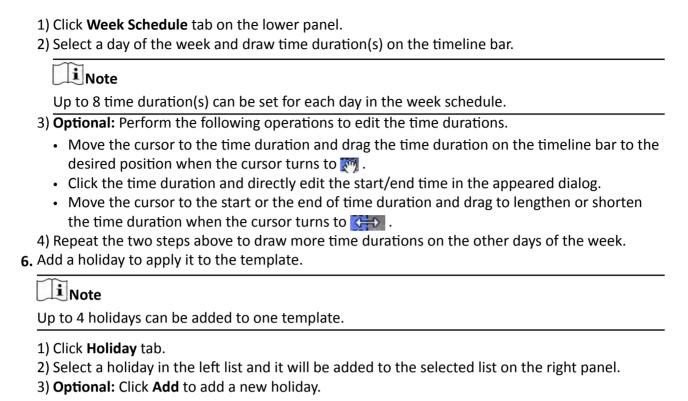
iNote

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

1) Click **Add** in the Holiday List field.



5. Edit the week schedule to apply it to the template.



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

8.6 Set Access Group to Assign Access Authorization to Persons

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

Before You Start

· Add person to the client.

i Note

- Add access control device to the client and group access points. For details, refer to <u>Group</u>
 <u>Management</u>.
- · Add template.

Steps

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

picture, linkage between card number and fingerprint, linkage between card number and fingerprint, card password, card effective period, etc).

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



You should configure the template before access group settings. Refer to **Configure Schedule and Template** for details.

- 5. In the left list of the Select Person field, select person(s) to assign access authority.
- **6.** In the left list of the Select Access Point field, select door(s), door station(s) or floor(s) for the selected persons to access.
- 7. Click Save.

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

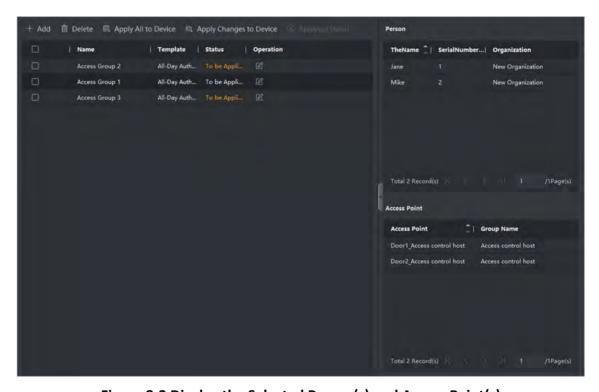


Figure 8-2 Display the Selected Person(s) and Access Point(s)

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

3) Click Apply All to Devices or Apply Changes to Devices.

Apply All to Devices

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

Apply Changes to Devices

This operation will not clear the existed access groups of the selected devices and only apply the changed part of the selected access group(s) to the device(s).

4) View the applying status in the Status column or click **Applying Status** to view all the applied access group(s).



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

The selected persons in the applied access groups will have the authorization to enter/exit the selected doors/door stations with their linked card(s) or fingerprints.

9. Optional: Click **1** to edit the access group if necessary.



If you change the persons' access information or other related information, you will view the prompt**Access Group to Be Applied** on the right corner of the client.

You can click the prompt to apply the changed data to the device. You can select either **Apply Now** or **Apply Later**.

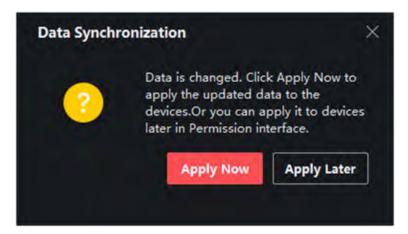


Figure 8-3 Data Synchronization

8.7 Configure Advanced Functions

You can configure the advanced functions of access control to meet some special requirements in different scene, such as multi-factor authentication, anti-passback, etc.



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

8.7.1 Configure Device Parameters

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

Configure Parameters for Access Control Device

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

Before You Start

Add access control device to the client.

Steps

1. Click Access Control → Advanced Function → Device Parameter.



If you can not find Device Parameter in the Advanced Function list, hover the cursor on the Advanced Function, and then Click to select the Device Parameter to be displayed.

- 2. Select an access device to show its parameters on the right page.
- 3. Turn the switch to ON to enable the corresponding functions.



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

RS-485 Comm. Redundancy

You should enable this function if you wire the RS-485 card reader to the access control device redundantly.

Display Detected Face

Display face picture when authenticating.

Display Card Number

Display the card information when authenticating.

Display Person Information

Display the person information when authenticating.

Overlay Person Info. on Picture

Display the person information on the captured picture.

Voice Prompt

If you enable this function, the voice prompt is enabled in the device. You can hear the voice prompt when operating in the device.

Upload Pic. After Linked Capture

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

Save Pic. After Linked Capture

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

Press Key to Enter Card Number

If you enable this function, you can input the card No. by pressing the key.

- 4. Click OK.
- **5. Optional:** Click **Copy to**, and then select the access control device(s) to copy the parameters in the page to the selected device(s).

Configure Parameters for Door/Elevator

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

Before You Start

Add access control device to the client.

Steps

- 1. Click Access Control → Advanced Function → Device Parameter.
- 2. Select an access control device on the left panel, and then click to show the doors or floors of the selected device.

- 3. Select a door or floor to show its parameters on the right page.
- 4. Edit the door or floor parameters.



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

Name

Edit the card reader name as desired.

Door Contact

You can set the door sensor as remaining closed or remaining open. Usually, it is remaining closed.

Exit Button Type

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

Door Locked Time

After swiping the normal card and relay action, the timer for locking the door starts working.

Extended Open Duration

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

Door Left Open Timeout Alarm

The alarm can be triggered if the door has not been closed in a configured time period. If it is set as 0, no alarm will be triggered.

Lock Door when Door Closed

The door can be locked once it is closed even if the **Door Locked Time** is not reached.

Duress Code

The door can open by inputting the duress code when there is duress. At the same time, the client can report the duress event.

Super Password

The specific person can open the door by inputting the super password.

Dismiss Code

Create a dismiss code which can be used to stop the buzzer of the card reader (by entering the dismiss code on the keypad).



- The duress code, super code, and dismiss code should be different.
- The duress code, super password, and the dismiss code should be different from the authentication password.
- The length of duress code, super password, and the dismiss code is according the device, usually it should contains 4 to 8 digits.
- 5. Click OK.
- **6. Optional:** Click **Copy to** , and then select the door/floor(s) to copy the parameters in the page to the selected doors/floor(s).



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

Configure Parameters for Card Reader

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

Before You Start

Add access control device to the client.

Steps

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



- The displayed parameters may vary for different access control devices. There are part of parameters listed as follows. Refer to the user manual of the device for more details.
- Some of the following parameters are not listed in the Basic Information page, click **More** to edit the parameters.

Name

Edit the card reader name as desired.

OK LED Polarity/Error LED Polarity/Buzzer Polarity

Set OK LED Polarity/Error LED Polarity/Buzzer LED Polarity of main board according to the card reader parameters. Generally, adopts the default settings.

Minimum Card Swiping Interval

If the interval between card swiping of the same card is less than the set value, the card swiping is invalid. You can set it as 0 to 255.

Max. Interval When Entering PWD

When you inputting the password on the card reader, if the interval between pressing two digits is larger than the set value, the digits you pressed before will be cleared automatically.

Alarm of Max. Failed Attempts

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

Max. Times of Card Failure

Set the max. failure attempts of reading card.

Tampering Detection

Enable the anti-tamper detection for the card reader.

Communicate 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.

Buzzing Time

Set the card reader buzzing time. The available time ranges from 0 to 5,999s. 0 represents continuous buzzing.

Card Reader Type/Card Reader Description

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

Fingerprint Recognition Level

Select the fingerprint recognition level in the drop-down list.

Default Card Reader Authentication Mode

View the default card reader authentication mode.

Fingerprint Capacity

View the maximum number of available fingerprints.

Existing Fingerprint Number

View the number of existed fingerprints in the device.

Score

The device will score the captured picture according to the yaw angle, pitch angle, and pupillary distance. If the score is less than the configured value, face recognition will be failed.

Face Recognition Timeout Value

If the recognition time is more than the configured time, the device will remind you.

Face Recognition Interval

The time interval between two continuous face recognitions when authenticating. By default, it is 2s.

Face 1:1 Matching Threshold

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

1:N Security Level

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

Live Face Detection

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

Live Face Detection Security Level

After enabling Live Face Detection function, you can set the matching security level when performing live face authentication.

Max. Failed Attempts for Face Auth.

Set the maximum live face detection failed attempts. The system will lock the user's face for 5 minutes if the live face detection is failed for more than the configured attempts. The same user cannot authenticate via the fake face within 5 minutes. Within the 5 minutes, the user can authenticate via the real face twice continuously to unlock.

Lock Authentication Failed Face

After enabling the Live Face Detection function, the system will lock the user's face for 5 minutes if the live face detection is failed for more than the configured attempts. The same user cannot authenticate via the fake face within 5 minutes. Within the 5 minutes, the user can authenticate via the real face twice continuously to unlock.

Application Mode

You can select indoor or others application modes according to actual environment.

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

Configure Parameters for Alarm Output

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

Before You Start

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

Steps

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

Name

Edit the card reader name as desired.

Alarm Output Active Time

How long the alarm output will last after triggered.

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

Configure Parameters for Lane Controller

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

Before You Start

Add access control device to the client.

Steps

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

Passing Mode

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

- If you select **According to Lane Controller's DIP Settings**, the device will follow the lane controller's DIP settings to control the barrier. The settings on the software will be invalid.
- If you select **According to Main Controller's Settings**, the device will follow the settings of the software to control the barrier. The DIP settings of the lane controller will be invalid.

Free Passing Authentication

If you enable this function, when both entrance and exit's barrier mode is Remain Open, the pedestrians should authenticate each time passing through the lane. Or an alarm will be triggered.

Opening/Closing Barrier Speed

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

Note
The recommended value is 6.

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

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

Temperature Unit

Select the temperature unit that displayed in the device status.

4. Click OK.

8.7.2 Configure Other Parameters

After adding the access control device, you can set its parameters such as network parameters, capture parameters, RS-485 parameters, Wiegand parameters, etc.

Set Parameters for Face Recognition Terminal

For face recognition terminal, you can set its parameters including face picture database, QR code authentication, etc.

Steps



This function should be supported by the device.

- 1. Enter the Access Control module.
- 2. On the navigation bar on the left, enter Advanced Function -> More Parameters .
- 3. Select an access control device in the device list and click Face Recognition Terminal.
- 4. Set the parameters.



These parameters displayed vary according to different device models.

COM

Select a COM port for configuration. COM1 refers to the RS-485 interface and COM2 refers to the RS-232 interface.

Face Picture Database

select Deep Learning as the face picture database.

Authenticate by QR Code

If enabled, the device camera can scan the QR code to authenticate. By default, the function is disabled.

Blocklist Authentication

If enabled, the device will compare the person who want to access with the persons in the blocklist.

If matched (the person is in the blocklist), the access will be denied and the device will upload an alarm to the client.

If mismatched (the person is not in the blocklist), the access will be granted.

Save Authenticating Face Picture

If enabled, the captured face picture when authenticating will be saved on the device.

MCU Version

View the device MCU version.

5. Click Save.

Set RS-485 Parameters

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

Before You Start

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

Steps

- 1. Enter the Access Control module.
- 2. On the navigation bar on the left, enter Advanced Function → More Parameters .
- **3.** Select an access control device in the device list and click **RS-485** to enter the RS-485 Settings page.
- **4.** Select the serial port number from the drop-down list to set the RS-485 parameters.
- **5.** Set the baud rate, data bit, the stop bit, parity type, communication mode, working mode, and connection mode in the drop-down list.



When the connection mode is **Connect Access Control Device**, you can select **Card No.** or **Person ID** as the output type.

- 6. Click Save.
 - The configured parameters will be applied to the device automatically.
 - When you change the working mode or connection mode, the device will reboot automatically.

Set Wiegand Parameters

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

Before You Start

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

Steps

- 1. Enter the Access Control module.
- 2. On the navigation bar on the left, enter Advanced Function -> More Parameters .

- **3.** Select an access control device in the device list and click **Wiegand** to enter the Wiegand Settings page.
- **4.** Set the switch to on to enable the Wiegand function for the device.
- 5. Select the Wiegand channel No. and the communication mode from the drop-down list.



If you set **Communication Direction** as **Sending**, you are required to set the **Wiegand Mode** as **Wiegand 26** or **Wiegand 34**.

- 6. Click Save.
 - The configured parameters will be applied to the device automatically.
 - · After changing the communication direction, the device will reboot automatically.

Enable M1 Card Encryption

M1 card encryption can improve the security level of authentication.

Steps



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

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

The sector ID ranges from 1 to 100.

6. Click Save to save the settings.

8.8 Door/Elevator Control

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



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

8.8.1 Control Door Status

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

Before You Start

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

Steps

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



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

The doors in the selected access control group will display.

3. Click a door icon to select a door, or press Ctrl and select multiple doors.



For Remain All Unlocked and Remain All Locked, ignore this step.

4. Click the following buttons to control the door.

Unlock

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

Lock

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

Remain Unlocked

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

Remain Locked

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

Remain All Unlocked

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

Remain All Locked

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

Capture

Capture a picture manually.



The **Capture** button is available when the device supports capture function. The picture is saved in the PC running the client. For setting the saving path, refer to .

Result

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

8.8.2 Check Real-Time Access Records

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

Before You Start

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

Steps

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

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

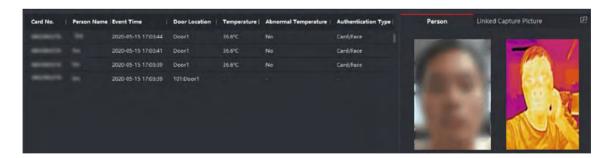


Figure 8-4 Real-time Access Records

IINote

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

- **2. Optional:** Select an access point group from the drop-down list in the upper-right corner to show the real time access records of the selected group.
- **3. Optional:** Check the event type and event status.

The detected events of checked type and status will be displayed in the list below.

4. Optional: Check **Show Latest Event** to view the latest access record.

The record list will be listed reverse chronologically.

5. Optional: Check **Enable Abnormal Temperature Prompt** to enable abnormal skin-surface temperature prompt.

iNote

When enabled, if there is abnormal temperature information, an Abnormal Temperature window pops up when you enter Monitoring module, displaying person's picture, skin-surface temperature, card No., person name, etc.

6. Optional: Click an event to view person pictures (including captured picture and profile).

i Note

In **Linked Capture Picture** field, you can double click the captured picture to view an enlarged picture.

7. Optional: Click to view surveillance details (including person's detailed information and the captured picture).

Note

In the pop-up window, you can click to view surveillance details in full screen.

Appendix A. Tips When Collecting/Comparing Face Picture

The position when collecting or comparing face picture is as below:

Expression

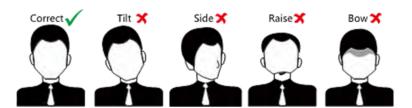
• Keep your expression naturally when collecting or comparing face pictures, just like the expression in the picture below.



- Do not wear hat, sunglasses, or other accessories that can affect the facial recognition function.
- Do not make your hair cover your eyes, ears, etc. and heavy makeup is not allowed.

Posture

In order to get a good quality and accurate face picture, position your face looking at the camera when collecting or comparing face pictures.



Size

Make sure your face is in the middle of the collecting window.







Appendix B. DIP Switch

B.1 DIP Switch Description

The DIP switch is on the main user extended interface board. No.1 to No 4 is from the low bit to the high bit.

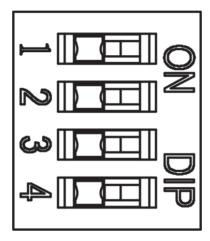


Figure B-1 DIP Switch

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

B.2 DIP Switch Corresponded Functions

Note

After setting the DIP switch, you should reboot the device, or the function cannot take effect.

The 4-bit DIP switch corresponded functions on the access control board are as follows:

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

Appendix 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
Barrier Obstructed	None

Appendix D. 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
Normal Working	00	Lower Fifth IR Beam Triggered	21
First IR Beam Triggered	01	Lower Sixth IR Beam Triggered	22
Second IR Beam Triggered	02	Lower Seventh IR Beam Triggered	23
Third IR Beam Triggered	03	Lower Eighth IR Beam Triggered	24
Fourth IR Beam Triggered	04	Lower Ninth IR Beam Triggered	25
Fifth IR Beam Triggered	05	Lower Tenth IR Beam Triggered	26
Sixth IR Beam Triggered	06	Lower Eleventh IR Beam Triggered	27
Seventh IR Beam Triggered	07	Lower Twelfth IR Beam Triggered	28
Eighth IR Beam Triggered	08	Lower Thirteenth IR Beam Triggered	29
Ninth IR Beam Triggered	09	Lower Fourteenth IR Beam Triggered	30
IR Beam Triggered	10	Lower Fifteenth IR Beam Triggered	31
Eleventh IR Beam Triggered	11	Lower Sixteenth IR Beam Triggered	32
Twelfth IR Beam Triggered	12	Light Board Offline (Entrance)	49
Thirteenth IR Beam Triggered	13	Light Board Offline (Exit)	50
Fourteenth IR Beam Triggered	14	IR Adapter Offline (Up)	51
Fifteenth IR Beam Triggered	15	IR Adapter Offline (Low)	52
Sixteenth IR Beam Triggered	16	CAN Bus Exception	53
Lower First IR Beam Triggered	17	Not Studying	54

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Error Reason	Code	Error Reason	Code
Lower Second IR Beam Triggered	18	Obstruction	55
Lower Third IR Beam Triggered	19	Exceeding Studying Range	56
Lower Fourth IR Beam Triggered	20	Motor Exception	57

Appendix E. Communication Matrix and Device Command

Communication Matrix

Scan the following QR code to get the device communication matrix. Note that the matrix contains all communication ports of Hikvision access control and video intercom devices.



Figure E-1 QR Code of Communication Matrix

Device Command

Scan the following QR code to get the device common serial port commands. Note that the command list contains all commonly used serial ports commands for all Hikvision access control and video intercom devices.



Figure E-2 Device Command

