



DS-K1T343 Series Face Recognition Terminal

User Manual

Legal Information

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The symbols that may be found in this document are defined as follows.

Symbol	Description
 Danger	Indicates a hazardous situation which, if not avoided, will or could result in death or serious injury.
 Caution	Indicates a potentially hazardous situation which, if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.
 Note	Provides additional information to emphasize or supplement important points of the main text.

Regulatory Information

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 B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

This equipment should be installed and operated with a minimum distance 20cm between the radiator and your body.

FCC Conditions

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

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.



Safety Instruction

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

The precaution measure is divided into Dangers and Cautions:

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

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

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

Danger:

- In the use of the product, you must be in strict compliance with the electrical safety regulations of the nation and region.
- Do not connect several devices to one power adapter as adapter overload may cause over-heat or fire hazard.
- 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.
- The socket-outlet shall be installed near the equipment and shall be easily accessible.
- 1. Do not ingest battery. Chemical burn hazard!
- 2. 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.
- 3. Keep new and used batteries away from children.
- 4. If the battery compartment does not close securely, stop using the product and keep it away from children.
- 5. If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.
- 6. CAUTION: Risk of explosion if the battery is replaced by an incorrect type.
- 7. Improper replacement of the battery with an incorrect type may defeat a safeguard (for example, in the case of some lithium battery types).
- 8. Do not dispose of the battery into fire or a hot oven, or mechanically crush or cut the battery, which may result in an explosion.
- 9. Do not leave the battery in an extremely high temperature surrounding environment, which may result in an explosion or the leakage of flammable liquid or gas.
- 10. Do not subject the battery to extremely low air pressure, which may result in an explosion or the leakage of flammable liquid or gas.
- 11. Dispose of used batteries according to the instructions.

Cautions:

- 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.
- Exposing the equipment to direct sun light, low ventilation or heat source such as heater or radiator is forbidden (ignorance can cause fire danger).
- 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).
- Please use a soft and dry cloth when clean inside and outside surfaces of the device cover, do not use alkaline detergents.
- Biometric recognition products are not completely applicable to anti-spoofing environments. If you require a higher security level, use multiple authentication modes.
- The serial port of the equipment is used for debugging 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.
- 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.
- This bracket is intended for use only with equipped devices. Use with other equipment may result in instability causing injury.
- This equipment is for use only with equipped bracket. Use with other (carts, stands, or carriers) may result in instability causing injury.

Available Models

Product Name	Model	Wireless
Face Recognition Terminal	DS-K1T343MX	13.56 MHz Card Presenting Frequency
	DS-K1T343MWX	13.56 MHz Card Presenting Frequency, Wi-Fi
	DS-K1T343MFX	13.56 MHz Card Presenting Frequency
	DS-K1T343MFWX	13.56 MHz Card Presenting Frequency, Wi-Fi
	DS-K1T343EX	125 KHz Card Presenting Frequency
	DS-K1T343EWX	125 KHz Card Presenting Frequency, Wi-Fi
	DS-K1T343EFX	125 KHz Card Presenting Frequency
	DS-K1T343EFWX	125 KHz Card Presenting Frequency, Wi-Fi

Use only power supplies listed in the user instructions:

Model	Manufacturer	Standard
ADS-12FG-12N 12012EPG	Shenzhen Honor Electronic Co., Ltd	PG

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Chapter 1 Overview

1.1 Overview

Face recognition terminal is a kind of access control device for face recognition, which is mainly applied in security access control systems, such as logistic centers, airports, university campuses, alarm centrals, dwellings, etc.

1.2 Features

- 4.3-inch LCD touch screen
- 2 MP wide-angle dual-lens
- Face anti-spoofing
- Face recognition distance: 0.3 m to 1.5 m
- Suggested height for face recognition: between 1.4 m and 1.9 m
- Deep learning algorithm
- 1500 face capacity, 3,000 card capacity, and 150,000 events
- Face recognition duration < 0.2 s/User; face recognition accuracy rate $\geq 99\%$
- Capture linkage and captured pictures storage
- Transmits card and user data from or to the client software via TCP/IP protocol and saves the data on the client software
- Imports pictures from the USB flash drive to the device or export pictures, events, from the device to the USB flash drive
- Stand-alone operation
- Manage, search and set device data after logging in the device locally
- Connects to one external card reader or access controller via RS-485 protocol
- Connects to secure door control unit via RS-485 protocol to avoid the door opening when the device is destroyed
- Two-way audio
- Arms by multiple client softwares
- Watchdog design and tamper function
- Support English, Spanish (South America), Arabic, Thai, Indonesian, Russian, Vietnamese, Portuguese (Brazil), Korean, and Japanese

Chapter 2 Appearance

The appearance of the device with fingerprint is as follows:

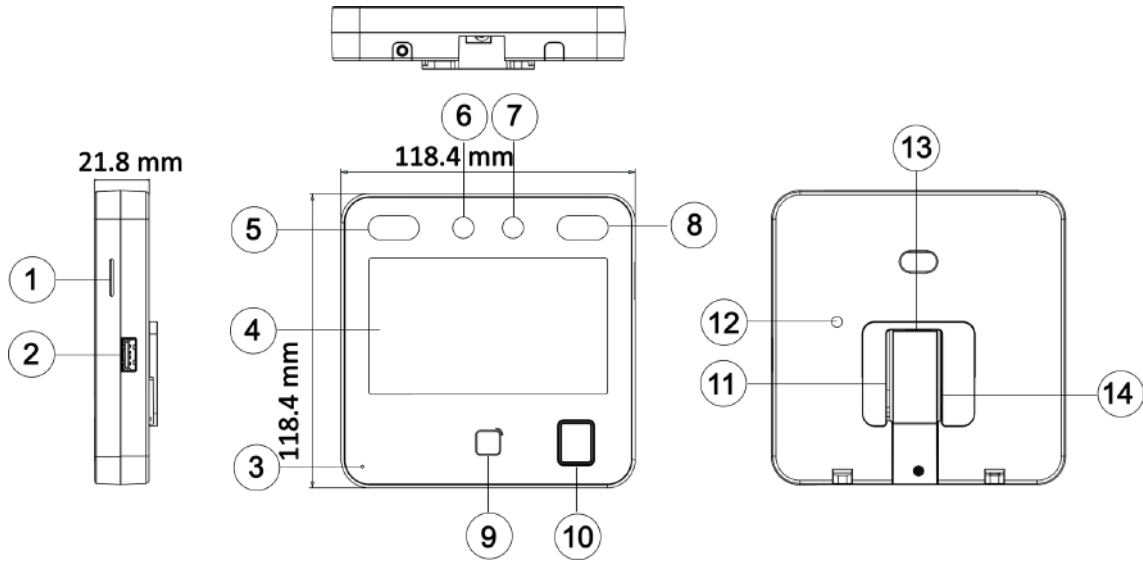


Figure 2-1 Appearance (With Fingerprint)

The appearance of the device without fingerprint is as follows:

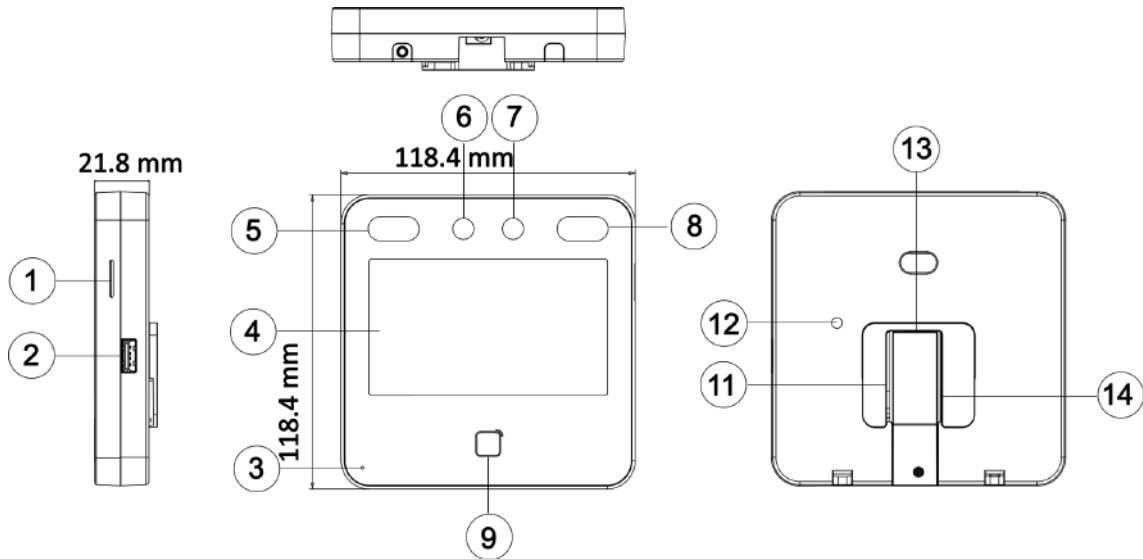



Figure 2-2 Appearance (Without Fingerprint)

Table 2-1 Appearance Description

No.	Name
1	Loudspeaker
2	USB Interface
3	MIC
4	Touch Screen
5	IR Light
6	Camera
7	Camera
8	IR Light
9	Card Presenting Area
10	Fingerprint Module  Note Only devices that support the fingerprint function contain a fingerprint module.
11	Wiring Terminal (Including Power Supply Interface)
12	TAMPER
13	Network Interface
14	Debugging Port (For Debugging Only)

Chapter 3 Installation

3.1 Installation Environment

- Avoid backlight, direct sunlight, and indirect sunlight.
- For better recognition, there should be light source in or near the installation environment.
- The minimum bearing weight of the wall or other places should be 3 times heavier than the device weight.
- There shall be no strong reflective objects (such as glass doors/walls, stainless steel objects, acrylic and other glossy plastics, lacquer, ceramic tiles, etc.) within 1 m of the field of view of the device.
- Avoid device reflection.
- Face recognition distance shall be greater than 30 cm.
- Keep the camera clean.

 **Note**

For details about installation environment, see *Tips for Installation Environment*.

3.2 Install with Gang Box

Steps

1. Make sure the gang box is installed on the wall.

 **Note**

You should purchase the gang box separately.

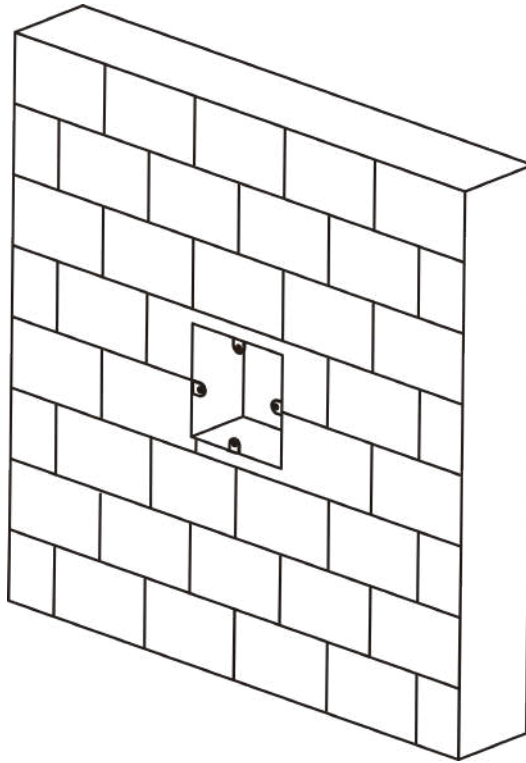


Figure 3-1 Install Gang Box

2. Use 4 supplied screws (M4) to secure the mounting plate on the gang box.

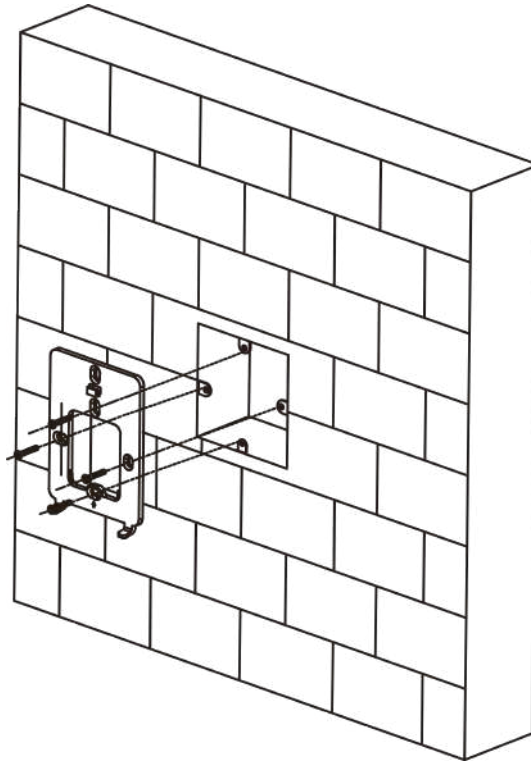


Figure 3-2 Install Mounting Plate

- 3.** Route the cables through the cable hole of the mounting plate, and connect to the corresponding peripherals cables.
- 4.** Buckle into the mounting plate after aligning the device with the mounting plate. Use 1 supplied screw (M3) to secure the device on the mounting plate.

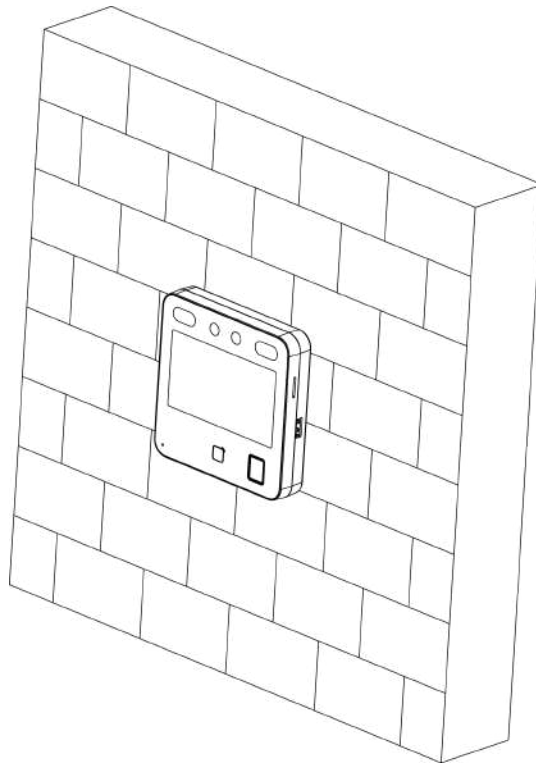


Figure 3-3 Secure Device

3.3 Base Mounting

Steps

1. Route the cables through the cable hole of the bracket, and connect the terminals with peripherals cables. Place the bracket close to the back side of the device.

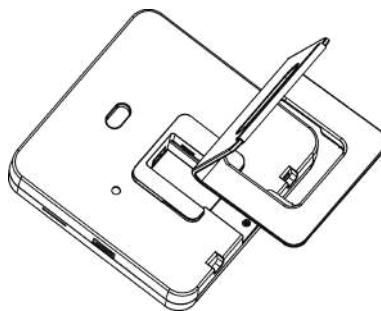


Figure 3-4 Place Bracket Close to Device Back Side

2. Press the bracket with both hands, and make sure that the buckle of the bracket fits with the back side of the device. Fasten the bracket in the direction of the arrow.

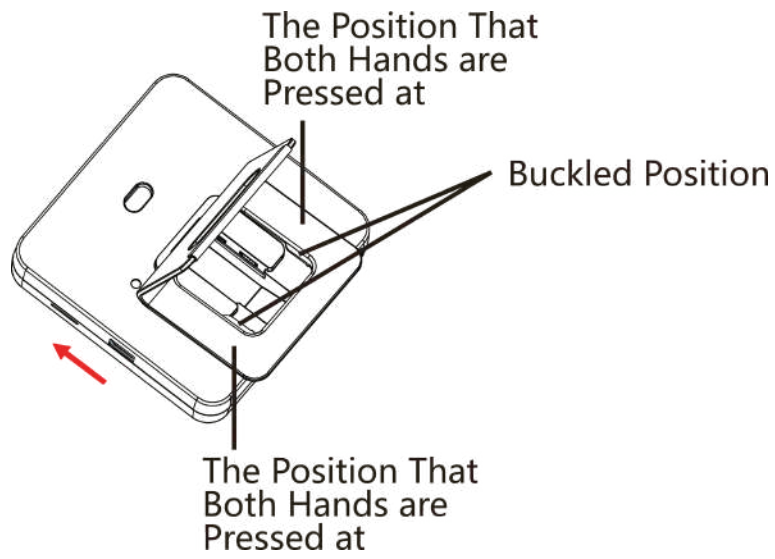


Figure 3-5 Fasten Bracket

3. Buckle into the bracket to the end to complete the installation.

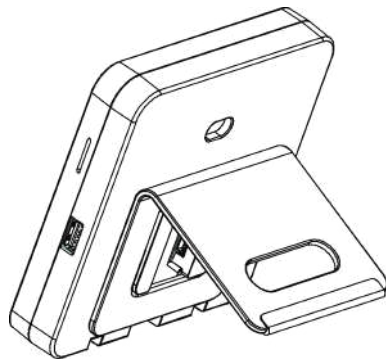


Figure 3-6 Complete Installation

Chapter 4 Wiring

You can connect the RS-485 terminal with the RS-485 card reader, connect the NC/NO and COM terminal with the door lock, connect the SEN and GND terminal with the door contact, the BTN/GND terminal with the exit button, and connect the Wiegand terminal with the access controller.

If connect the WIEGAND terminal with the access controller, the face recognition terminal can transmit the authentication information to the access controller and the access controller can judge whether to open the door or not.

Note

- If cable size is 18 AWG, you should use a 12 V power supply. And the distance between the power supply and the device should be no more than 20 m.
 - If the cable size is 15 AWG, you should use a 12 V power supply. And the distance between the power supply and the device should be no more than 30 m.
 - If the cable size is 12 AWG, you should use a 12 V power supply. And the distance between the power supply and the device should be no more than 40 m.
 - The external card reader, door lock, exit button, and door magnetic need individual power supply.
-

4.1 Terminal Description

The terminals contains power input, RS-485, Wiegand output, and door lock.

The descriptions of the terminals are as follows:

Table 4-1 Terminal Descriptions

Group	No.	Function	Color	Name	Description
Group A	A1	Power Input	Red	+12 V	12 VDC Power Supply
	A2		Black	GND	Ground
Group B	B1	RS-485	Yellow	485+	RS-485 Wiring
	B2		Blue	485-	
	B3		Black	GND	Ground
Group C	C1	Wiegand	Green	W0	Wiegand Wiring 0

Group	No.	Function	Color	Name	Description
	C2		White	W1	Wiegand Wiring 1
	C3		Black	GND	Ground
Group D	D1	Door Lock	White/Purple	NC	Lock Wiring (NC)
	D2		White/Yellow	COM	Common
	D3		White/Red	NO	Lock Wiring (NO)
	D4		Yellow/Green	SENSOR	Door Contact
	D5		Black	GND	Ground
	D6		Yellow/Grey	BUTTON	Exit Door Wiring

4.2 Wire Normal Device

You can connect the terminal with normal peripherals.

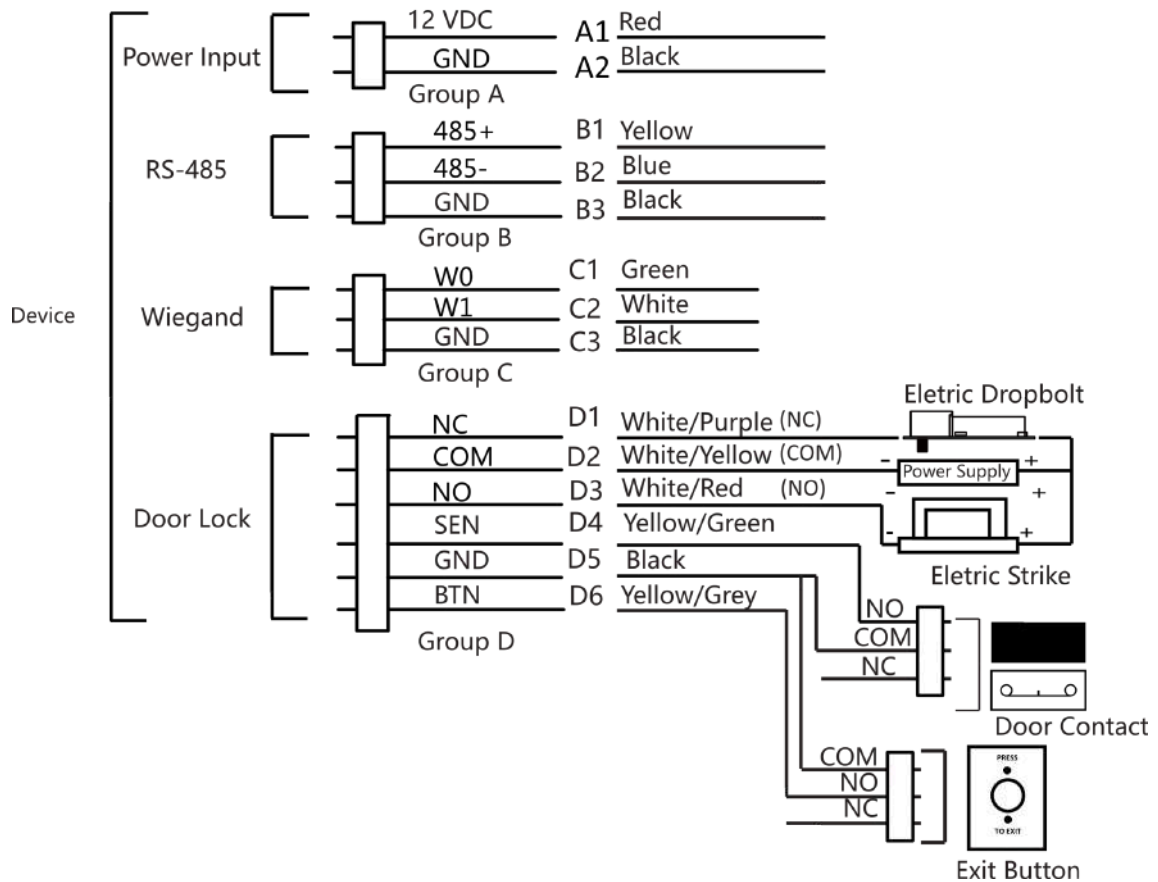


Figure 4-1 Device Wiring

Note

- If connects to an access controller, you should set the Wiegand direction as **Output** to transmit authentication information to the access controller.
- For details about Wiegand direction settings, see [Set Wiegand Parameters](#) .
- Do not wire the device to the electric supply directly.

4.3 Wire Secure Door Control Unit

You can connect the terminal with the secure door control unit.

The wiring diagram is as follows.

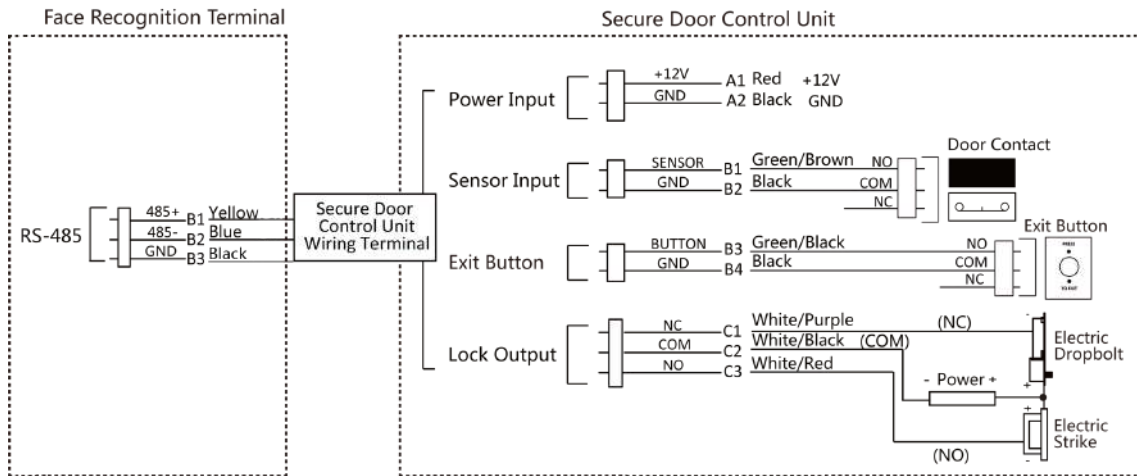


Figure 4-2 Secure Door Control Unit Wiring

Note

The secure door control unit should connect to an external power supply separately. The suggested external power supply is 12V, 0.5A.

4.4 Wire Fire Module

4.4.1 Wiring Diagram of Door Open When Powering Off

Lock Type: Anode Lock, Magnetic Lock, and Electric Bolt (NO)

Security Type: Door Open When Powering Off

Scenario: Installed in Fire Engine Access

Type 1

Note

The fire system controls the power supply of the access control system.

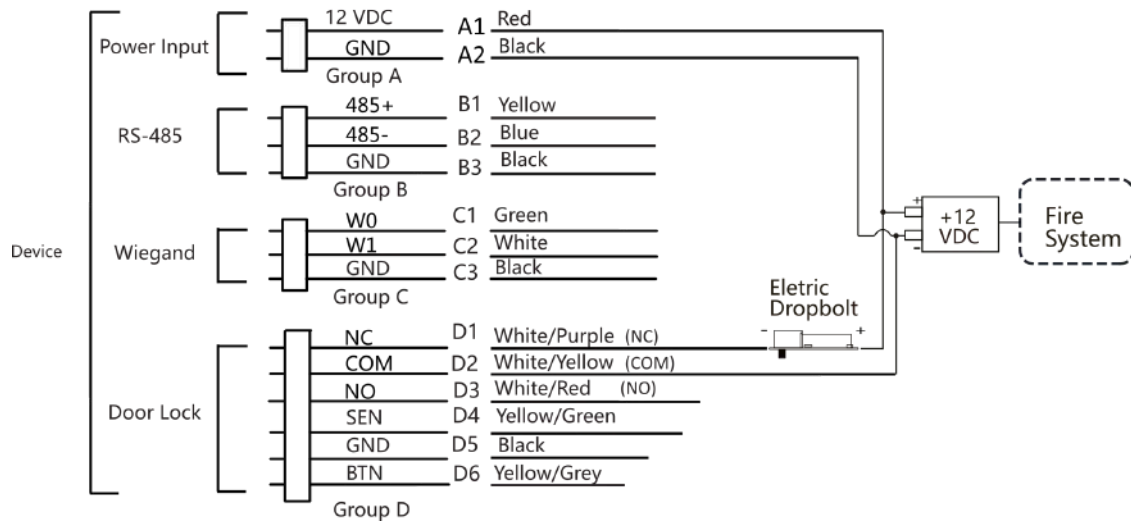


Figure 4-3 Wire Device

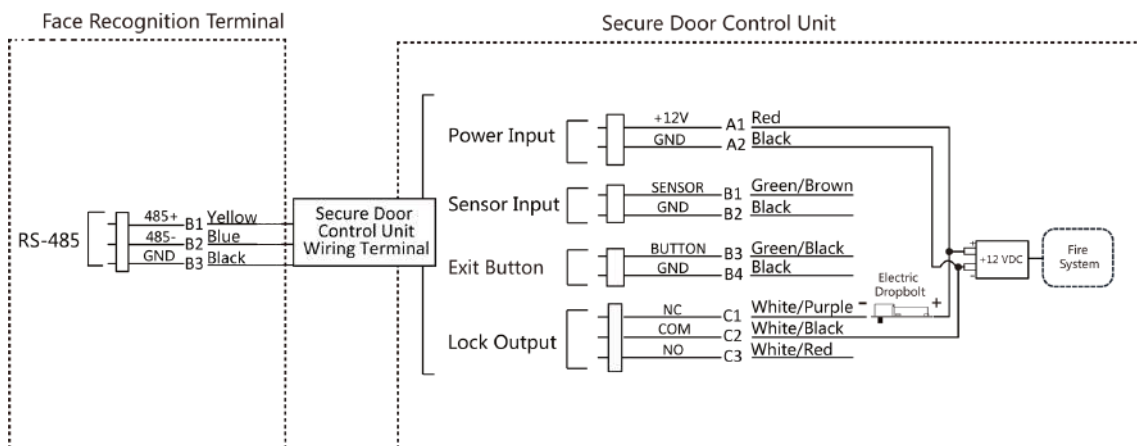


Figure 4-4 Wire Secure Door Control Unit

Type 2

Note

The fire system (NO and COM, normally open when powering off) is connected with the lock and the power supply in series. When an fire alarm is triggered, the door remains open. In normal times, NO and COM are closed.

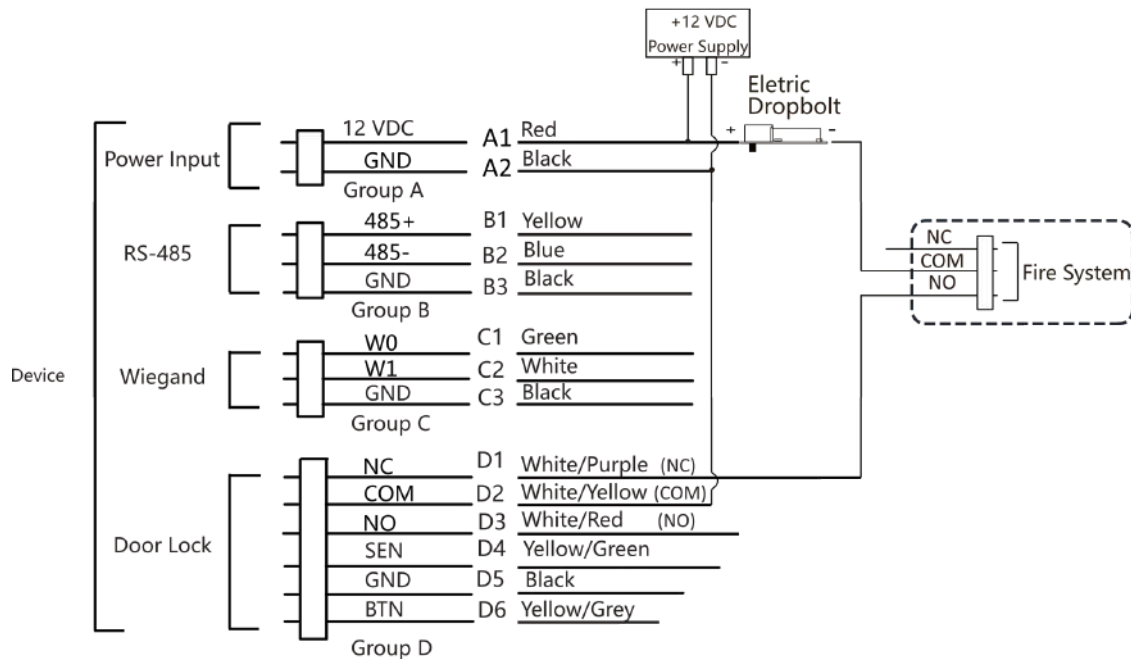


Figure 4-5 Wiring Device

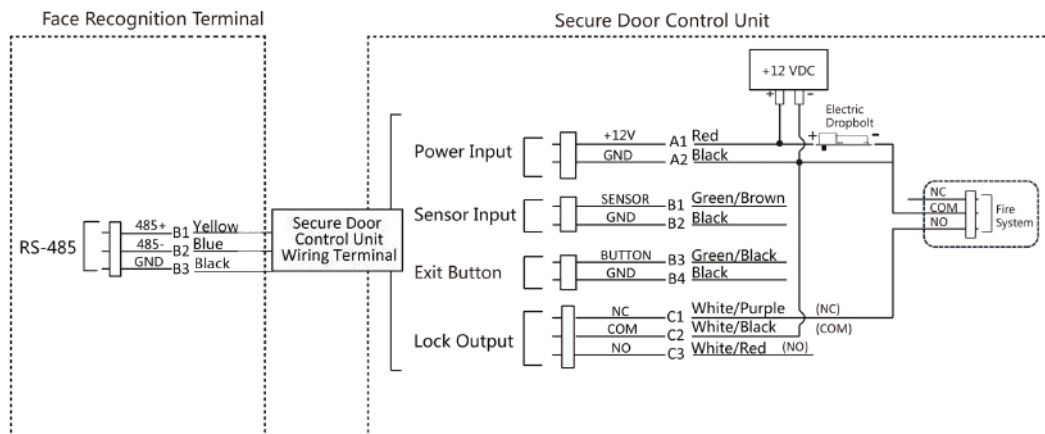


Figure 4-6 Wiring Secure Door Control Unit

4.4.2 Wiring Diagram of Door Locked When Powering Off

Lock Type: Cathode Lock, Electric Lock, and Electric Bolt (NC)

Security Type: Door Locked When Powering Off

Scenario: Installed in Entrance/Exit with Fire Linkage

Note

- The Uninterruptible Power Supply (UPS) is required.
- The fire system (NC and COM, normally closed when powering off) is connected with the lock and the power supply in series. When an fire alarm is triggered, the door remains open. In normal times, NC and COM are open.

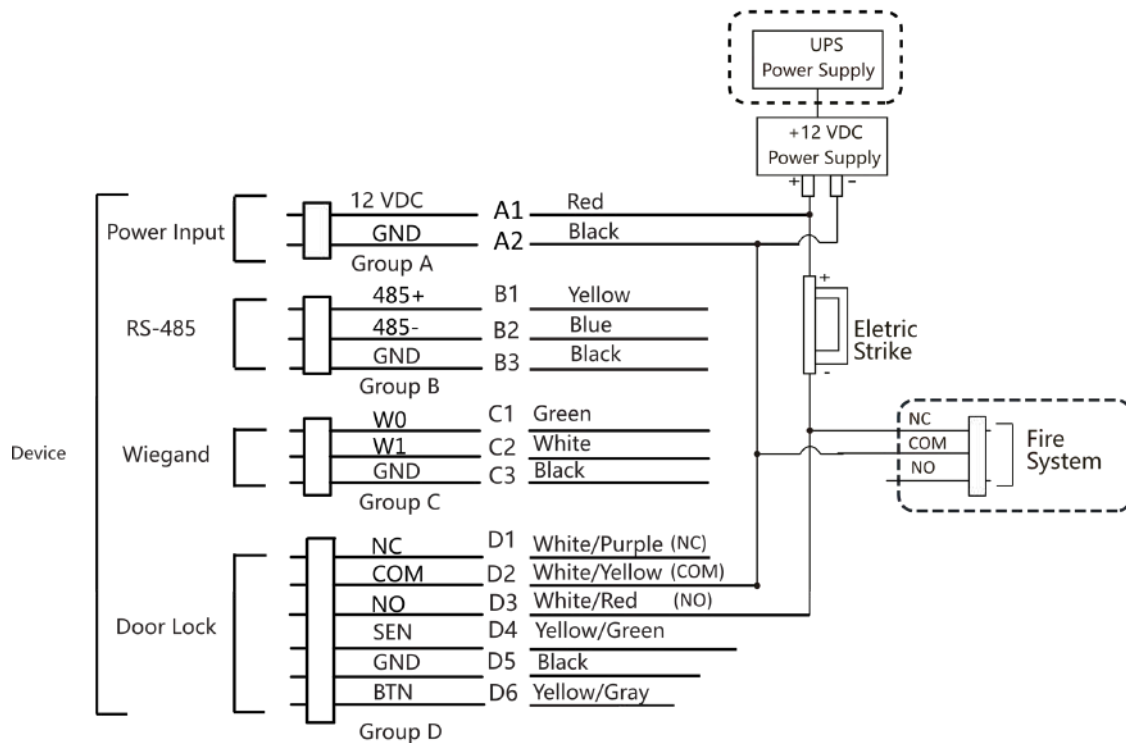


Figure 4-7 Device Wiring

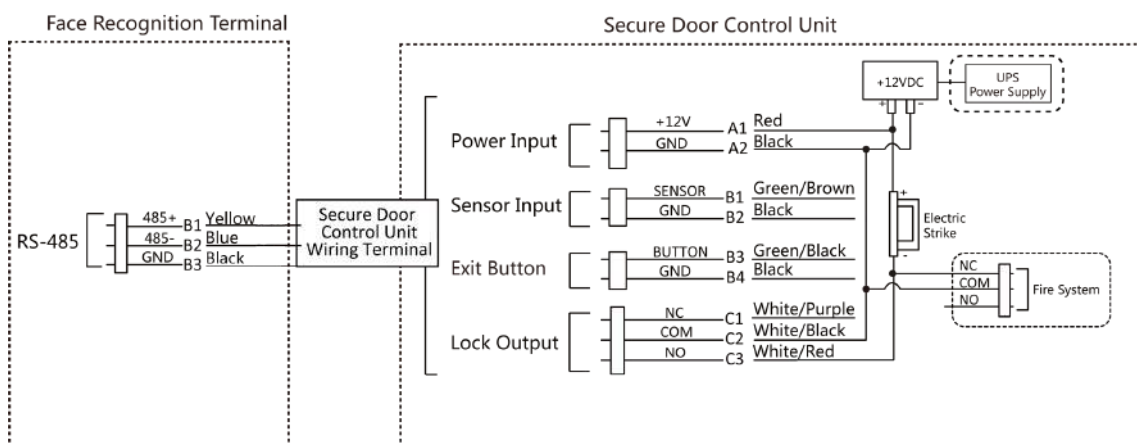


Figure 4-8 Wiring Diagram

Chapter 5 Activation

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

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

The default values of the device are as follows:

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

5.1 Activate via 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 be activated.

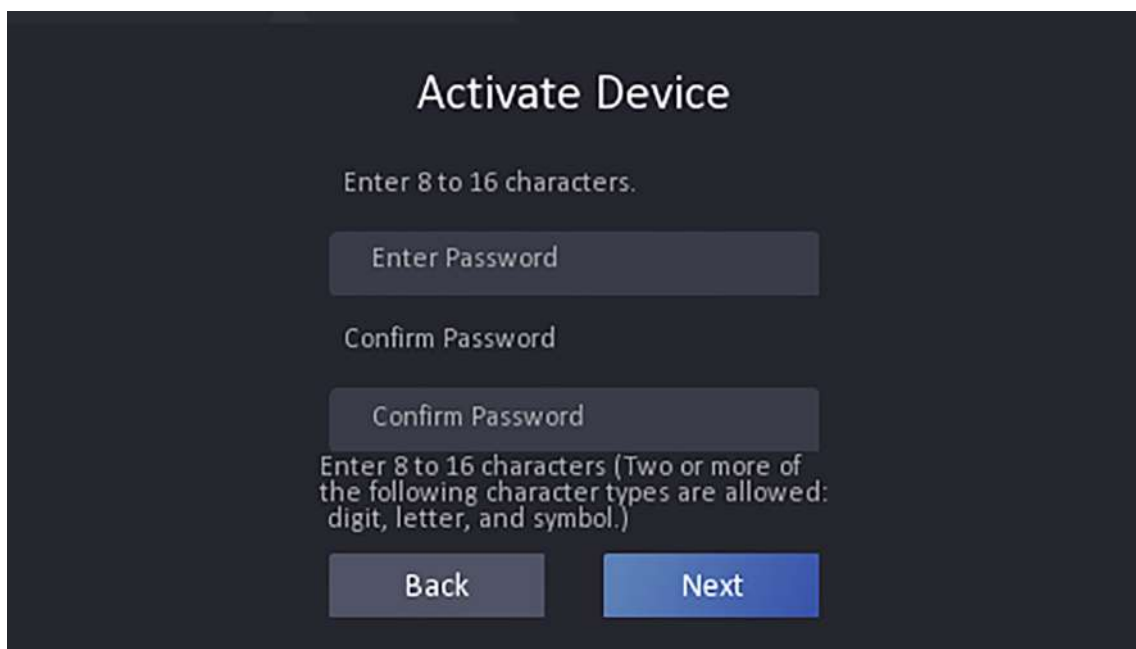


Figure 5-1 Activation Page

 **Caution**

The password strength of the device can be automatically checked. We highly recommend you change the password of your own choosing (using a minimum of 8 characters, including at least three kinds of following categories: upper case letters, lower case letters, numbers, and special

characters) in order to increase the security of your product. And we recommend you change your password regularly, especially in the high security system, changing the password monthly or weekly can better protect your product.

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

Note

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

- After activation, you should select a language according to your actual needs.
- After activation, you should select an application mode. For details, see **Set Application Mode** .
- After activation, you should set the network. For details, see **Set Network Parameters** .
- After activation, you can add the device to the platform. For details, see **Access to Platform** .
- After activation, if you need to set privacy, you should check the item. For details, see **Privacy Settings** .
- After activation, if you need to add administrator to manage the device parameters, you should set administrator. For details, see **Add Administrator** .

5.2 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**.
-

Note

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

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

Caution

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

Note

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

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

5.3 Activate via SADP

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

Before You Start

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

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

Steps

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



Caution

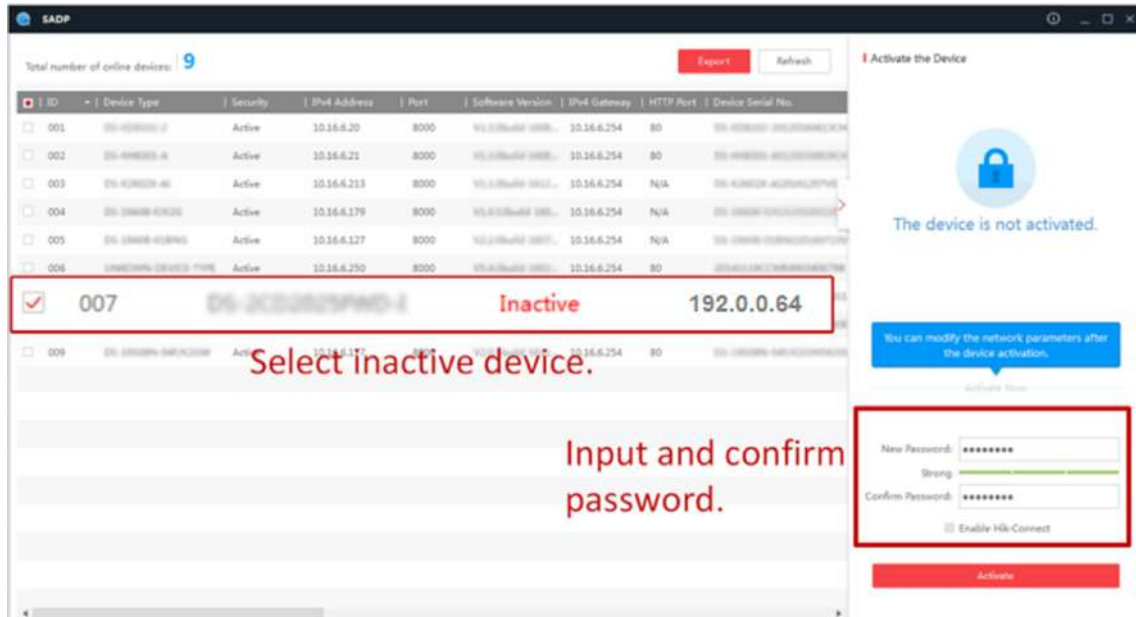
STRONG PASSWORD RECOMMENDED-We highly recommend you create a strong password of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you reset your password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



Note

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

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



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

5. Modify IP address of the device.

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

5.4 Activate Device via iVMS-4200 Client Software


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

Steps



Note

This function should be supported by the device.

1. Enter the Device Management page.
2. Click  on the right of **Device Management** and select **Device**.
3. Click **Online Device** to show the online device area.
The searched online devices are displayed in the list.
4. Check the device status (shown on **Security Level** column) and select an inactive device.
5. Click **Activate** to open the Activation dialog.
6. Create a password in the password field, and confirm the password.



Caution

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

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



Note

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

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

Chapter 6 Quick Operation

6.1 Select Language

You can select a language for the device system.

After the device activation, you can select a language for the device system.

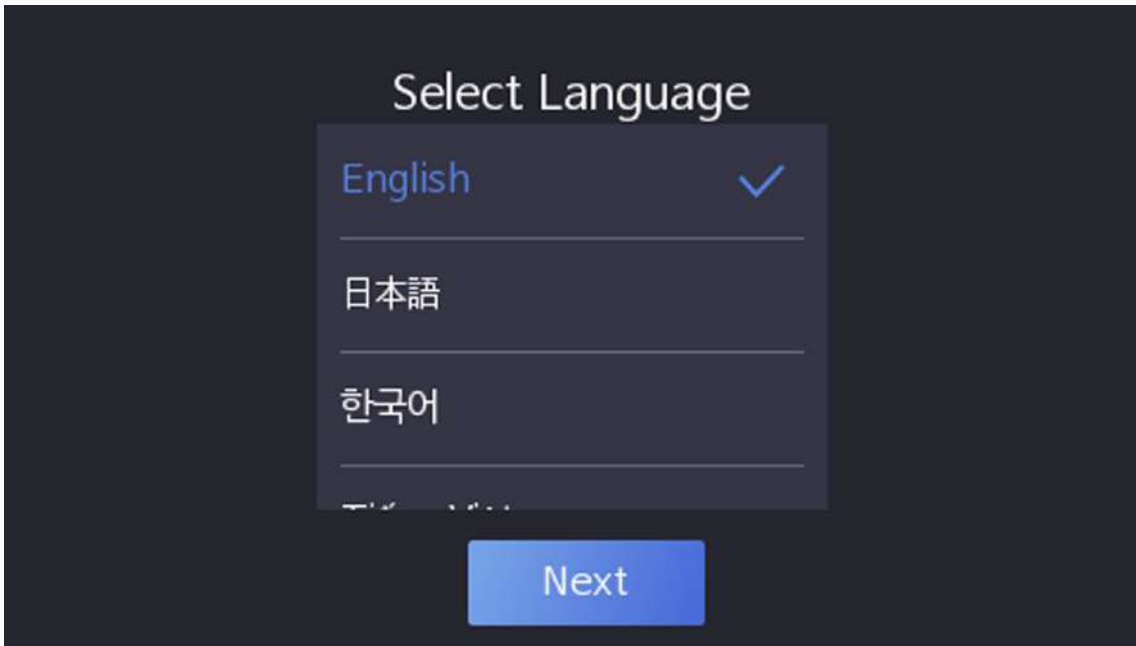


Figure 6-1 Select System Language

By default, the system language is English.



Note

After you change the system language, the device will reboot automatically.

6.2 Set Application Mode

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

Steps

1. On the Welcome page, select **Indoor** or **Others** from the drop-down list.

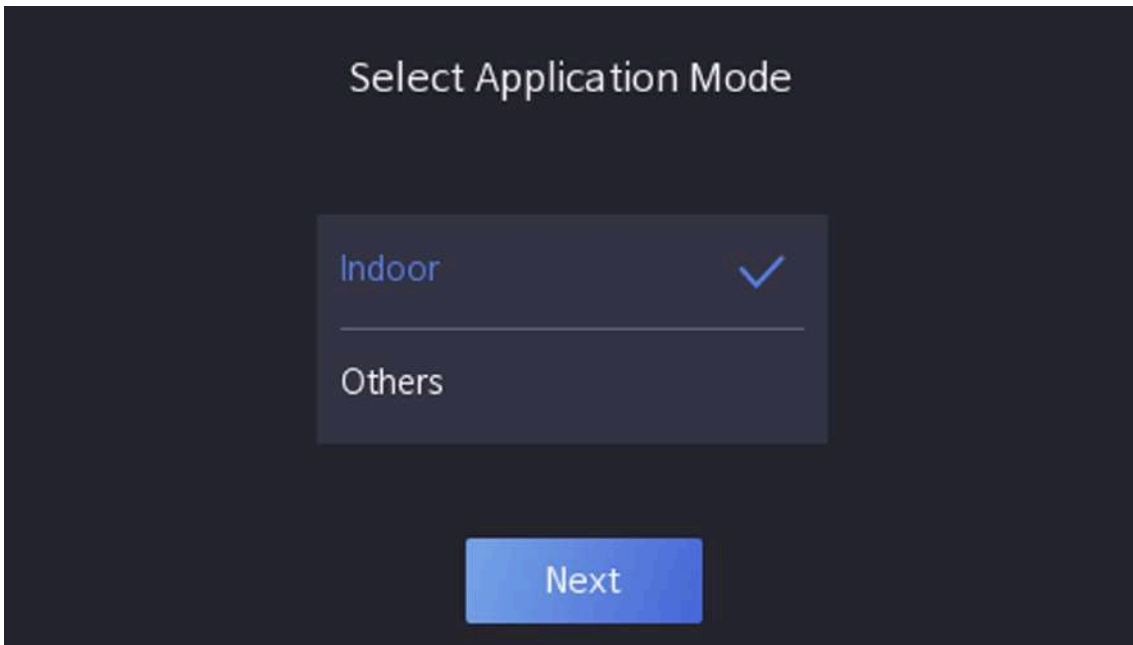


Figure 6-2 Welcome Page

2. Tap **OK** to save.

 **Note**

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

6.3 Set Network Parameters

After activation and select application mode, you can set the network for the device

Steps

1. When you enter the Select Network page, tap **Wired Network** or **Wi-Fi** for your actual needs.

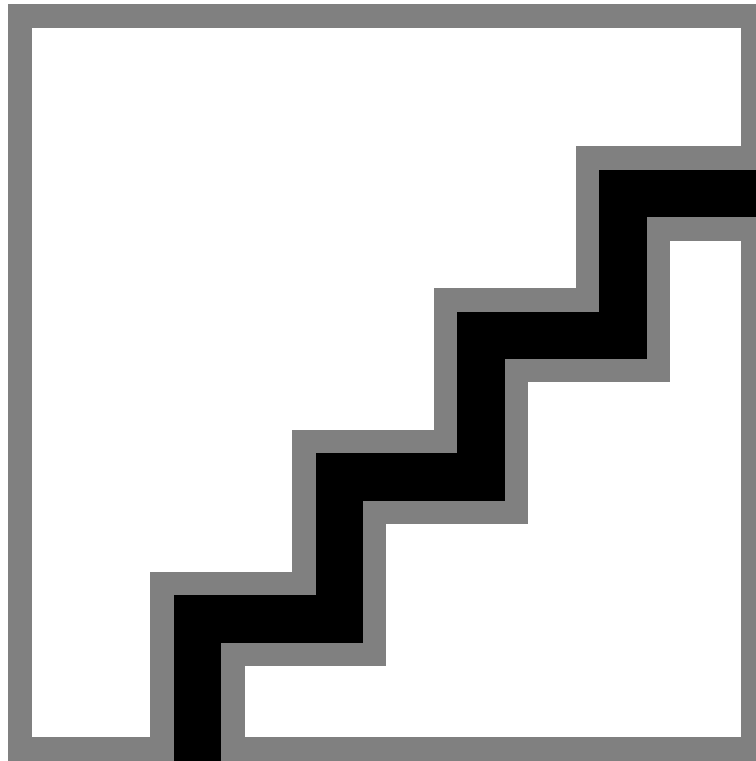


Figure 6-3 Select Network

 **Note**

Disconnect the wired network before connecting a Wi-Fi.

2. Tap Next.

Wired Network

 **Note**

Make sure the device has connected to a network.

If enable **DHCP**, the system will assign the IP address and other parameters automatically.

If disable **DHCP**, you should set the IP address, the subnet mask, and the gateway.

Wi-Fi

Select a Wi-Fi and enter the Wi-Fi's password to get connected.

Or tap **Add Wi-Fi** and enter the Wi-Fi's name and the password to get connected.

3. Optional: Tap Skip to skip network settings.

6.4 Access to Platform

Enable the function and the device can communicate via Hik-Connect. You can add the device to Hik-Connect mobile client and so on.

Steps

1. Enable **Access to Hik-Connect**, and set the Server IP and Verification Code.

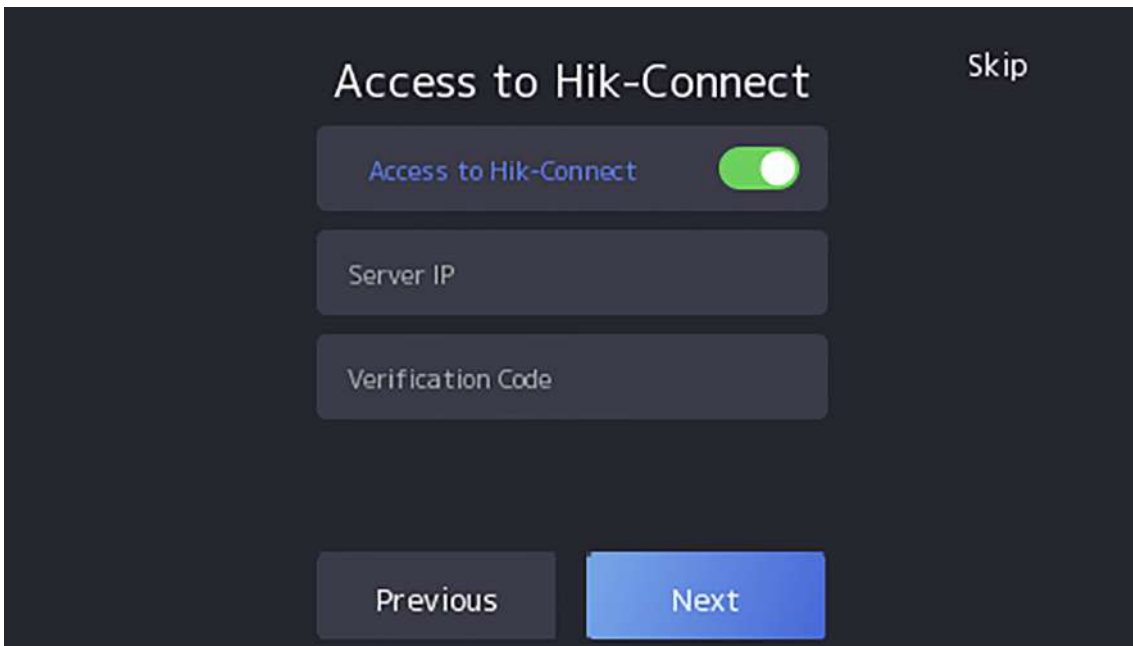


Figure 6-4 Access to Hik-Connect

2. Tap **Next**.

Note

If you tap **Previous** to return to the Wi-Fi configuration page, you need to tap the connected Wi-Fi or connect another Wi-Fi to enter the platform page again.

6.5 Privacy Settings

After activation, selecting application mode, and selecting network, you should set the privacy parameters, including the picture uploading and storage.

Select parameters according to your actual needs.

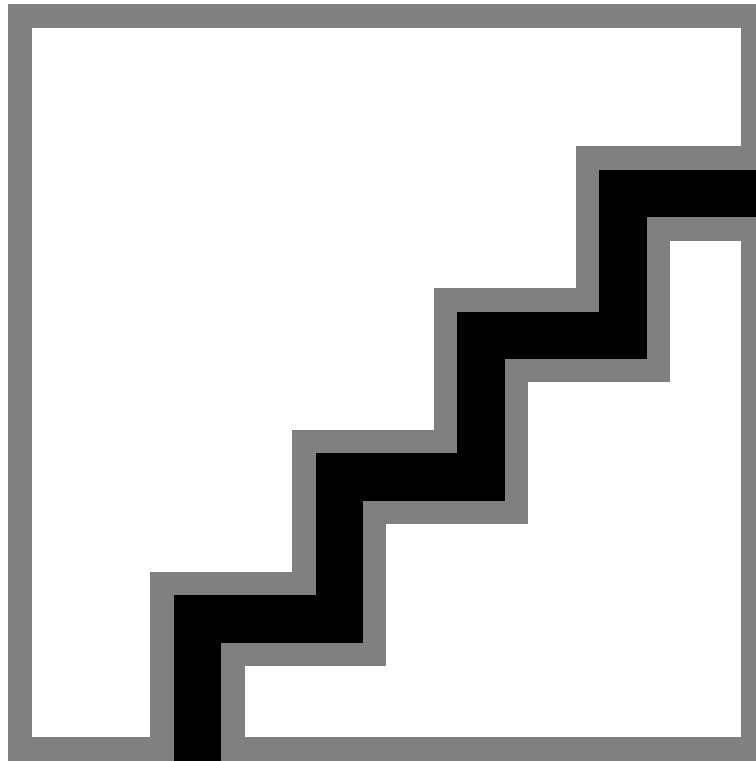


Figure 6-5 Privacy

Upload Captured Pic. When Auth. (Upload Captured Picture When Authenticating)

Upload the pictures captured when authenticating to the platform automatically.

Save Captured Pic. When Auth. (Save Captured Picture When Authenticating)

If you enable this function, you can save the picture when Authenticating to the device.

Save Registered Pic. (Save Registered Picture)

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

Upload Pic. After Linked Capture (Upload Picture After Linked Capture)

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

Save Pic. After Linked Capture (Save Pictures After Linked Capture)

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

Tap **Next** to complete the settings.

6.6 Set Administrator

After device activation, you can add an administrator to manage the device parameters.

Before You Start

Activate the device and select an application mode.

Steps

1. **Optional:** Tap **Skip** to skip adding administrator if required.
2. Enter the administrator's name (optional) and tap **Next**.

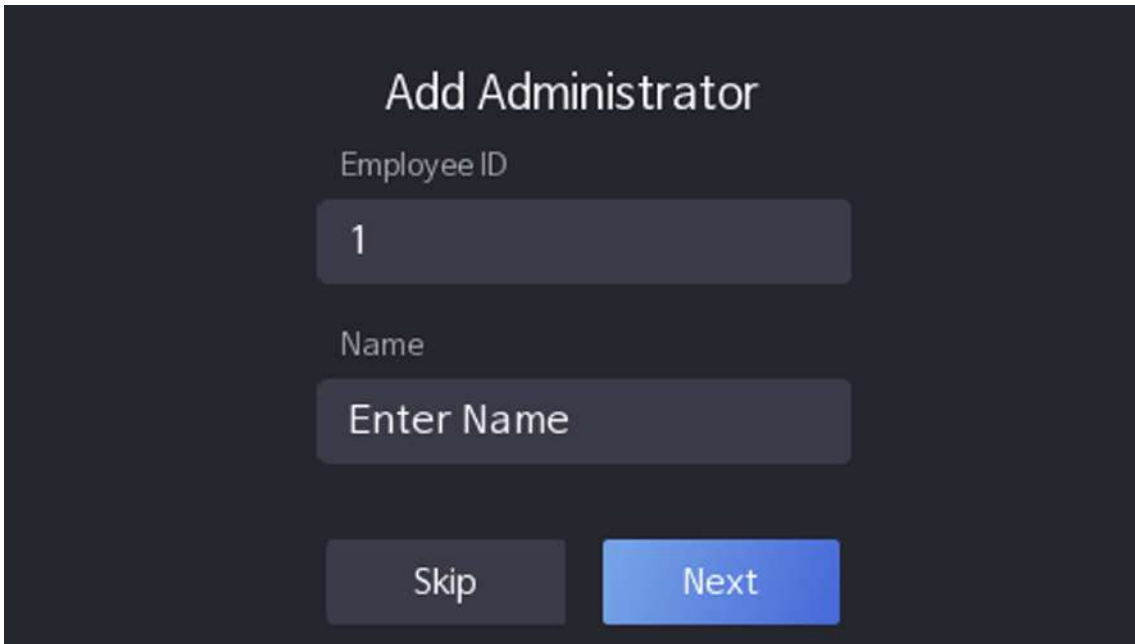








Figure 6-6 Add Administrator Page

3. Select a credential to add.

 **Note**

Up to one credential should be added.

-  : Face forward at the camera. Make sure the face is in the face recognition area. Click  to capture and click  to confirm.
-  : Press your finger according to the instructions on the device screen. Click  to confirm.
-  : Enter the card No. or present card on the card presenting area. Click **OK**.

4. Click **OK**.

You will enter the authentication page.

Status Icon Description



Device is armed/not armed.



Hik-Connect is enabled/disabled.



The device wired network is connected/not connected/connecting failed.



The device' Wi-Fi is enabled and connected/not connected/enabled but not connected.


Shortcut Keys Description



Note

You can configure those shortcut keys displayed on the screen. For details, see [***Basic Settings***](#) .



- Enter the device room No. and tap **OK** to call.
 - Tap  to call the center.
-



Note

The device should be added to the center, or the calling operation will be failed.



Enter PIN code to authenticate.

Chapter 7 Basic Operation

7.1 Login

Login the device to set the device basic parameters.

7.1.1 Login by Administrator

If you have added an administrator for the device, only the administrator can login the device for device operation.

Steps

1. Long tap on the initial page for 3 s and slide to the left/right by following the gesture to enter the admin login page.



Figure 7-1 Admin Login

2. Authenticate the administrator's face, fingerprint or card to enter the home page.

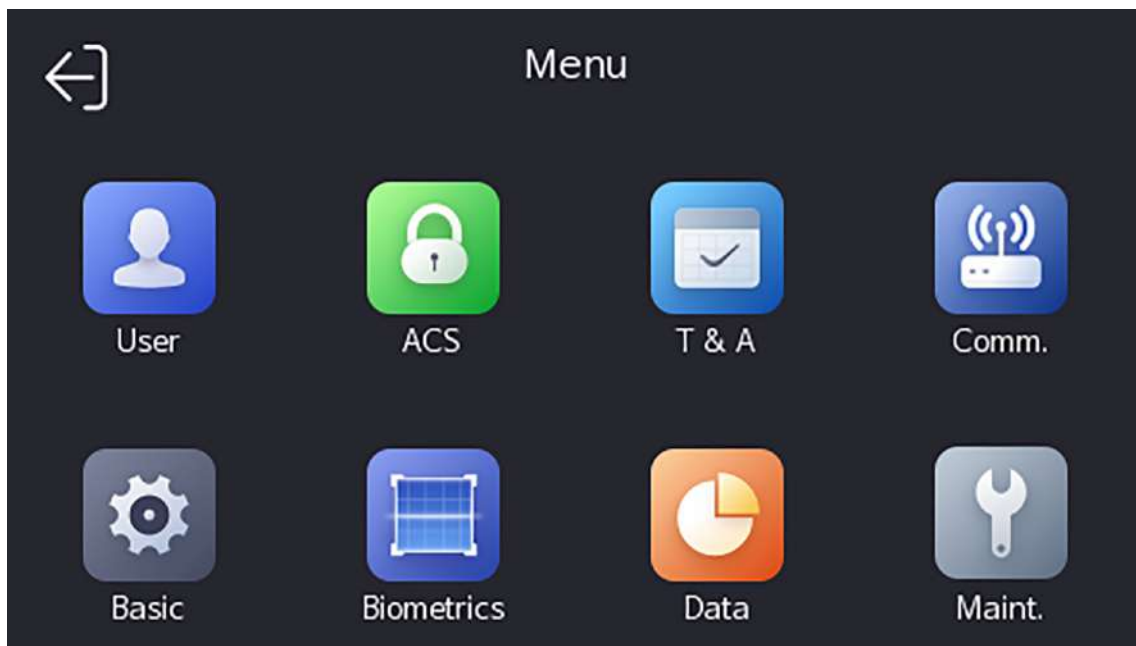




Figure 7-2 Home Page

 **Note**


The device will be locked for 30 minutes after 5 failed fingerprint or card attempts.

- 3. Optional:** Tap  and you can enter the device activation password for login.
- 4. Optional:** Tap  and you can exit the admin login page.

7.1.2 Login by Activation Password

You should login the system before other device operations. If you do not configure an administrator, you should follow the instructions below to login.

Steps

1. Long tap on the initial page for 3 s and slide to the left/right by following the gesture to enter password entering page.
2. Enter the password.
 - If you have added an administrator for the device, tap  and enter the password.
 - If you haven't added an administrator for the device, enter the password.
3. Tap **OK** to enter the home page.

 **Note**

The device will be locked for 30 minutes after 5 failed password attempts.

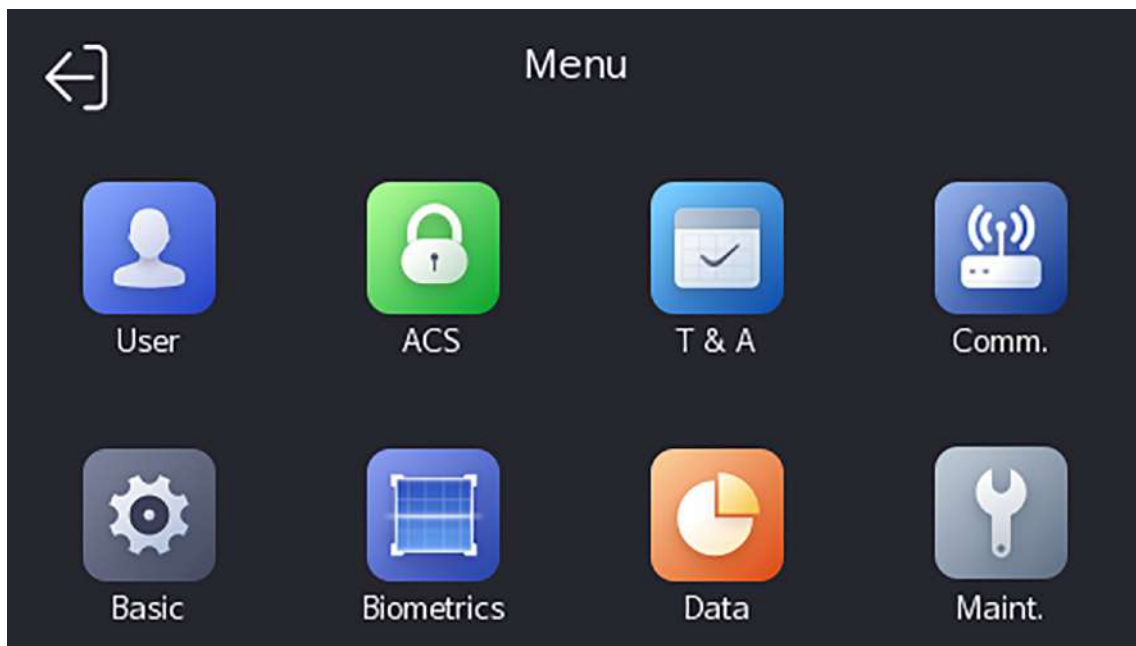



Figure 7-3 Home Page

7.1.3 Forgot Password

If you forget the password during authentication, you can reset the password by importing the key.

Steps

1. Long tap on the initial page for 3 s and slide to the left/right by following the gesture and log in the page.
2. Tap  in the pop-up admin authentication page.
3. Plug USB flash drive into the USB interface.

Note

- The supported USB flash drive formats are FAT32 and exfat.
- The device supports 1 G to 32 G (including 1 G and 32 G) USB flash drive. Make sure that the free space of the USB flash drive is more than 512 M.

4. Tap **Export File**, and contact the technician to get the key, and enter the key in the export file.
5. Tap **Import File** to import the file with the key to the device.
6. Follow the prompts to reset the password.

7.2 Communication Settings

You can set the wired network, the Wi-Fi parameter, the RS-485 parameters, the Wiegand parameters, ISUP and access to Hik-Connect on the communication settings page.

7.2.1 Set Wired Network Parameters

You can set the device wired network parameters, including the IP address, the subnet mask, the gateway, and DNS parameters.

Steps

1. Tap **Comm.** (Communication Settings) on the Home page to enter the Communication Settings page.
2. On the Communication Settings page, tap **Wired Network**.

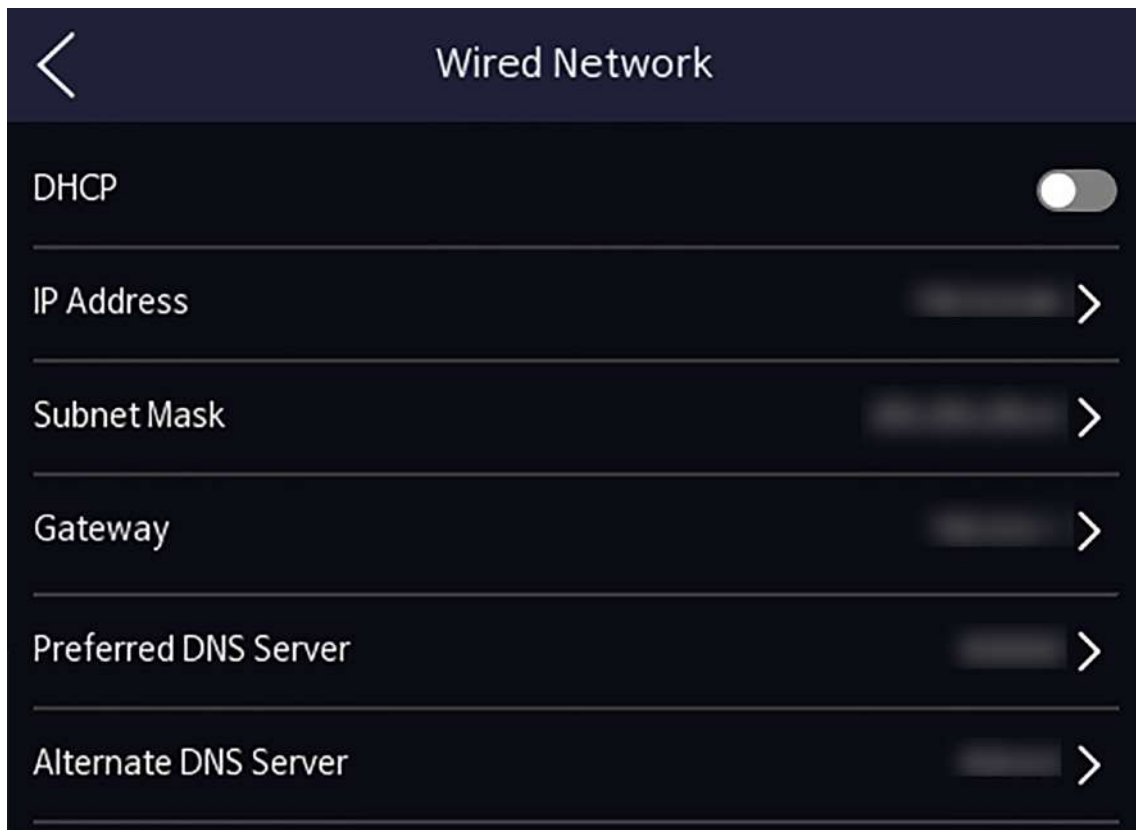


Figure 7-4 Wired Network Settings

3. Set IP Address, Subnet Mask, and Gateway.
 - Enable **DHCP**, and the system will assign IP address, subnet mask, and gateway automatically.
 - Disable **DHCP**, and you should set the IP address, subnet mask, and gateway manually.

 **Note**

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

4. Set the DNS parameters. You can enable **Auto Obtain DNS**, set the preferred DNS server and the alternate DNS server.

7.2.2 Set Wi-Fi Parameters

You can enable the Wi-Fi function and set the Wi-Fi related parameters.

Steps

Note

The function should be supported by the device.

1. Tap **Comm.** (Communication Settings) on the Home page to enter the Communication Settings page.
2. On the Communication Settings page, tap.

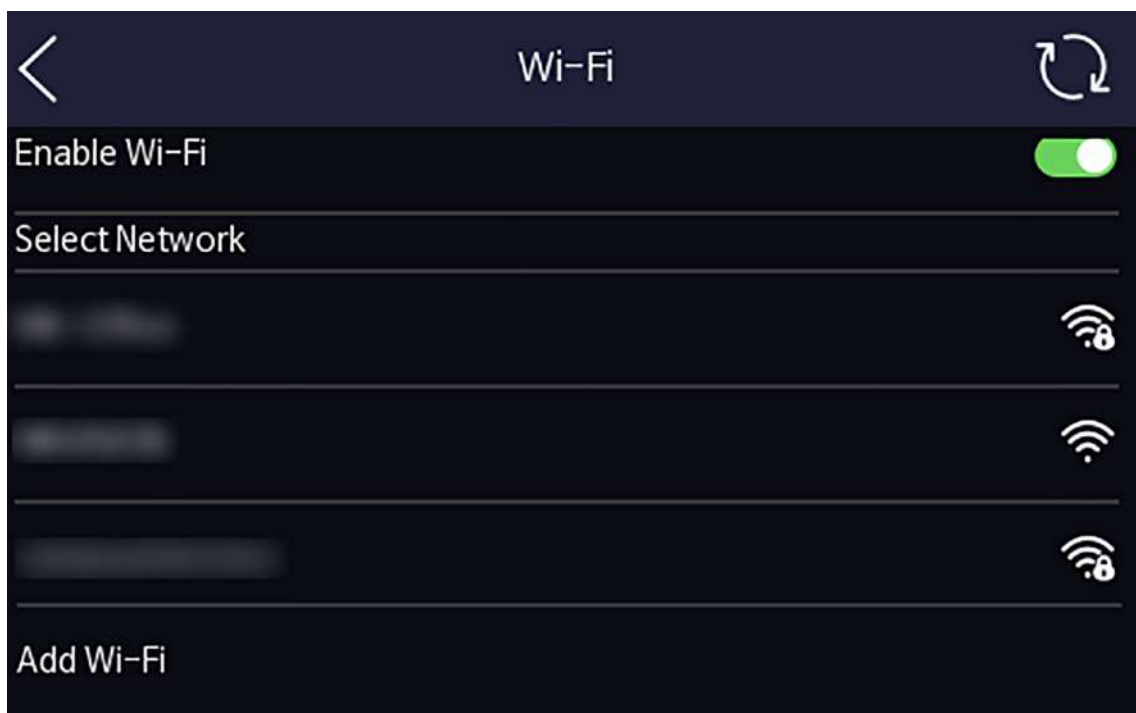


Figure 7-5 Wi-Fi Settings

3. Enable the Wi-Fi function.
4. Configure the Wi-Fi parameters.
 - Select a Wi-Fi from the list, and enter the Wi-Fi's password. Tap **OK**.
 - If the target Wi-Fi is not in the list, tap **Add Wi-Fi**. Enter the Wi-Fi's name and password. And tap **OK**.

Note

Only digits, letters, and special characters are allowed in the password.

5. Set the Wi-Fi's parameters.

- By default, DHCP is enable. The system will allocate the IP address, the subnet mask, and the gateway automatically.
 - If disable DHCP, you should enter the IP address, the subnet mask, and the gateway manually.
6. Tap **OK** to save the settings and go back to the Wi-Fi tab.
 7. Tap to save the network parameters.

7.2.3 Set RS-485 Parameters

The face recognition terminal can connect external access controller, secure door control unit or card reader via the RS-485 terminal.

Steps

1. Tap **Comm.** (Communication Settings) on the Home page to enter the Communication Settings page.
2. On the Communication Settings page, tap **RS-485** to enter the RS-485 tab.

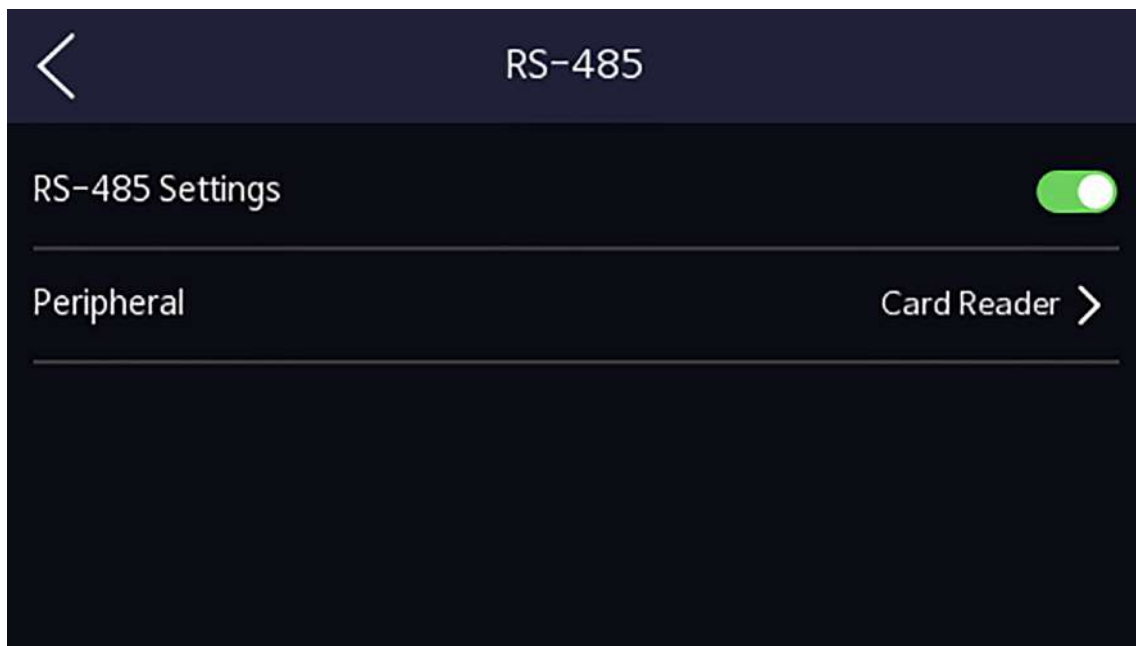


Figure 7-6 Set RS-485 Parameters

3. Select an peripheral type according to your actual needs.

Note

If you select **Access Controller**: If connect the device to a terminal via the RS-485 interface, set the RS-485 address as 2. If you connect the device to a controller, set the RS-485 address according to the door No.

4. Tap the back icon at the upper left corner and you should reboot the device if you change the parameters.

7.2.4 Set Wiegand Parameters

You can set the Wiegand transmission direction.

Steps

1. Tap **Comm.** (Communication Settings) on the Home page to enter the Communication Settings page.
2. On the Communication Settings page, tap **Wiegand** to enter the Wiegand tab.



Figure 7-7 Wiegand Settings

3. Enable the Wiegand function.
4. Select a transmission direction.
 - Output: A face recognition terminal can connect an external access controller. And the two devices will transmit the card No. via Wiegand 26 or Wiegand 34.
5. Tap to save the network parameters.

Note

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

7.2.5 Set ISUP Parameters

Set ISUP parameters and the device can upload data via ISUP protocol.

Before You Start

Make sure your device has connect to a network.

Steps

1. Tap **Comm.** → **ISUP** .

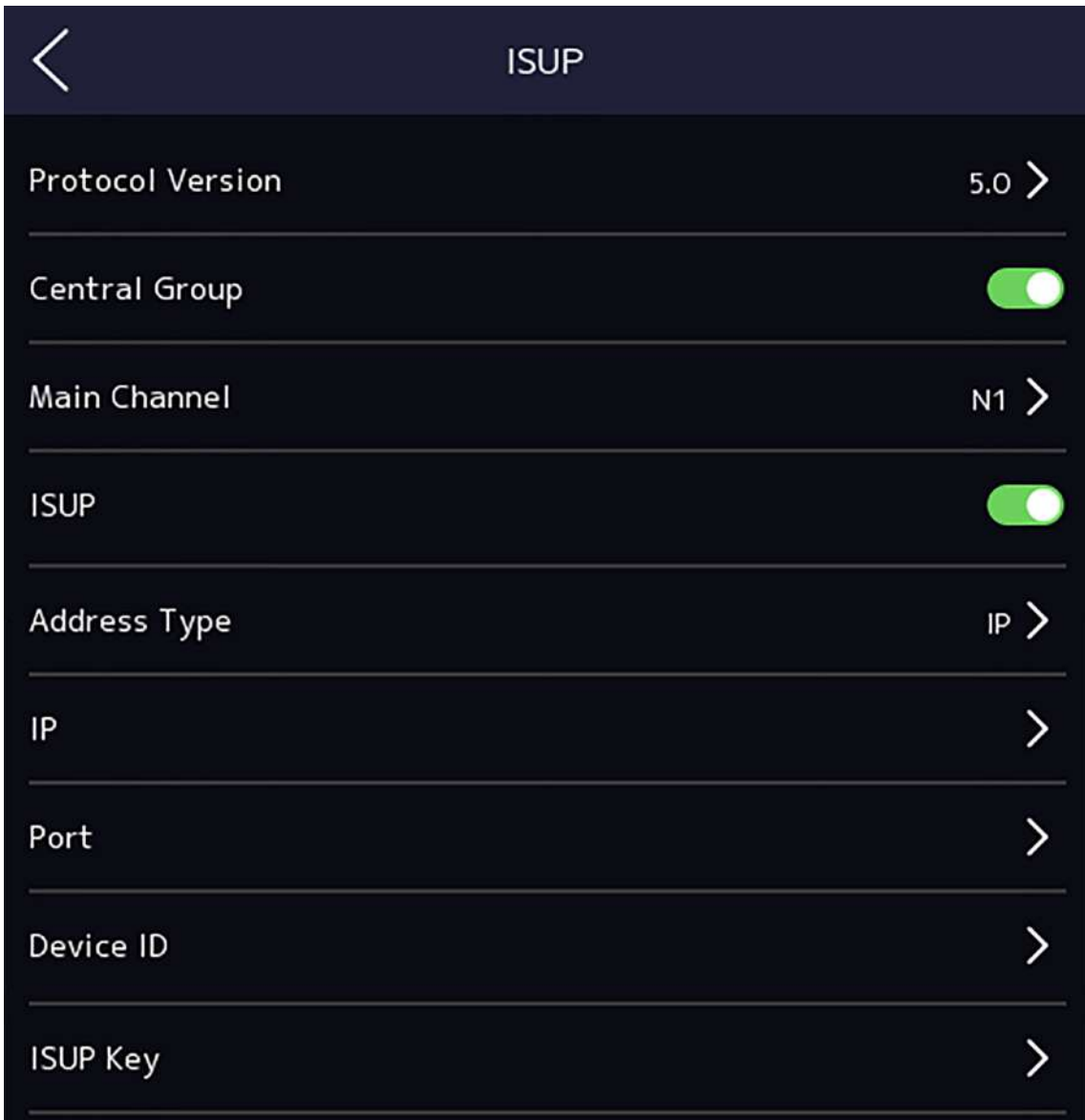


Figure 7-8 ISUP Settings

2. Enable the ISUP function and set the ISUP server parameters.

ISUP Version

Set the ISUP version according to your actual needs.

Central Group

Enable central group and the data will be uploaded to the center group.

Main Channel

Support N1 or None.

ISUP

Enable ISUP function and the data will be uploaded via EHome protocol.

Address Type

Select an address type according to your actual needs.

IP Address

Set the ISUP server's IP address.

Port No.

Set the ISUP server's port No.



Port No. Range: 0 to 65535.

Device ID

Set device serial no.

Password

If you choose V5.0, you should create an account and ISUP key. If you choose other version, you should create an ISUP account only.



- Remember the ISUP account and ISUP key. You should enter the account name or the key when the device should communicate with other platforms via ISUP protocol.
 - ISUP key range: 8 to 32 characters.
-

7.2.6 Platform Access

You can change the device verification code and set the server address before you add the device to the Hik-Connect mobile client.

Before You Start

Make sure your device has connected to a network.

Steps

1. Tap **Comm.** (Communication Settings) on the Home page to enter the Communication Settings page.
2. On the Communication Settings page, tap **Access to Hik-Connect**.
3. Enable **Access to Hik-Connect**
4. Enter **Server IP**.
5. Create the **Verification Code**, and you need to enter the verification code when you manage the devices via **Hik-Connect**.

7.3 User Management

On the user management interface, you can add, edit, delete and search the user.

7.3.1 Add Administrator

The administrator can log in the device backend and configure the device parameters.

Steps

1. Long tap on the initial page and log in the backend.
2. Tap **User** → + to enter the Add User page.

Add User	
Employee ID	2 >
Name	Not Configured >
Face	Not Configured >
Card	0/5 >
Fingerprint	0/10 >
PIN	Not Configured
Auth. Settings	Device Mode >
User Role	Normal User >

3. Edit the employee ID.



- The employee ID should be less than 32 characters. And it can be a combination of lower letters, upper letters, and numbers.
- The employee ID should not be duplicated.

4. Tap the Name field and input the user name on the soft keyboard.



- Numbers, upper case letters, lower case letters, and special characters are allowed in the user name.
- Up to 32 characters are allowed in the user name.

5. **Optional:** Add a face picture, fingerprints, cards, or Pin for the administrator.



- For details about adding a face picture, see [**Add Face Picture**](#) .



For details about adding a fingerprint, see [**Add Fingerprint**](#) .

- For details about adding a card, see [**Add Card**](#) .
- For details about adding a password, see [**View PIN code**](#) .

6. **Optional:** Set the administrator's authentication type.



For details about setting the authentication type, see [**Set Authentication Mode**](#) .

7. Enable the Administrator Permission function.

Enable Administrator Permission

The user is the administrator. Except for the normal attendance function, the user can also enter the Home page to operate after authenticating the permission.

8. Tap  to save the settings.

7.3.2 Add Face Picture

Add user's face picture to the device. And the user can use the face picture to authenticate.

Steps



Up to 1500 face pictures can be added.

1. Long tap on the initial page for 3 s and slide to the left/right by following the gesture and log in the backend.
2. Tap **User** → **+** to enter the Add User page.
3. Edit the employee ID.

 **Note**

- The employee ID should be less than 32 characters. And it can be a combination of lower letters, upper letters, and numbers.
- The employee ID should not be duplicated.

4. Tap the Name field and input the user name on the soft keyboard.

 **Note**

- Numbers, upper case letters, lower case letters, and special characters are allowed in the user name.
- The suggested user name should be within 32 characters.

5. Tap the Face Picture field to enter the face picture adding page.

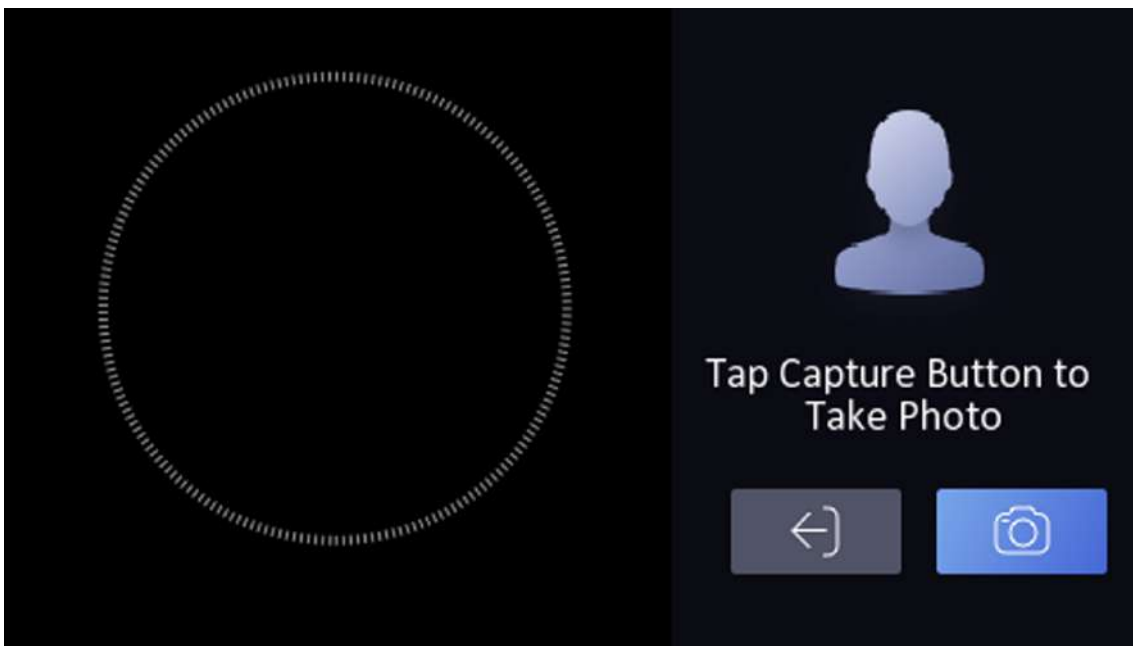


Figure 7-9 Add Face Picture

6. Look at the camera.

 **Note**

- Make sure your face picture is in the face picture outline when adding the face picture.
- Make sure the captured face picture is in good quality and is accurate.
- For details about the instructions of adding face pictures, see [***Tips When Collecting/Comparing Face Picture***](#) .

After completely adding the face picture, a captured face picture will be displayed at the upper right corner of the page.

7. Tap **Save** to save the face picture.

8. **Optional:** Tap **Try Again** and adjust your face position to add the face picture again.


9. Set the user role.

Administrator

The user is the administrator. Except for the normal attendance function, the user can also enter the Home page to operate after authenticating the permission.

Normal User

The User is the normal user. The user can only authenticate or take attendance on the initial page.

10. Tap  to save the settings.

7.3.3 Add Fingerprint

Add a fingerprint for the user and the user can authenticate via the added fingerprint.

Steps

Note

- The function should be supported by the device.
 - Up to 3000 fingerprints can be added.
-

1. Long tap on the initial page for 3 s and slide to the left/right by following the gesture and enter the device backend.
 2. Tap **User** → **+** to enter the Add User page.
 3. Tap the Employee ID. field and edit the employee ID.
-

Note

- The employee ID should be less than 32 characters. And it can be a combination of lower letters, upper letters, and numbers.
 - The employee ID should not start with 0 and should not be duplicated.
-

4. Tap the Name field and input the user name on the soft keyboard.
-

Note

- Numbers, upper case letters, lower case letters, and special characters are allowed in the user name.
 - The suggested user name should be within 32 characters.
-

5. Tap the Fingerprint field to enter the Add Fingerprint page.
 6. Follow the instructions to add a fingerprint.
-

Note

- The same fingerprint cannot be repeatedly added.
 - Up to 10 fingerprints can be added for one user.
 - You can also use the client software or the fingerprint recorder to record fingerprints.
-

For details about the instructions of scanning fingerprints, see [*Tips for Scanning Fingerprint*](#) .

7. Set the user role.

Administrator

The user is the administrator. Except for the normal attendance function, the user can also enter the Home page to operate after authenticating the permission.

Normal User

The User is the normal user. The user can only authenticate or take attendance on the initial page.

8. Tap to save the settings.

7.3.4 Add Card

Add a card for the user and the user can authenticate via the added card.

Steps

Note

Up to 3000 cards can be added.

1. Long tap on the initial page for 3 s and slide to the left/right by following the gesture and log in the backend.
 2. Tap **User** → **+** to enter the Add User page.
 3. Connect an external card reader according to the wiring diagram.
 4. Tap the Employee ID. field and edit the employee ID.
-

Note

- The employee ID should be less than 32 characters. And it can be a combination of lower letters, upper letters, and numbers.
 - The employee ID should not be duplicated.
-

5. Tap the Name field and input the user name on the soft keyboard.
-

Note

- Numbers, upper case letters, lower case letters, and special characters are allowed in the user name.
 - The suggested user name should be within 32 characters.
-

6. Tap the Card field and tap **+**.
 7. Configure the card No.
 - Enter the card No. manually.
 - Present the card over the card presenting area to get the card No.
-

 **Note**

- The card No. cannot be empty.
 - Up to 20 characters are allowed in the card No.
 - The card No. cannot be duplicated.
-

8. Configure the card type.


9. Set the user role.

Administrator

The user is the administrator. Except for the normal attendance function, the user can also enter the Home page to operate after authenticating the permission.

Normal User

The User is the normal user. The user can only authenticate or take attendance on the initial page.

10. Tap  to save the settings.

7.3.5 View PIN code

Add a PIN code for the user and the user can authenticate via the PIN code.

Steps

1. Long tap on the initial page for 3 s and slide to the left/right by following the gesture and log in the backend.
 2. Tap **User** → + to enter the Add User page.
 3. Tap the Employee ID. field and edit the employee ID.
-

 **Note**

- The employee ID should be less than 32 characters. And it can be a combination of lower letters, upper letters, and numbers.
 - The employee ID should not be duplicated.
-

4. Tap the Name field and input the user name on the soft keyboard.

 **Note**

- Numbers, upper case letters, lower case letters, and special characters are allowed in the user name.
 - The suggested user name should be within 32 characters.
-

5. Tap the PIN code to view the PIN code.

 **Note**

The PIN code cannot be edited. It can only be applied by the platform.

6. Set the user role.

Administrator

The user is the administrator. Except for the normal attendance function, the user can also enter the Home page to operate after authenticating the permission.

Normal User

The User is the normal user. The user can only authenticate or take attendance on the initial page.

7. Tap  to save the settings.

7.3.6 Set Authentication Mode

After adding the user's face picture, password, or other credentials, you should set the authentication mode and the user can authenticate his/her identity via the configured authentication mode.

Steps

1. Long tap on the initial page for 3 s and slide to the left/right by following the gesture and log in the backend.
2. Tap **User** → **Add User/Edit User** → **Authentication Mode** .
3. Select Device or Custom as the authentication mode.

Device

If you want to select device mode, you should set the terminal authentication mode in Access Control Settings page first. For details see *Setting Access Control Parameters*.

Custom


You can combine different authentication modes together according to your actual needs.

4. Tap  to save the settings.


7.3.7 Search and Edit User

After adding the user, you can search the user and edit it.

Search User

On the User Management page, Tap the search area to enter the Search User page. Tap **Card** on the left of the page and select a search type from the drop-down list. Enter the employee ID, card No., or the user name for search. Tap  to search.

Edit User

On the User Management page, select a user from the user list to enter the Edit User page. Follow the steps in *User Management* to edit the user parameters. Tap  to save the settings.



Note

The employee ID cannot be edited.

7.4 Data Management

You can delete data, import data, and export data.

7.4.1 Delete Data

Delete user data.

On the Home page, tap **Data → Delete Data → User Data** . All user data added in the device will be deleted.

7.4.2 Import Data

Steps

1. Plug a USB flash drive in the device.
2. On the Home page, tap **Data → Import Data** .
3. Tap **User Data, Face Data** or **Access Control Parameters** .

Note

The imported access control parameters are configuration files of the device.

4. Enter the created password when you exported the data. If you do not create a password when you exported the data, leave a blank in the input box and tap **OK** immediately.

Note

- If you want to transfer all user information from one device (Device A) to another (Device B), you should export the information from Device A to the USB flash drive and then import from the USB flash drive to Device B. In this case, you should import the user data before importing the profile photo.
 - The supported USB flash drive format is FAT32.
 - The imported pictures should be saved in the folder (named enroll_pic) of the root directory and the picture's name should be follow the rule below:
Card No._Name_Department_Employee ID_Gender.jpg
 - If the folder enroll_pic cannot save all imported pictures, you can create another folders, named enroll_pic1, enroll_pic2, enroll_pic3, enroll_pic4, under the root directory.
 - The employee ID should be less than 32 characters. It can be a combination of lower letters, upper letters, and numbers. It should not be duplicated, and should not start with 0.
 - Requirements of face picture should follow the rules below: It should be taken in full-face view, directly facing the camera. Do not wear a hat or head covering when taking the face picture. The format should be JPEG or JPG. The resolution should be 640 × 480 pixel or more than of 640 × 480 pixel. The picture size should be between 60 KB and 200 KB.
-

7.4.3 Export Data

Steps

1. Plug a USB flash drive in the device.
 2. On the Home page, tap **Data** → **Export Data** .
 3. Tap **Face Data**, **Event Data**, **User Data**, or **Access Control Parameters**.
-



The exported access control parameters are configuration files of the device.

4. **Optional:** Create a password for exporting. When you import those data to another device, you should enter the password.
-



- The supported USB flash drive format is DB.
 - The system supports the USB flash drive with the storage of 1G to 32G. Make sure the free space of the USB flash drive is more than 512M.
 - The exported user data is a DB file, which cannot be edited.
-

7.5 Identity Authentication

After network configuration, system parameters configuration and user configuration, you can go back to the initial page for identity authentication. The system will authenticate person according to the configured authentication mode.

7.5.1 Authenticate via Single Credential

Set the user authentication type before authentication. For details, see [***Set Authentication Mode***](#) .
Authenticate face, fingerprint or card.

Face

Face forward at the camera and start authentication via face.

Fingerprint

Place the enrolled fingerprint on the fingerprint module and start authentication via fingerprint.

Card

Present the card on the card presenting area and start authentication via card.



The card can be normal IC card, or encrypted card.

PIN Code

Enter the pin code to authenticate via PIN code.

If authentication completed, a prompt "Authenticated" will pop up.

7.5.2 Authenticate via Multiple Credential

Before You Start

Set the user authentication type before authentication. For details, see **Set Authentication Mode**.

Steps

1. If the authentication mode is Card and Face, Password and Face, Card and Password, Card and Face and Fingerprint, authenticate any credential according to the instructions on the live view page.



- The card can be normal IC card, or encrypted card.

2. After the previous credential is authenticated, continue authenticate other credentials.



- For detailed information about scanning fingerprint, see *Tips for Scanning Fingerprint*.
- For detailed information about authenticating face, see *Tips When Collecting/Comparing Face Picture*.

If authentication succeeded, the prompt "Authenticated" will pop up.

7.6 Basic Settings

You can set the shortcut key, theme, voice, time, sleeping (s), wait to Logout (s), language, community No., building No., and Unit No.

Long tap on the initial page for 3 s and slide to the left/right by following the gesture and login the device home page. Tap **Basic**.

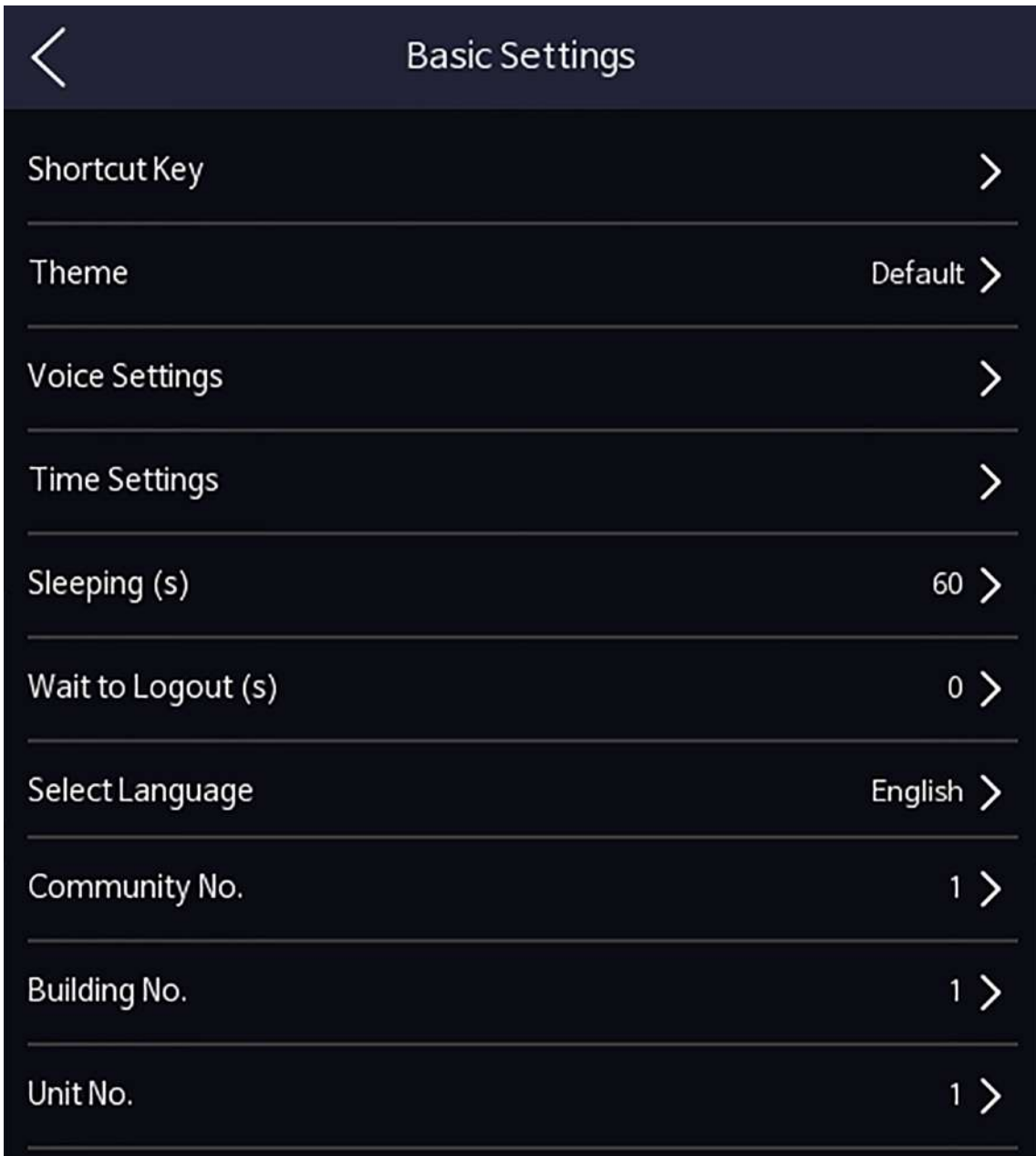


Figure 7-10 Basic Settings Page

Shortcut Key

Choose the shortcut key that displayed on the authentication page, including the QR code function, the call function, call type, and the password entering function.

Note

- If the combination authentication of face and QR code is supported, and the QR code shortcut key is disabled (there is no QR code shortcut key icon in the authentication page), you can scan the QR code in the middle of the authentication page to authenticate.
- You can select call type from **Call Room**, **Call Center**, and **Call Specified Room No.**

Call Room

When you tap the call button on the authentication page, you should dial a room No. to call.

Call Center

When you tap the call button on the authentication page, you can call the center directly.

Call Specified Room No.

You should set a room No. When you tap the call button on the authentication page, you can call the configured room directly without dialing.

Theme

You can set the theme of the prompt window on the authentication page. You can select **Theme** as **Default/Simple**. If select **Simple**, the live view of the authentication page will be disabled, and in the meanwhile, the person's name, employee ID, face pictures will all be hidden.

Voice Settings

You can enable/disable the voice prompt function and adjust the voice volume.

Note

You can set the voice volume between 0 and 10.

Time Settings

Set the time zone, the device time and the DST.

Sleeping (s)

Set the device sleeping waiting time (minute). When you are on the initial page and if you set the sleeping time to 30 min, the device will sleep after 30 min without any operation.

Note

If you set the sleeping time to 0, the device will not enter sleeping mode.

Wait to Logout (s)

If there is no operation within the configured time, the system will logout.

Select Language

Select the language according to actual needs.

Community No.

Set the device installed community No.

Building No.

Set the device installed building No.

Unit No.

Set the device installed unit No.

7.7 Set Biometric Parameters

You can customize the face parameters to improve the face recognition performance. The configurable parameters includes select application mode, face liveness level, face recognition distance, face recognition interval, face 1:N security level, face 1:1 security level, ECO settings and face with mask detection.

Long tap on the initial page for 3 s and login the home page. Tap **Biometric**.

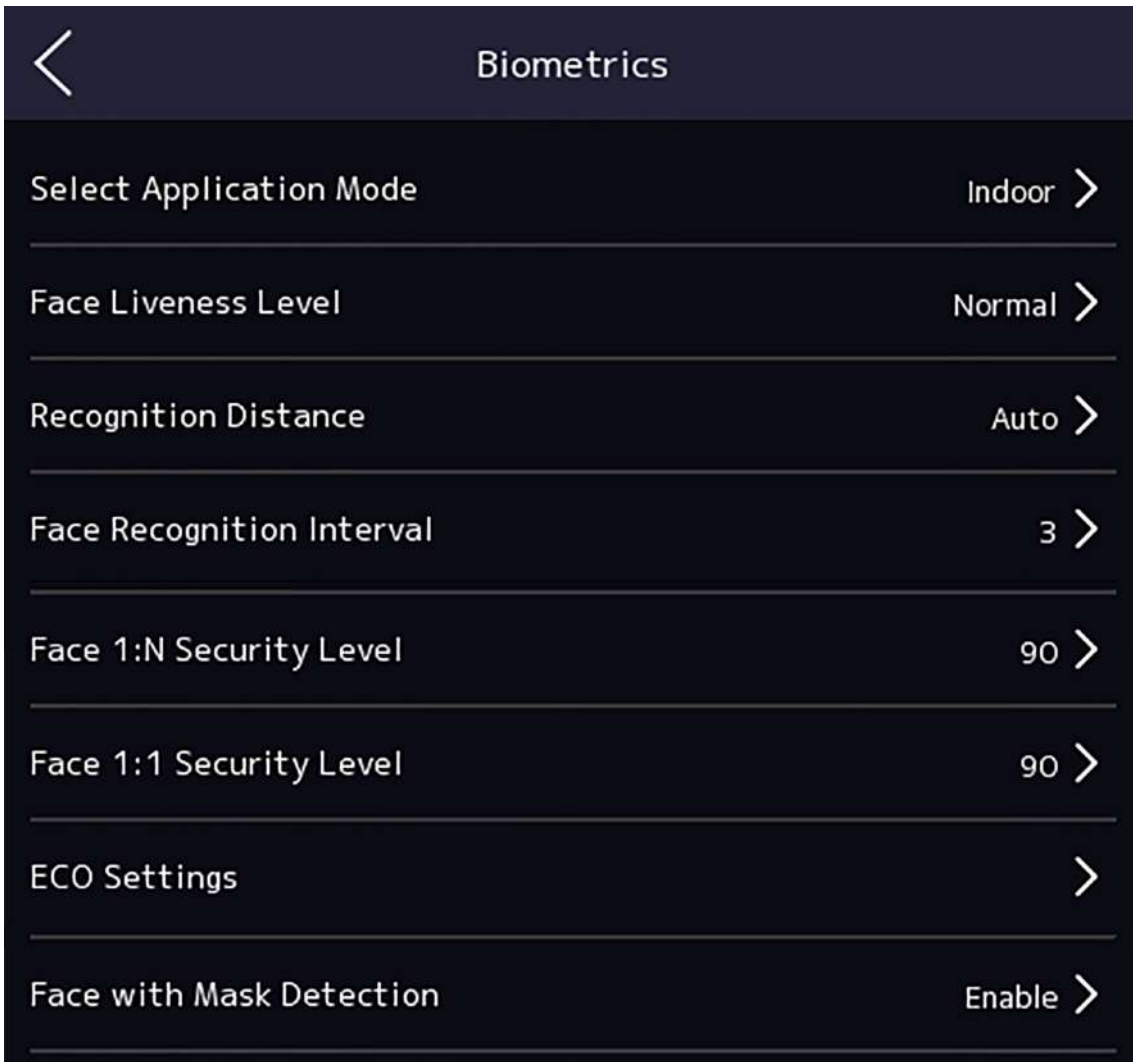



Figure 7-11 Biometric Parameters Page

Table 7-1 Face Picture Parameters

Parameter	Description
Select Application Mode	Select either others or indoor according to actual environment.
Face Liveness Level	After enabling face anti-spoofing function, you can set the matching security level when performing live face authentication.
Face Recognition Distance	Set the valid distance between the user and the camera when authenticating.

Parameter	Description
Face Recognition Interval	<p>The time interval between two continuous face recognitions when authenticating.</p> <p> Note You can input the number from 1 to 10.</p>
Face 1:N Security Level	<p>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.</p>
Face 1:1 Security Level	<p>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.</p>
ECO Settings	<p>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), ECO mode (1:1), Face with mask & face (1:1 ECO) and Face with mask & face (1:N ECO).</p> <p>ECO Threshold When enabling the ECO mode, you can set the ECO mode's threshold. The larger the value, the easier the device entering the ECO mode.</p> <p>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.</p> <p>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</p> <p>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.</p> <p>Face with Mask & Face (1:N ECO)</p>

Parameter	Description
	<p>Set the matching value 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.</p>
<p>Face with Mask Detection</p>	<p>After enabling the face with mask detection, the system will recognize the captured face with mask picture. You can set face with mask & face 1:N level and the strategy.</p> <p>Strategy</p> <p>Set the None, Reminder of Wearing and Must Wear strategy.</p> <p>Reminder of Wearing</p> <p>If the person do not wear a face mask when authenticating, the device prompts a notification and the door will open.</p> <p>Must Wear</p> <p>If the person do not wear a face mask when authenticating, the device prompts a notification and the door keeps closed.</p> <p>None</p> <p>If the person do not wear a face mask when authenticating, the device will not prompt a notification.</p> <p>Face with Mask & Face (1:1)</p> <p>Set the matching value when authenticating with face mask via 1:1 matching mode. The larger the value, the smaller the false accept rate and the larger the false rejection rate.</p> <p>Face with Mask & Face (1:N)</p> <p>Set the matching value 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.</p>

7.8 Set Access Control Parameters

You can set the access control permissions, including the functions of authentication mode, enable NFC card, enable M1 card, door contact, open duration (s) and authentication interval (s).

On the Home page, tap **ACS** (Access Control Settings) to enter the Access Control Settings page. Edit the access control parameters on this page.

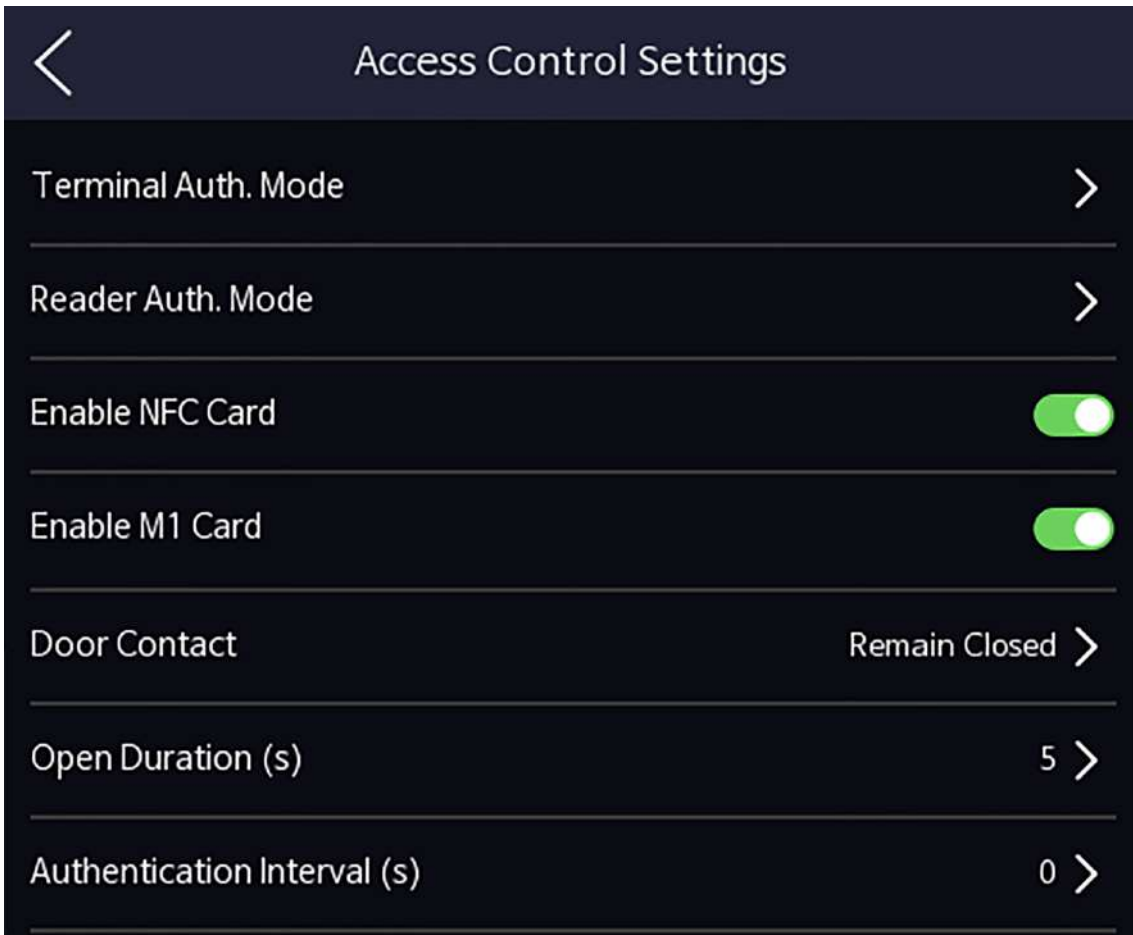



Figure 7-12 Access Control Parameters

The available parameters descriptions are as follows:

Table 7-2 Access Control Parameters Descriptions

Parameter	Description
Terminal Auth. Mode (Terminal Authentication Mode)	Select the face recognition terminal's authentication mode. You can also customize the authentication mode.

Parameter	Description
	 Note <ul style="list-style-type: none"> • Only the device with the fingerprint module supports the fingerprint related function. • Biometric recognition products are not completely applicable to anti-spoofing environments . If you require a higher security level, use multiple authentication modes. • If you adopt multiple authentication modes, you should authenticate other methods before authenticating face.
Reader Auth. Mode (Card Reader Authentication Mode)	Select the card reader's authentication mode.
Enable NFC Card	Enable the function and you can present the NFC card to authenticate.
Enable M1 Card	Enable the function and you can present the M1 card to authenticate.
Door Contact	You can select "Open (Remain Open)" or "Close (Remian Closed)" according to your actual needs. By default, it is Close (Remian Closed).
Open Duration	Set the door unlocking duration. If the door is not opened for the set time, the door will be locked. Available door locked time range: 1 to 255s.
Authentication Interval	Set the device authenticating interval. Available authentication interval range: 0 to 65535.

7.9 Time and Attendance Status Settings

You can set the attendance mode as check in, check out, break out, break in, overtime in, and overtime out according to your actual situation.

Note

The function should be used cooperatively with time and attendance function on the client software.

7.9.1 Disable Attendance Mode via Device

Disable the attendance mode and the system will not display the attendance status on the initial page.

Tap **T&A Status** to enter the T&A Status page.

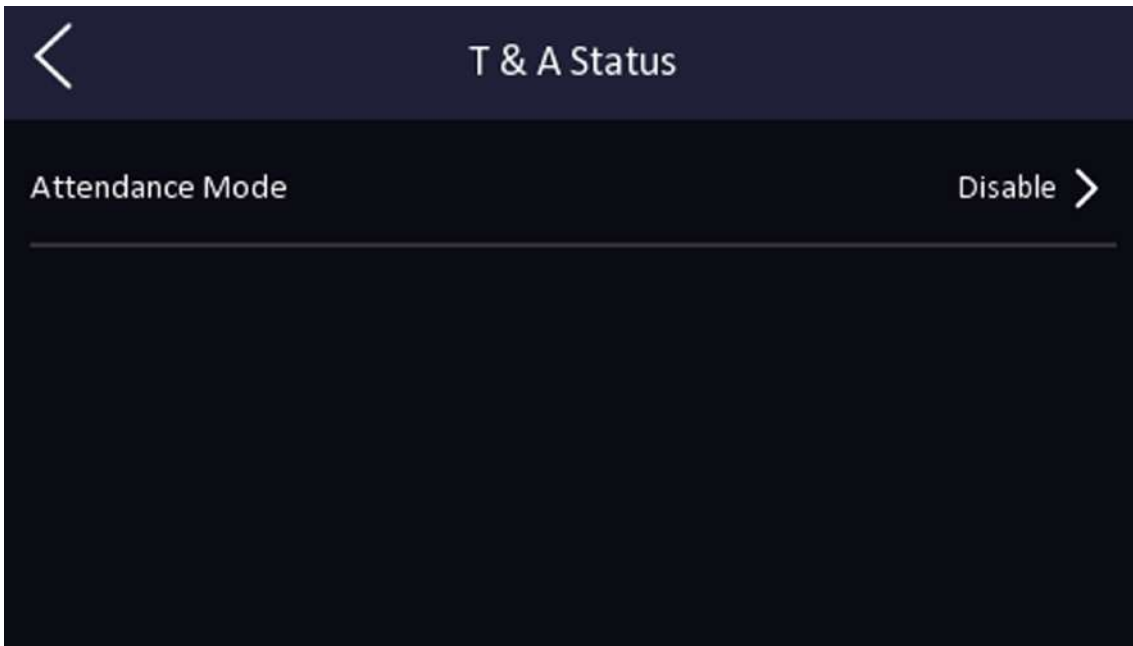


Figure 7-13 Disable Attendance Mode

Set the **Attendance Mode** as **Disable**.

You will not view or configure the attendance status on the initial page. And the system will follow the attendance rule that configured on the platform.

7.9.2 Set Manual Attendance via Device

Set the attendance mode as manual, and you should select a status manually when you take attendance.

Before You Start

Add at least one user, and set the user's authentication mode. For details, see *User Management*.

Steps

1. Tap **T&A Status** to enter the T&A Status page.
2. Set the **Attendance Mode** as **Manual**.

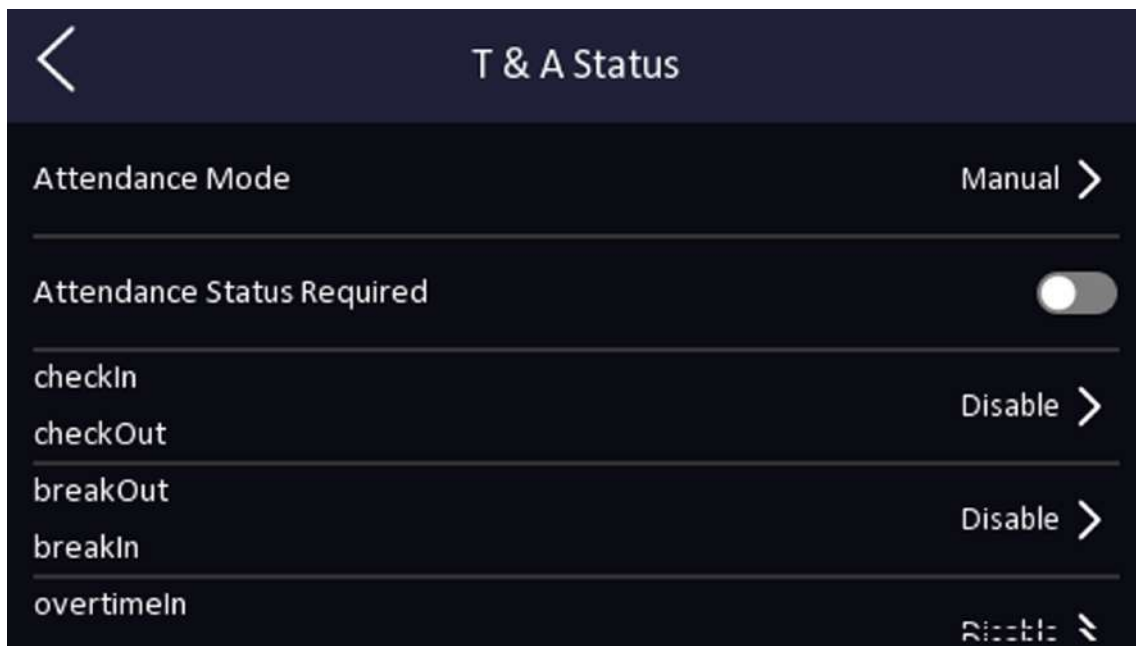


Figure 7-14 Manual Attendance Mode

3. Enable the **Attendance Status Required**.
4. Enable a group of attendance status.

 **Note**

The Attendance Property will not be changed.

5. **Optional:** Select an status and change its name if required.
The name will be displayed on the T & A Status page and the authentication result page.

Result

You should select an attendance status manually after authentication.

 **Note**

If you do not select a status, the authentication will be failed and it will not be marked as a valid attendance.

7.9.3 Set Auto Attendance via Device

Set the attendance mode as auto, and you can set the attendance status and its available schedule. The system will automatically change the attendance status according to the configured schedule.

Before You Start

Add at least one user, and set the user's authentication mode. For details, see *User Management*.

Steps

1. Tap **T&A Status** to enter the T&A Status page.
2. Set the **Attendance Mode** as **Auto**.

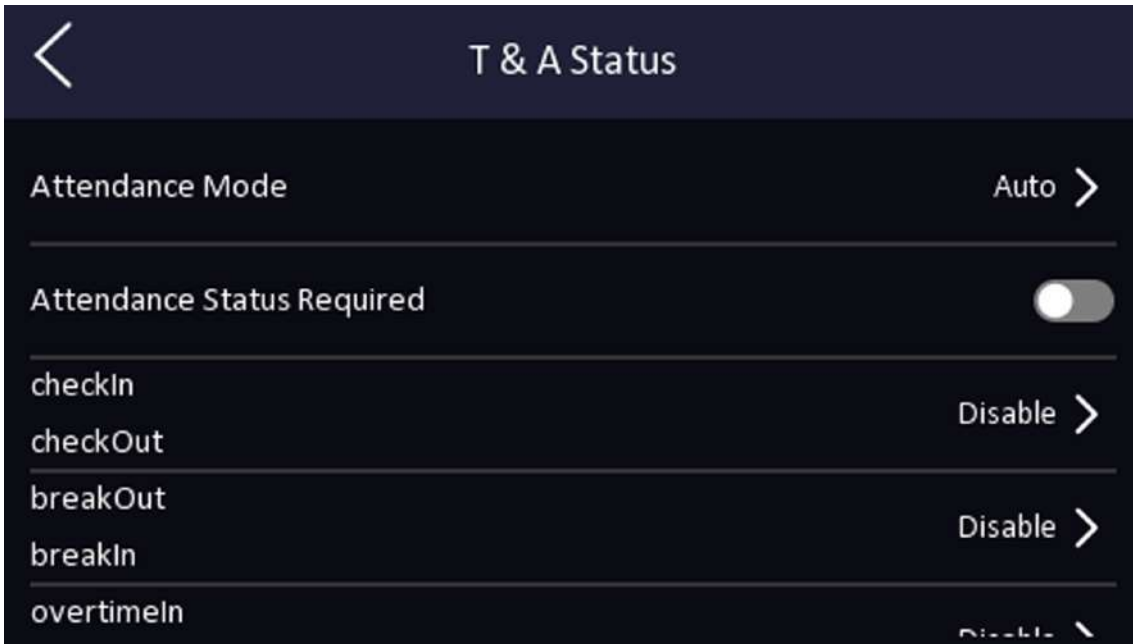


Figure 7-15 Auto Attendance Mode

3. Enable the **Attendance Status** function.
4. Enable a group of attendance status.

Note

The Attendance Property will not be changed.

5. **Optional:** Select an status and change its name if required.
The name will be displayed on the T & A Status page and the authentication result page.
6. Set the status' schedule.
 - 1) Tap **Attendance Schedule**.
 - 2) Select **Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, or Sunday**.
 - 3) Set the selected attendance status's start time of the day.
 - 4) Tap **Confirm**.
 - 5) Repeat step 1 to 4 according to your actual needs.

Note

The attendance status will be valid within the configured schedule.

Result

When you authenticate on the initial page, the authentication will be marked as the configured attendance status according to the configured schedule.

Example

If set the **Break Out** as Monday 11:00, and **Break In** as Monday 12:00, the valid user's authentication from Monday 11:00 to 12:00 will be marked as break.

7.9.4 Set Manual and Auto Attendance via Device

Set the attendance mode as **Manual and Auto**, and the system will automatically change the attendance status according to the configured schedule. At the same time you can manually change the attendance status after the authentication.

Before You Start

Add at least one user, and set the user's authentication mode. For details, see *User Management*.

Steps

1. Tap **T&A Status** to enter the T&A Status page.
2. Set the **Attendance Mode** as **Manual and Auto**.

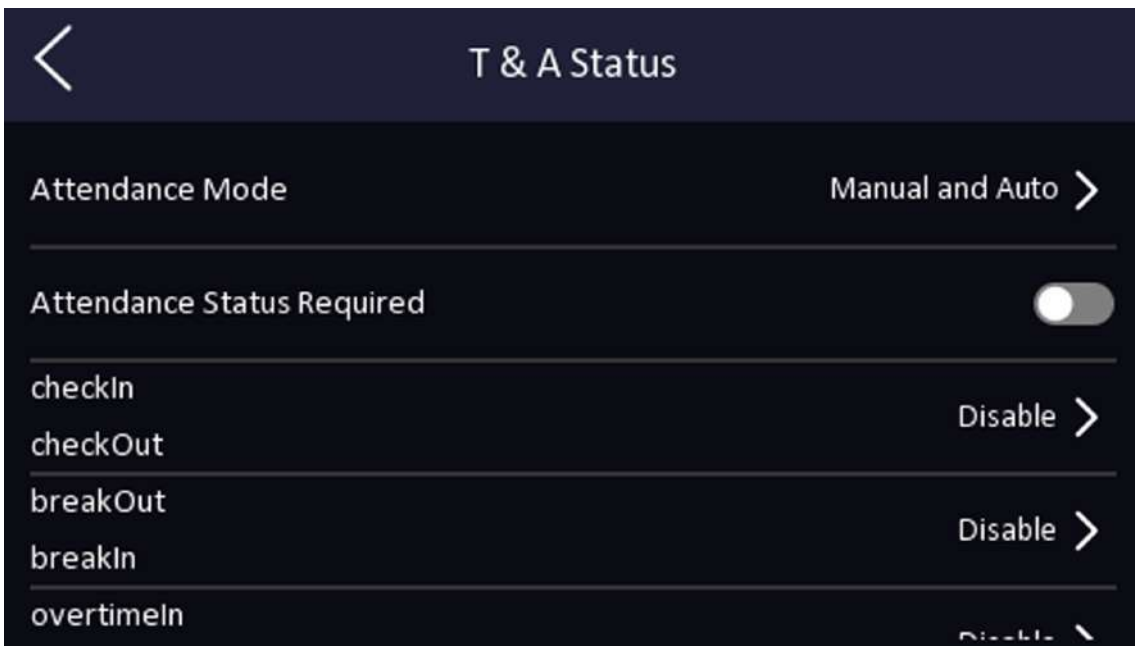


Figure 7-16 Manual and Auto Mode

3. Enable the **Attendance Status** function.
4. Enable a group of attendance status.

 **Note**

The Attendance Property will not be changed.

5. **Optional:** Select an status and change its name if required.

The name will be displayed on the T & A Status page and the authentication result page.

6. Set the status' schedule.

- 1) Tap **Attendance Schedule**.
- 2) Select **Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, or Sunday**.
- 3) Set the selected attendance status's start time of the day.
- 4) Tap **OK**.
- 5) Repeat step 1 to 4 according to your actual needs.



Note

The attendance status will be valid within the configured schedule.

Result

On the initial page and authenticate. The authentication will be marked as the configured attendance status according to the schedule. If you tap the edit icon on the result tab, you can select a status to take attendance manually, the authentication will be marked as the edited attendance status.

Example

If set the **Break Out** as Monday 11:00, and **Break In** as Monday 12:00, the valid user's authentication from Monday 11:00 to 12:00 will be marked as break.

7.10 System Maintenance

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

Long tap on the initial page for 3 s and login the home page. Tap **Maint**.

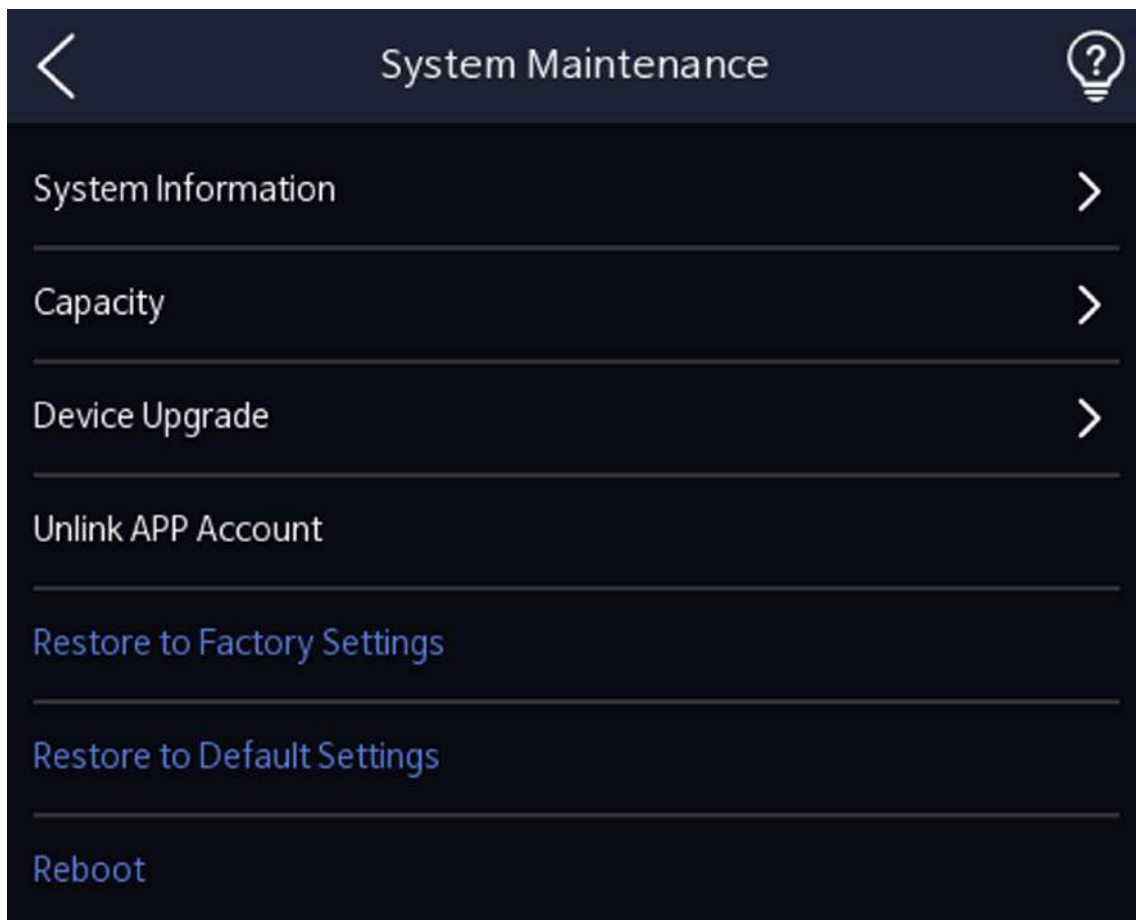


Figure 7-17 Maintenance Page

System Information

You can view the device information including serial No., firmware version, MCU version, MAC address, production data, device QR code, open source code license.

 **Note**

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

Capacity

You can view the number of administrator, user, face picture, card, and event.

 **Note**

Parts of the device models support displaying the fingerprint number. Refers to the actual page for details.

Upgrade

Plug the USB flash drive in the device USB interface. Tap **Upgrade** → **OK** , and the device will read the *digicap.dav* file in the USB flash drive to start upgrading.

Unlink APP Account

Unlink the Hik-Connect account from the platform.

Restore to Factory

All parameters will be restored to the factory settings. The system will reboot to take effect.


Restore to Default

All parameters, except for the communication settings, remotely imported user information, will be restored to the default settings. The system will reboot to take effect.

Reboot

The device will reboot after the confirmation.



Long tap  , and enter admin password to view device version information.

Chapter 8 Configure the Device via the Mobile Browser

8.1 Login

You can login via mobile browser.



- Parts of the model supports Wi-Fi settings.
- Make sure the device is activated.

Obtain the IP address from the device after Wi-Fi is enabled. Make sure the IP segment of the device and the computer is the same. For details, refers to ***Set Wi-Fi Parameters*** .

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

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

8.2 Search Event

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

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



Support searching for names within 32 digits.

The results will be displayed in the list.

8.3 User Management

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

Steps

1. Tap **User** to enter the settings page.
2. Add user.
 - 1) Tap+.

Add Person	
Basic Information	
* Employee ID	
Name	
Gender	none >
User Role	Normal User >
Face	0 >
Fingerprint	0 >
Authentication Settings	
Administrator	<input type="checkbox"/>
Authentication Type	The Same Device >
Save	

Figure 8-1 Add User

2) Set the following parameters.

Employee ID

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

Name

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

User Role

Select your user role.

Floor No./Room No.

Enter the floor No./room No.

Face

Add Face picture. Tap **Face**, then tap **Import**, and select the mode to import the face.

Fingerprint

Add fingerprint. Tap **Fingerprint**, then tap **+**, and add fingerprint via the fingerprint module.

Start Date/End Date

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


Administrator

If the user needs to be set as administrator, you can enable **Administrator**.

Authentication Type

Set the authentication type.

3) Tap **Save**.

3. Tap the user that needs to be edited in the user list to edit the information.
4. Tap the user that needs to be deleted in the user list, and tap  to delete the user.
5. You can search the user by entering the employee ID or name in the search bar.

8.4 Configuration

8.4.1 View Device Information

View the device name, language, model, serial No., QR code, version, etc.

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

You can view the device name, language, model, serial No., QR code, version, etc.

8.4.2 Time Settings

Set the time zone, time sync. mode, and displayed time.

Tap **Configuration** → **System** → **System Settings** → **Time Settings** to enter the settings page.

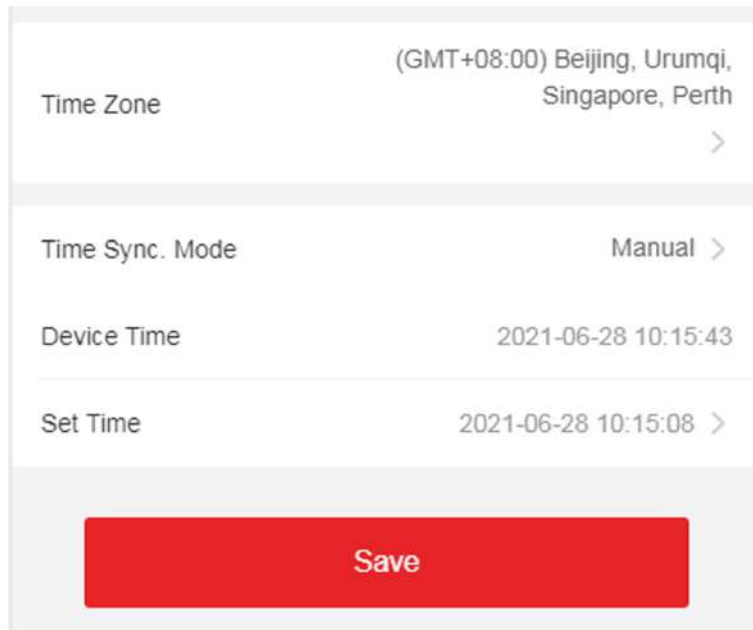


Figure 8-2 Time Settings

Tap **Save** to save the settings.

Time Zone

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

Time Sync. Mode

Manual

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

NTP

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

8.4.3 View Open Source Software License

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

8.4.4 Network Settings

You can set the port and Wi-Fi parameters.

Set Port Parameters

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

Tap **Configuration** → **Network** → **Basic Settings** → **Port** , to enter the settings page.

HTTP

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

RTSP

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

HTTPS

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

Server

It refers to the port through which the client adds the device.

Set Wi-Fi Parameters

Set the Wi-Fi parameters for device wireless connection.

Steps



Note

The function should be supported by the device.

1. Tap **Configuration** → **Network** → **Basic Settings** → **Wi-Fi** to enter the settings page.
2. Check **Enable Wi-Fi**.

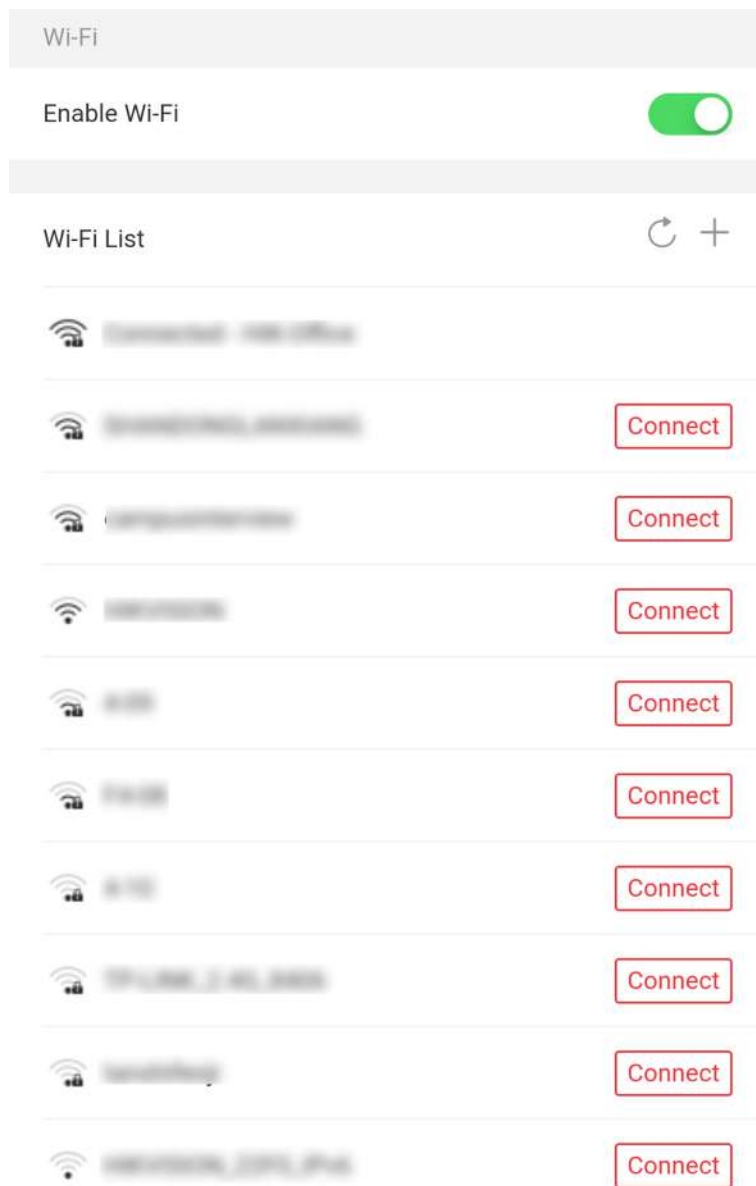


Figure 8-3 Wi-Fi

3. Add Wi-Fi.
 - 1) Tap +.

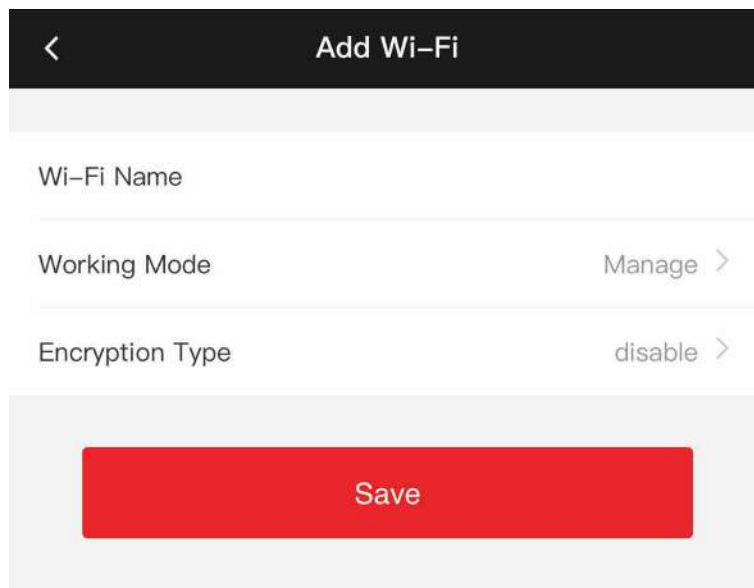


Figure 8-4 Add Wi-Fi

- 2) Enter **Wi-Fi Name** and **Wi-Fi Password**, and select **Working Mode** and **Encryption Type**.
- 3) Tap **Save**.
4. Select the Wi-Fi name, and tap **Connect**.
5. Enter the password and tap **Save**.
6. Set WLAN parameters.
 - 1) Set the IP address, subnet mask, and gateway. Or enable DHCP and the system will allocate the IP address, subnet mask, and gateway automatically.
 - 2) Tap **Save**.

8.4.5 General Settings

Set Authentication Parameters

Set Authentication Parameters.

Steps

1. Tap **Configuration** → **General Settings** → **Authentication Settings** .

Device Type	Main Card Reader >
Card Reader Type	fingerPrint/Face
Card Reader Description	
Enable Card Reader	<input checked="" type="checkbox"/>
Authentication	Card or Face or Fingerprint >
Recognition Interval(s)	1
Minimum Card Swiping Interval(s)	22
Alarm of Max. Failed Attempts	<input type="checkbox"/>
Max. Authentication Failed Attempts	5
Enable Tampering Detection	<input checked="" type="checkbox"/>
Enable Card No. Reversing	<input type="checkbox"/>
Enable Tampering Detection	<input checked="" type="checkbox"/>
Enable Card No. Reversing	<input type="checkbox"/>
<input type="button" value="Save"/>	

Figure 8-5 Authentication Settings

2. Tap **Save**.

Device Type

Main Card Reader

You can configure the device card reader's parameters. If you select main card reader, you need to configure the following parameters: **Card Reader Type**, **Card Reader Description**, **Enable Card Reader**, **Authentication**, **Recognition Interval (s)**, **Minimum Card Swiping Interval (s)**, **Max. Authentication Failed Attempts Alarm/Alarm of Max. Failed Attempts**, **Enable Tampering Detection** and **Enable Card No. Reversing**.

Sub Card Reader

You can configure the connected peripheral card reader's parameters. If you select sub card reader, you need to configure the following parameters: **Card Reader Type**, **Card Reader Description**, **Enable Card Reader**, **Authentication**, **Recognition Interval (s)**, **Max. Authentication Failed Attempts Alarm/Alarm of Max. Failed Attempts**, **Enable Tampering Detection**, **Communication with Controller Every (s)** and **Max. Interval When Entering Password (s)**.

Card Reader Type

Get card reader type.

Card Reader Description

Get card reader description. It is 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

If the interval between card presenting of the same card is less than the configured value, the card presenting is invalid. The interval time range is from 0 to 255 seconds (When set to 0, it means that recognition interval is not enabled, and the same authentication can be used for unlimited times).

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.

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

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

Enable Tampering Detection

Enable the anti-tamper detection for the card reader.

Enable Card No. Reversing

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

Communication with Controller Every (s)

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

Max. Interval When Entering Password (s)

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.

Set Privacy Parameters

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

Tap **Configuration** → **General Settings** → **Privacy** .

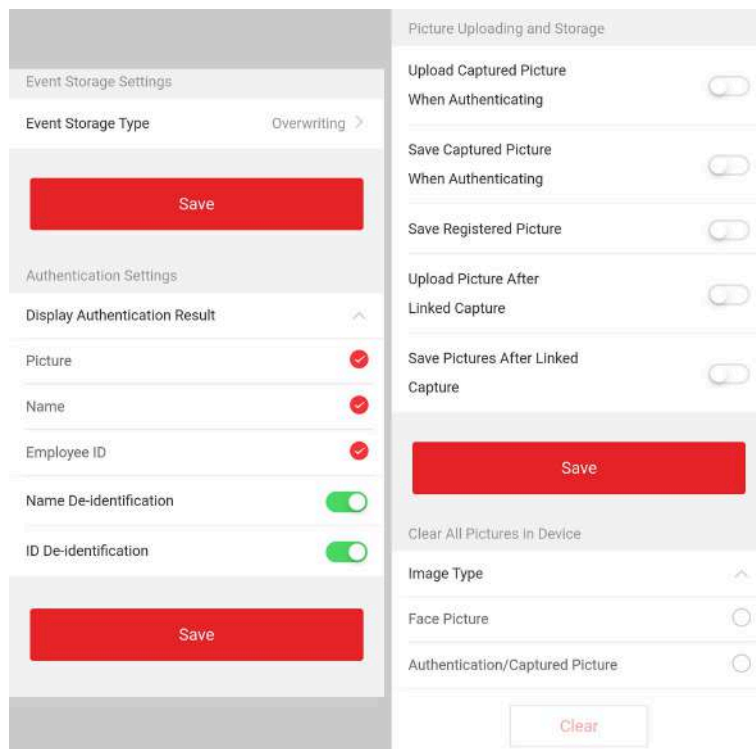


Figure 8-6 Privacy Settings

Event Storage Settings

Select a method to delete the event. You can select from **Delete Old Events Periodically**, **Delete Old Events by Specified Time**, or **Overwriting**.

Delete Old Events Periodically

Enter number to set the period for event deleting. All events will be deleted according to the configured time duration.

Delete Old Events by Specified Time

Set a time and all events will be deleted on the configured time.

Overwriting

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

Check Face Picture, Name, or Employee ID. When authentication is completed, the system will display the selected contents in the result.

Name De-identification

The name information is desensitized with an asterisk.

ID De-identification

The ID information is desensitized with an asterisk.

Picture Uploading and Storage

You can upload and store pictures.

Upload Captured Picture When Authenticating

Upload the pictures captured when authenticating to the platform automatically.

Save Captured Picture When Authenticating

If you enable this function, you can save the picture when authenticating to the device.

Save Registered Picture

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

Upload Picture After Linked Capture

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

Save Pictures After Linked Capture

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

Clear All Pictures in Device

You can clear registered face pictures and captured pictures in device.

Clear Registered Face Pictures

Select **Face Picture**, and tap **Clear**. All registered pictures in the device will be deleted.

Clear Authentication/Captured Picture

Select **Authentication/Captured Picture**, and tap **Clear**. All authentication/captured pictures in the device will be deleted.

Set Card Security

Tap **Configuration** → **General Settings** → **Card Security** to enter the settings page.

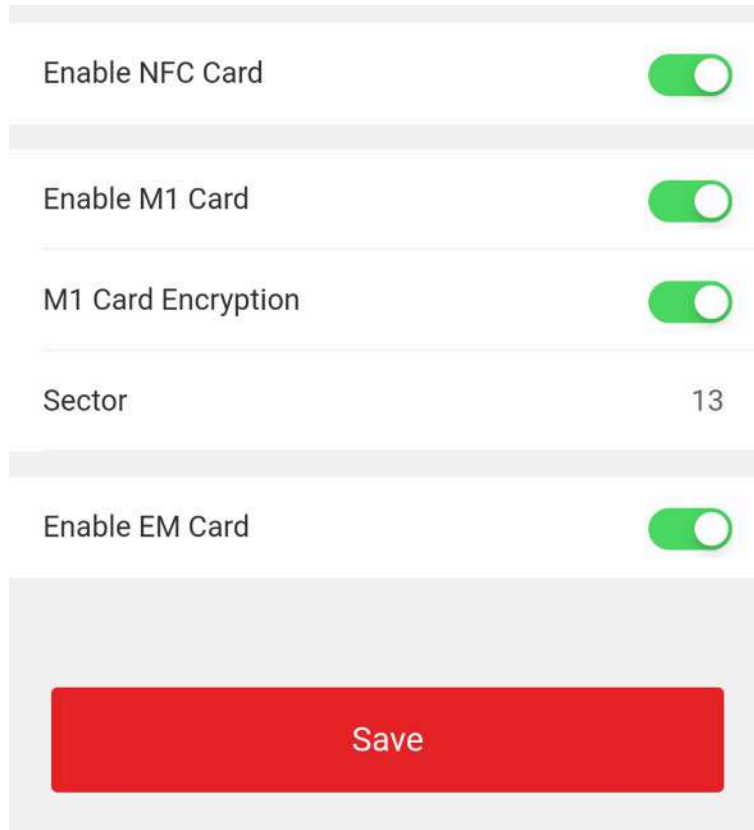


Figure 8-7 Card Security

Set the parameters and click **Save**.

Enable NFC Card

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

Enable M1 Card

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

M1 Card Encryption

M1 card encryption can improve the security level of authentication.

Sector

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

Enable EM Card

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

 **Note**

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

Enable CPU Card

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

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.

Set Card Authentication Parameters

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

Tap **Configuration** → **General Settings** → **Card Authentication Settings** .

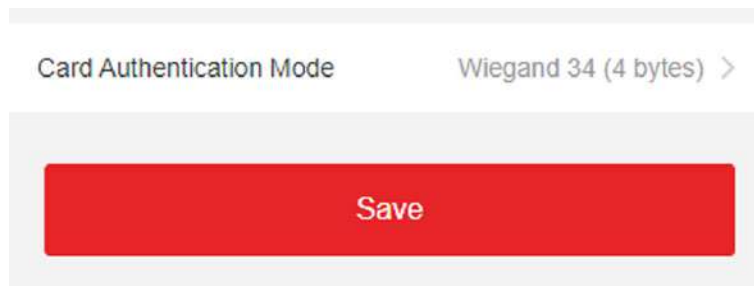


Figure 8-8 Card Authentication Page

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

Full Card No.

All card No. will be read.

Wiegand 26 (3 bytes)

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

Wiegand 34 (4 bytes)

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

8.4.6 Face Parameters Settings

Set face parameters.

Face Parameters Settings

Tap Configuration → Smart → Intelligent Parameter .

Face Anti-spoofing	<input checked="" type="checkbox"/>	Face with Mask Detection	<input checked="" type="checkbox"/>
Live Face Detection Security Level	Normal >	Face without Mask Strategy	None >
Recognition Distance	Auto >	Face with Mask&Face (1:1)	68
Application Mode	Indoor >	Face with Mask 1:N Matching Threshold	80
Face Recognition Mode	Normal Mode >	Face with Mask&Face (1:1 ECO)	78
Continuous Face Recognition Interval(s)	3	Face with Mask 1:N Matching Threshold (ECO Mode)	70
1:1 Matching Threshold	90	ECO Mode	<input checked="" type="checkbox"/>
1:N Matching Threshold	90	ECO Mode Threshold	4
Face Recognition Timeout Value(s)	3	1:1 Matching Threshold	80
		1:N Matching Threshold	80

Save

Figure 8-9 Face Parameters

Note

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

Set Face Parameters.

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.

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 **Indoor** or **Others** according to actual environment. In the outdoor scene, indoor scene near the window, or bad environment, you can choose **Others**.

 **Note**

If the device is not activated by other tools, the device uses indoor as the environment mode by default.

Face Recognition Mode

Normal Mode

The device uses a camera to perform face recognition.

Deep Mode

It is applicable for for more complex environments, and the range of people recognized is wider.

 **Note**

- The two modes cannot be compatible with each other. Do not change the mode once it is selected. If you change the mode, all face pictures of the previous mode will be cleared.
 - In the deep mode, you can add the face pictures only via the user adding function of the device or the enrollment station. It is not supported to add face pictures via pictures importing.
-

The device uses a camera to perform face recognition.

Continuous Face Recognition Interval (s)

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

 **Note**

Value Range: 1 to 10.

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. The maximum value is 100.

Face Recognition Timeout Value (s)

Configure the timeout period for face recognition. If the face recognition time exceeds the configured value, the device will prompt the face recognition timeout.

Face with Mask Detection

After enabling the face with mask detection, the system will recognize the captured face with mask picture. You can set face with mask1:N matching threshold, its ECO mode, and the strategy.

None

If the person do not wear a face mask when authenticating, the device will not prompt a notification.

Reminder of Wearing

If the person do not wear a face mask when authenticating, the device prompts a notification and the door will open.

Must Wear

If the person do not wear a face mask when authenticating, the device prompts a notification and the door keeps closed.

Face with Mask & Face (1:1)

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

Face with Mask 1:N Matching Threshold

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

Face with Mask & Face (1:1 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.

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 (1:1 Matching Threshold), and ECO mode (1:N Matching Threshold).

ECO Mode Threshold

Set the matching threshold when authenticating via ECO mode 1:1 matching mode and ECO mode 1:N matching mode.

1:1 Matching Threshold

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

1:N Matching Threshold

Set the matching threshold when authenticating via ECO mode 1:N matching mode. The larger the value, the smaller the false accept rate and the larger the false rejection rate. The maximum value is 100.

Set Recognition Area

Tap **Configuration** → **Smart** → **Area Configuration** to enter the page.

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

Drag the slider to configure the effective area of face recognition.

Tap **Save** to save the settings.

8.4.7 Video Intercom Settings

Set Device ID

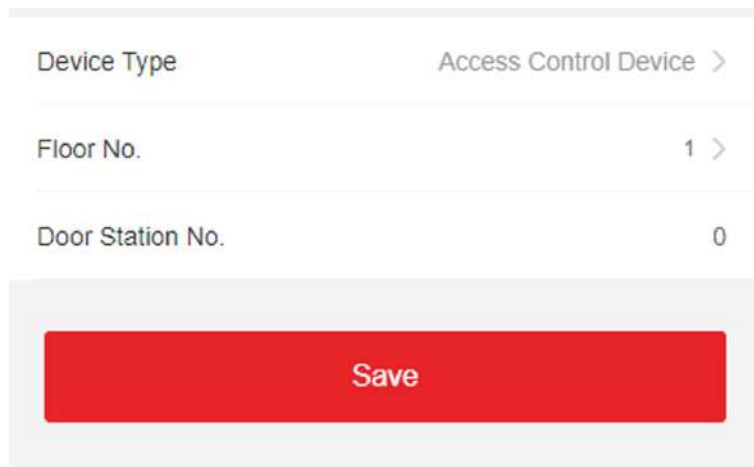
The device can be used as a door station, outer door station, or access control device. You should set the device ID before usage.

Device ID Settings

Tap **Configuration** → **Intercom** → **Device ID Settings** .

If you set the device type as **Door Station** or **Access Control Device**, you can set the floor No. and door station No.

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



Device Type	Access Control Device >
Floor No.	1 >
Door Station No.	0

Save

Figure 8-10 Device ID Settings (Door Station)

Device Type

The device can be used as a door station, outer door station, or access control device. Select a device type from the drop-down list.

 **Note**

If you change the device type, you should reboot the device.

Floor No.

Set the device installed floor No.

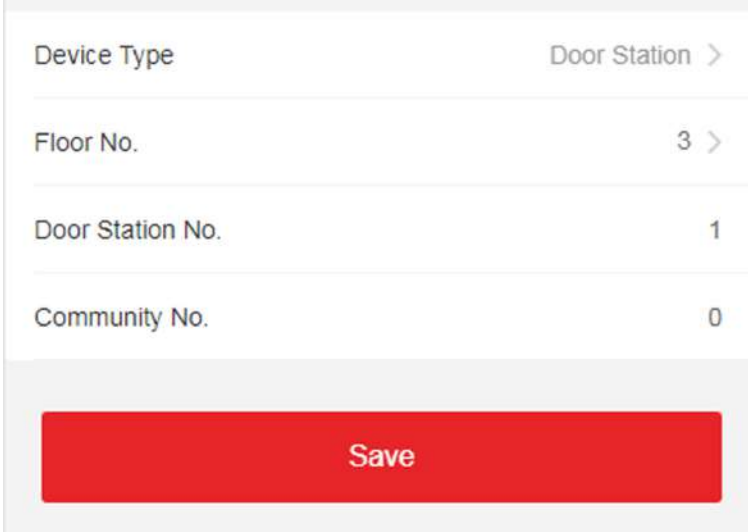
Door Station No.

Set the device installed floor No.

 **Note**

If you change the No., you should reboot the device.

If you set the device type as **Outer Door Station**, you can set the outer door station No.



Device Type	Door Station >
Floor No.	3 >
Door Station No.	1
Community No.	0

Save

Figure 8-11 Device ID Settings (Outer Door Station)

Outer Door Station No.

If you select outer door station as the device type, you should enter a number between **1** and **99**.

 **Note**

If you change the No., you should reboot the device.

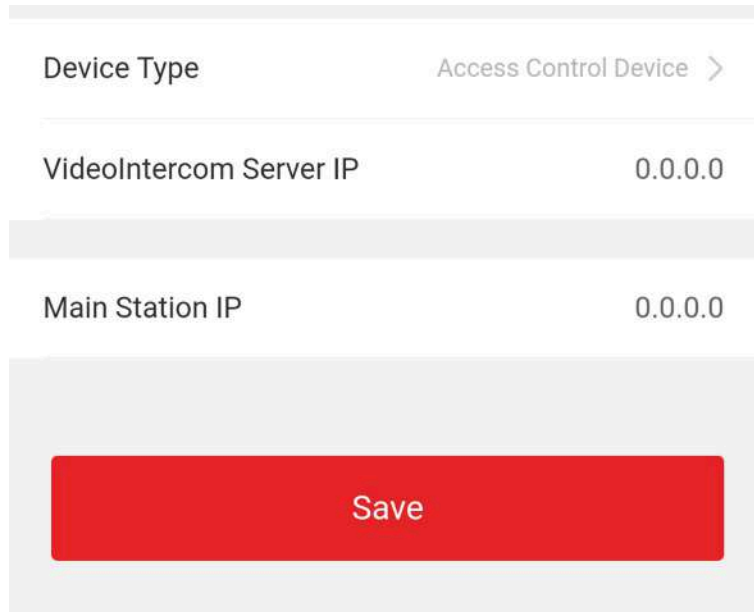
Configure SIP Parameters

Set the device's IP address and the SIP server's IP address. After setting the parameters, you can communicate among the access control device, door station, indoor station, main station, and the platform.

Note

Only the access control device and other devices or systems (such as door station, indoor station, main station, platform) are in the same IP segment, the two-way audio can be performed.

Tap **Configuration** → **Intercom** → **Linked Network Settings** .



Device Type	Access Control Device >
VideoIntercom Server IP	0.0.0.0
Main Station IP	0.0.0.0

Save

Figure 8-12 Linked Network Settings

Set the video intercom server IP and main station's IP.

Tap **Save**.

Press Button to Call

Steps

1. Tap **Configuration** → **Intercom** → **Press Button to Call** to enter the settings page.
2. Set the button to call.
 - Check **Call Indoor Station** and set the indoor station No to set the button to call indoor station.
 - Check **Call Management Center** to set the button to call management center.

8.4.8 Access Control Settings

Set Door Parameters

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

Door No.	Door1 >
Name	
Open Duration(s)	5
Door Open Timeout Alarm(s)	30
Door Contact	Remain Closed >
Exit Button Type	Remain Open >
Door Lock Powering Off	Remain Closed >
Extended Open Duration(s)	15
Door Remain Open Duration with First Person(m)	10
Duress Code
Super Password

Save

Figure 8-13 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.

Door Open Timeout Alarm

An alarm will be triggered if the door has not been closed within the configured time duration.

Door Contact

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

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 Lock Powering Off Status

You can set the door lock status when the door lock is powering off. By default, it is **Remain Closed**.

Extended Open Duration

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

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.

Super Password

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



Note

The duress code and the super code should be different. And the digit ranges from 4 to 8.

Set RS-485 Parameters

You can set the RS-485 parameters including the peripheral, address, baud rate, etc.

Tap **Configuration** → **Access Control** → **RS-485** .

RS-485 Settings	<input checked="" type="checkbox"/>
No.	1 >
Peripheral Type	Card Reader >
RS-485 Address	1
Baud Rate	19200 >
Data Bit	8 >
Stop Bit	1 >
Parity	None >
Flow Ctrl	None >
Communication Mode	Half-Duplex >

Save

Figure 8-14 RS-485 Page

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

Peripheral Type

Select a peripheral from the drop-down list according the actual situation. You can select from **Card Reader**, **Extension Module**, or **Access Controller**.



Note

After the peripheral is changed and saved, the device will reboot automatically.

RS-485 Address

Set the RS-485 Address according to your actual needs.

Note

If you select **Access Controller**: If connect the device to a terminal via the RS-485 interface, set the RS-485 address as 2. If you connect the device to a controller, set the RS-485 address according to the door No.

Baud Rate

The baud rate when the devices are communicating via the RS-485 protocol.

Data Bit

The data bit when the devices are communicating via the RS-485 protocol.

Stop Bit

The stop bit when the devices are communicating via the RS-485 protocol.

Parity/Flow Ctrl/Communication Mode

Enabled by default.

Set Wiegand Parameters

You can set the Wiegand transmission direction.

Steps

1. Tap **Configuration** → **Access Control** → **Wiegand Settings** .

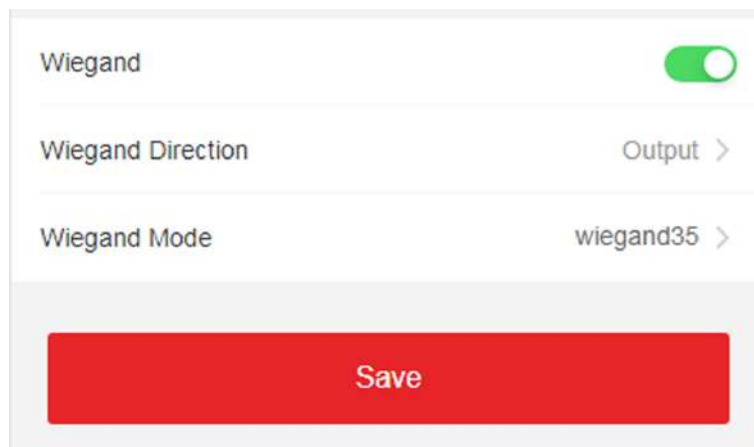


Figure 8-15 Wiegand Page

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

Output

The can connect an external access controller. And the two devices will transmit the card No. via Wiegand 26 or 34.

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



Note

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

Chapter 9 Operation via Web Browser

9.1 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.



Make sure that the IP address starts with "Https:".

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

Login via Remote Configuration of Client Software

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

9.2 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.

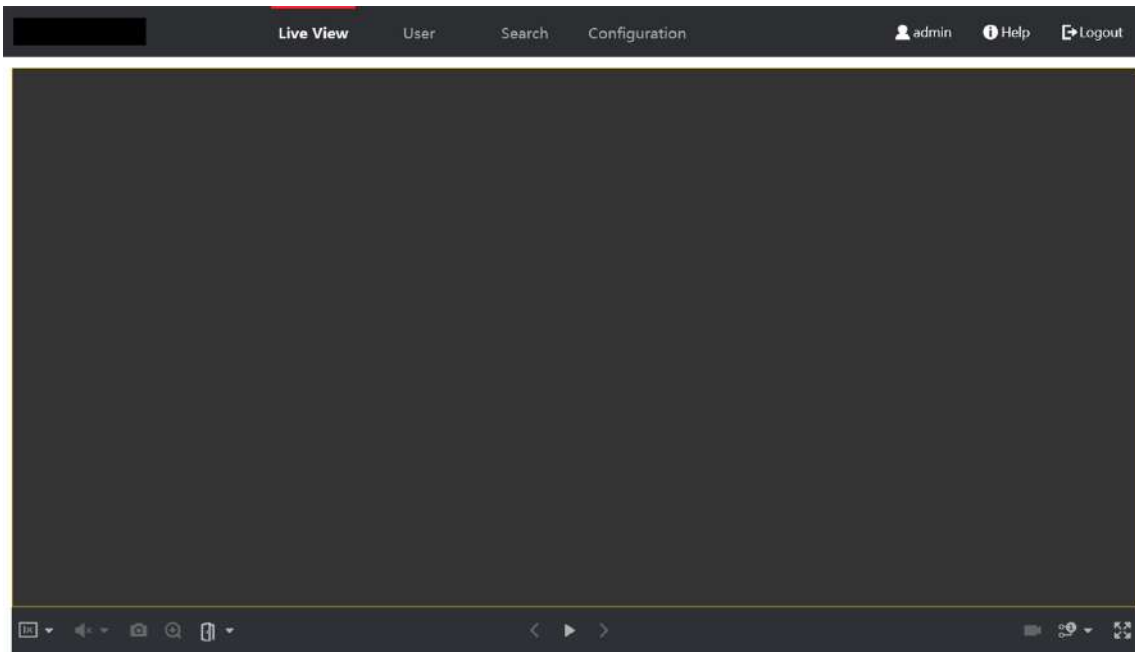


Figure 9-1 Live View Page

Function Descriptions:



Select the image size when starting live view.



Set the volume when starting live view.



Note

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



You can capture image when starting live view.



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.

9.3 Person Management

Click and add the person's information, including the basic information, card, authentication mode, and the picture.

Click **OK** to save the person.

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, user level, floor No., and room No.

Click **OK** to save the settings.

Add Card

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

Click **Add Card** and enter a card number.

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.



Note

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

Click **OK** to save the settings.

Set Permission Time

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

Set **Start Time** and **End Time**.

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 by authenticating face.

You can click **Add** to enter the **Floor No.** and **Room No.** of access control, and click  to delete it.

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.

9.4 Search Event

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

The screenshot shows a search form with the following fields and values:

- Event Types:** A dropdown menu with "Access Control Event" selected.
- Employee ID:** An empty text input field.
- Name:** An empty text input field.
- Card No.:** An empty text input field.
- Start Time:** A date and time picker showing "2021-06-07 00:00:00".
- End Time:** A date and time picker showing "2021-06-07 23:59:59".

Figure 9-2 Search Page

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

The results will be displayed on the right panel.

9.5 Configuration

9.5.1 Set Local Parameters

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

9.5.2 View Device Information

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

9.5.3 Set Time

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

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

Time Zone (GMT+08:00) Beijing, Urumqi, Singapore, Perth ▼

Time Sync. NTP Manual

Server Address 2.com

NTP Port 7

Interval 7 minute(s)

Save

Figure 9-3 Time Settings

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

Time Zone

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

Time Sync.

NTP

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

Manual

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

9.5.4 Set DST

Steps

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

Enable DST

Start Time: Apr, First, Sun, 02

End Time: Oct, Last, Sun, 02

DST Bias: 30minute(s)

Save

Figure 9-4 DST Page

2. Check **Enable DST**.

3. Set the DST start time, end time and bias time.

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

9.5.5 View Open Source Software License

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

9.5.6 Upgrade and Maintenance

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

Reboot Device

Click **Configuration** → **System** → **Maintenance** → **Upgrade & Maintenance** .



Figure 9-5 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  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  and select the upgrade file from your local PC. Click **Upgrade** to start upgrading.

Note

Do not power off during the upgrading.

9.5.7 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.

9.5.8 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** .

Select a security mode from the drop-down list, and click **Save**.

Security Mode

High security level for user information verification when logging in the client software.

Compatible Mode

The user information verification is compatible with the old client software version when logging in.

Enable SSH

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

Enable HTTPS

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

9.5.9 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**.

9.5.10 Change Administrator's Password

Steps

1. Click **Configuration → User Management** .
2. Click  .
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.

9.5.11 View Device Arming/Disarming Information

View device arming type and arming IP address.

Go to **Configuration → Arming/Disarming Information** .

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

9.5.12 Network Settings

Set TCP/IP, port, Wi-Fi parameters, report strategy, platform access and HTTP listening.

Note

Some device models do not support Wi-Fi settings. Refer to the actual products when configuration.

Set Basic Network Parameters

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

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

DHCP

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

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

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, HTTPS and Server port parameters.

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.

Server

It refers to the port through which the client adds the device.

Set Wi-Fi Parameters

Set the Wi-Fi parameters for device wireless connection.

Steps


Note

The function should be supported by the device.

1. Click **Configuration** → **Network** → **Basic Settings** → **Wi-Fi** .



Figure 9-6 Wi-Fi Settings Page

2. Check **Wi-Fi**.
3. Select a Wi-Fi
 - Click  of a Wi-Fi in the list and enter the Wi-Fi password.
 - Click **Add**, and enter the SSID, working mode, and encryption type. Click **Connect**. When the Wi-Fi is connected, click **OK**.
4. **Optional:** Set the WLAN parameters.
 - 1) Click **Network Settings**.
 - 2) Set the IP address, subnet mask, and default gateway. Or check **Enable DHCP** and the system will allocate the IP address, subnet mask, and default gateway automatically.
5. Click **OK**.

Report Strategy Settings

You can set the center group for uploading the log via the ISUP protocol.

Go to **Configuration** → **Network** → **Basic Settings** → **Report Strategy** .

You can set the center group and the system will transfer logs via ISUP protocol. Click **Save** to save the settings.

Center Group

Select a center group from the drop-down list.

Main Channel

The device will communicate with the center via the main channel.



N1 refers to wired network.

Platform Access

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

Steps

1. Click **Configuration** → **Network** → **Advanced** → **Platform Access** to enter the settings page.
2. Select the **Platform Access Mode**.



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

3. Check the checkbox of **Enable** to enable the function.
4. **Optional:** Check the checkbox of **Custom**, and you can set the server address by yourself.
5. Create a **Stream Encryption/Encryption Key** for the device.



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

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

Set ISUP Parameters

Set the ISUP parameters for accessing device via ISUP protocol.

Steps



The function should be supported by the device.

1. Click **Configuration** → **Network** → **Advanced Settings** → **Platform** .
2. Select **ISUP** from the platform access mode drop-down list.
3. Check **Enable**.
4. Set the ISUP version, and view the alarm receiver type, server address, port, device ID, register status.

 **Note**

If you select 5.0 as the version, you should set the ISUP key as well.

5. Set the ISUP listening parameters, including ISUP alarm center IP address/domain name, ISUP alarm center URL, and ISUP alarm center port.
6. Click **Save**.

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.

 **Note**

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**.

9.5.13 Set Video and Audio Parameters

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

Set Video Parameters

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

Stream Type	Main Stream	▼
Video Type	Video&Audio	▼
Resolution	1280*720	▼
Bitrate Type	Constant	▼
Video Quality	Lowest	▼
Frame Rate	25	▼
Max. Bitrate	2048	Kbps
Video Encoding	H.264	▼
I Frame Interval	25	

Save

Figure 9-7 Video Settings Page

Set the stream type, the video type, the bitrate type, 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** .

Set the audio stream type and audio encoding.

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

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

Note

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

9.5.14 Customize Audio Content

Customize the output audio content when authentication succeeded and failed.

Steps

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

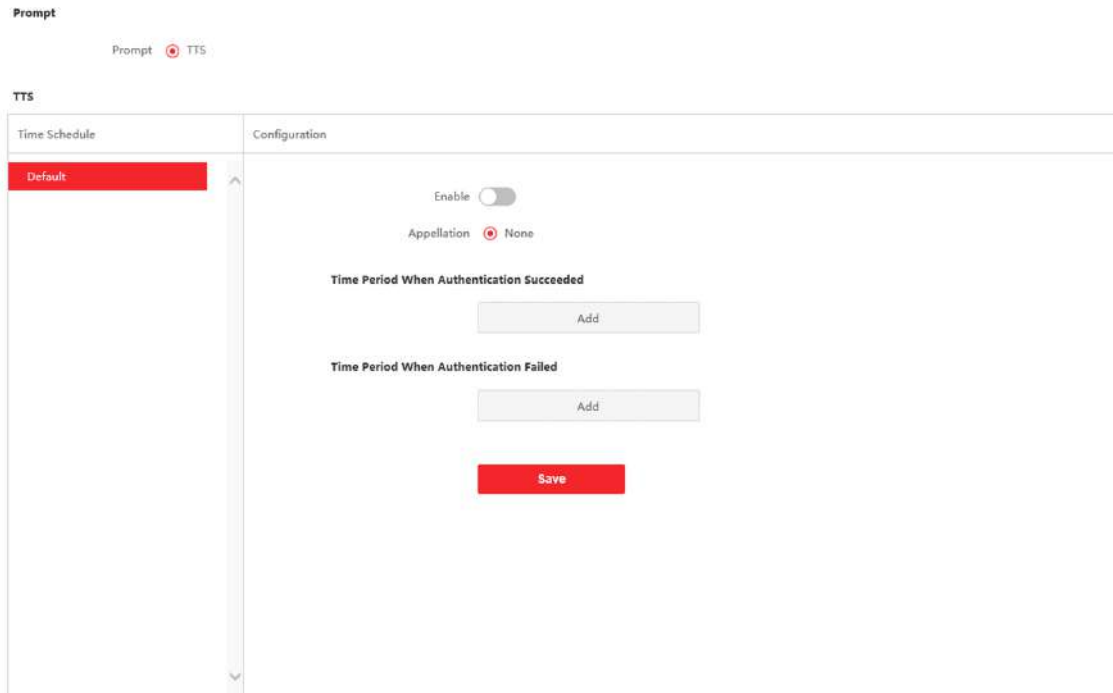



Figure 9-8 Customize Audio Content

2. Select **Prompt** as **TTS**(Text to Speech) to turn the text to audio content.
3. Select time schedule.
4. Enable the function.
5. Set the appellation.
6. Set the time period when authentication succeeded.
 - 1) Click **Add**.
 - 2) Set the time duration and the language.


Note

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

- 3) Enter the audio content.
- 4) **Optional:** Repeat substep 1 to 3.
- 5) **Optional:** Click  to delete the configured time duration.
7. Set the time duration when authentication failed.
 - 1) Click **Add**.
 - 2) Set the time duration and the language.

Note

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

- 3) Enter the audio content.
 - 4) **Optional:** Repeat substep 1 to 3.
 - 5) **Optional:** Click  to delete the configured time duration.
- 8. Optional:** Add holiday schedule.
- 1) Click **Add** to add holiday schedule.
 - 2) Repeat step 3 to 6.
- 9.** Click **Save** to save the settings.

9.5.15 Set Image Parameters

Set the video standard, WDR, brightness, contrast, saturation, and sharpness.

Steps

1. Click **Configuration** → **Image Adjustment** .

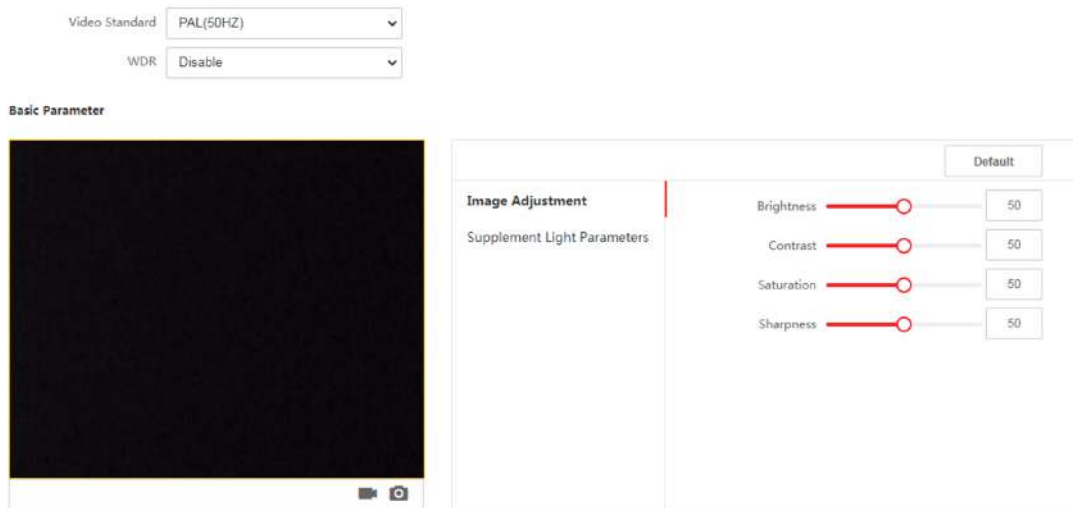


Figure 9-9 Image Settings Page

2. Configure the parameters to adjust the image.

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.



Start/end recording video.



Capture the image.

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

9.5.16 Set Supplement Light Brightness

Set the device supplement light brightness.

Steps

1. Click **Configuration** → **Image** → **Supplement Light Parameters** .

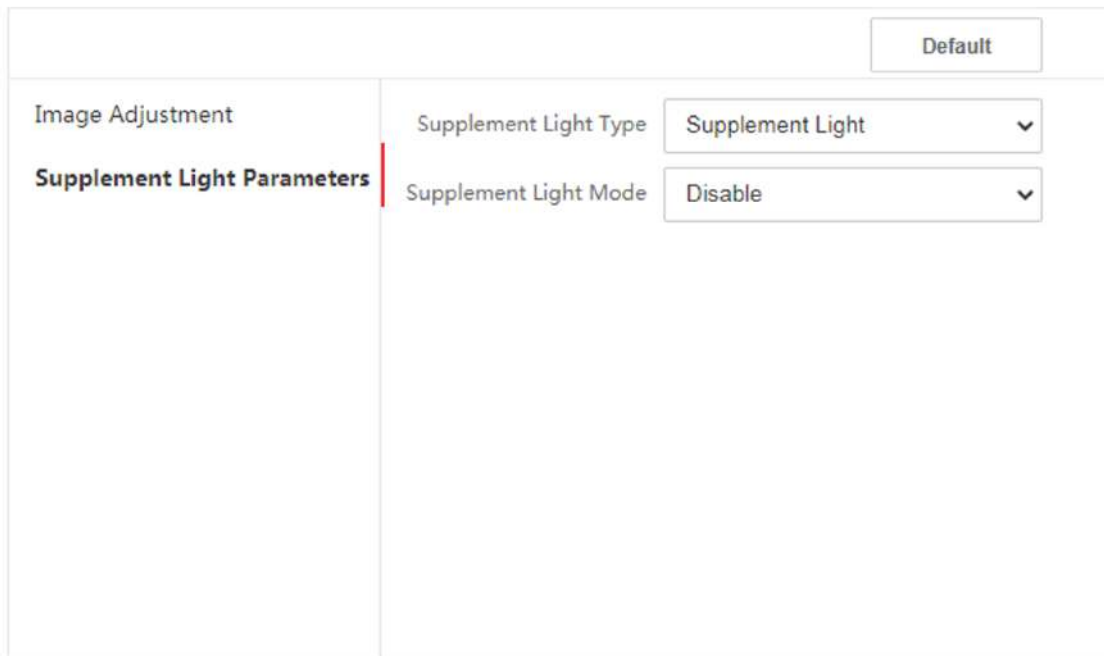


Figure 9-10 Supplement Light Settings Page

2. Select a supplement light type and mode from the drop-down list. If you select the mode as **ON**, you should set the brightness.

9.5.17 Time and Attendance Settings

If you want to track and monitor when the persons start/stop work and monitor their working hours and late arrivals, early departures, time taken on breaks, and absenteeism, you can add the person to the shift group and assign a shift schedule (a rule for the attendance defining how the schedule repeats, the shift type, break settings, and the card swiping rule.) to the shift group to define the attendance parameters for the persons in the shift group.

Disable Attendance Mode via Web

Disable the attendance mode and the system will not display the attendance status on the initial page.

Steps

1. Click **Configuration** → **Attendance** to enter the settings page.
2. Set the **Attendance Mode** as **Disable**.

Result

You will not view or configure the attendance status on the initial page. And the system will follow the attendance rule that configured on the platform.

Time Settings

Steps

1. Click **Configuration** → **Time Settings** to enter the settings page.
2. Select **Status Type**.
3. **Optional:** Edit **Schedule Name** according to the actual needs.
4. Drag mouse to set the schedule.



Set the schedule from Monday to Sunday according to the actual needs.

5. **Optional:** Select a timeline and click **Delete**. Or click **Delete All** to clear the settings.
6. Click **Save**.

Set Manual Attendance via Web

Set the attendance mode as manual, and you should select a status manually when you take attendance.

Before You Start

Add at least one user, and set the user's authentication mode. For details, see *User Management*.

Steps

1. Click **Configuration** → **Attendance** to enter the settings page.
2. Set the **Attendance Mode** as **Manual**.
3. Enable the **Attendance Status Required** and set the attendance status lasts duration.
4. Enable a group of attendance status.



The Attendance Property will not be changed.

5. **Optional:** Select an status and change its name if required.

Result

You should select an attendance status manually after authentication.



If you do not select a status, the authentication will be failed and it will not be marked as a valid attendance.

Set Auto Attendance via Web

Set the attendance mode as auto, and you can set the attendance status and its available schedule. The system will automatically change the attendance status according to the configured schedule.

Before You Start

Add at least one user, and set the user's authentication mode. For details, see *User Management*.

Steps

1. Click **Configuration** → **Attendance** to enter the settings page.
2. Set the **Attendance Mode** as **Auto**.
3. Enable the **Attendance Status** function.
4. Enable a group of attendance status.



Note

The Attendance Property will not be changed.

-
5. **Optional:** Select an status and change its name if required.
 6. Set the status' schedule. Refers to *Time Settings* for details.

Set Manual and Auto Attendance via Web

Set the attendance mode as **Manual and Auto**, and the system will automatically change the attendance status according to the configured schedule. At the same time you can manually change the attendance status after the authentication.

Before You Start

Add at least one user, and set the user's authentication mode. For details, see *User Management*.

Steps

1. Click **Configuration** → **Attendance** to enter the settings page.
2. Set the **Attendance Mode** as **Manual and Auto**.
3. Enable the **Attendance Status** function.
4. Enable a group of attendance status.



Note

The Attendance Property will not be changed.

-
5. **Optional:** Select an status and change its name if required.
 6. Set the status' schedule. Refers to *Time Settings* for details.

Result

On the initial page and authenticate. The authentication will be marked as the configured attendance status according to the schedule. If you tap the edit icon on the result tab, you can select a status to take attendance manually, the authentication will be marked as the edited attendance status.

Example

If set the **Break Out** as Monday 11:00, and **Break In** as Monday 12:00, the valid user's authentication from Monday 11:00 to 12:00 will be marked as break.

9.5.18 General Settings

Set Authentication Parameters

Click **Configuration** → **General** → **Authentication Settings** .



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

Card Reader	Main Card Reader	▼
Card Reader Type	Fingerprint/Face	
Card Reader Description		
Enable Card Reader	<input checked="" type="checkbox"/>	
Authentication	Card or Face or Fingerprint	▼
Recognition Interval	1	s
Authentication Interval	22	s
Alarm of Max. Failed Attempts	<input type="checkbox"/>	
Max. Authentication Failed Attempts	5	
Enable Tampering Detection	<input checked="" type="checkbox"/>	
Enable Card No. Reversing	<input type="checkbox"/>	

Save

Figure 9-11 Set Authentication Parameters

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

Device Type

Select **Main Card Reader** or **Sub Card Reader** from the drop-down list.

Main Card Reader

You can configure the device card reader's parameters.

Sub Card Reader

You can configure the connected peripheral card reader's parameters.

If select **Main Card Reader**:

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.

Authentication Interval

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

Alarm of Max. Failed Attempts

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

Max. Authentication Failed Attempts

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

Enable Tampering Detection

Enable the anti-tamper detection for the card reader.

Enable Card No. Reversing

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

If select **Sub Card Reader**:

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

If the interval between card presenting of the same card is less than the configured value, the card presenting is invalid.

Authentication Interval

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

Alarm of Max. Failed Attempts

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

Max. Authentication Failed Attempts

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

Communication with Controller Every

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

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.

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.

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

Select a method to delete the event. You can select from **Delete Old Events Periodically**, **Delete Old Events by Specified Time**, or **Overwriting**.

Delete Old Events Periodically

Drag the block or enter number to set the period for event deleting. All events will be deleted according to the configured time duration.

Delete Old Events by Specified Time

Set a time and all events will be deleted on the configured time.

Overwriting

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**, **Employee ID** and **Temperature**, to display the authentication result.

Name De-identification

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

Picture Uploading and Storage

Upload Captured Picture When Authenticating

Upload the pictures captured when authenticating to the platform automatically.

Save Captured Picture When Authenticating

If you enable this function, you can save the picture when authenticating to the device.

Save Registered Picture

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

Upload Picture After Linked Capture

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

Save Pictures After Linked Capture

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

Clear All Pictures in Device



Note

All pictures cannot be restored once they are deleted.

Clear Registered Face Pictures

All registered pictures in the device will be deleted.

Clear Captured Pictures

All captured pictures in the device will be deleted.

Set Face Recognition Parameters

You can set face recognition parameters for accessing.

Click **Configuration** → **Access Control** → **Face Recognition Parameters** .

You can set **Working Mode** as **Access Control Mode**. The access control mode is the device normal mode. You should authenticate your credential for accessing.

Set Card Security

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

Set the parameters and click **Save**.

Enable NFC Card

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

Enable M1 Card

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

M1 Card Encryption

M1 card encryption can improve the security level of authentication.

Sector

Enable the function and set the encryption sector. 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 DESFire Card

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

DESFire Card Read Content

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

Set Card Authentication Parameters

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

Go to **Configuration** → **Access Control** → **Card Authentication Settings** .

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

Full Card No.

All card No. will be read.

Wiegand 26 (3 bytes)

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

Wiegand 34 (4 bytes)

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

9.5.19 Video Intercom Settings

Set Video Intercom Parameters

The device can be used as a door station, outer door station, or access control device. You should set the device No. before usage.

Click **Configuration** → **Video Intercom** → **Device No.**

The screenshot shows a web-based configuration form for video intercom parameters. It consists of several input fields and a save button. The fields are: Device Type (a dropdown menu set to 'Door Station'), Floor No. (a dropdown menu set to '1'), Door Station No. (a text input field set to '0'), and an 'Advanced Settings' section (indicated by a caret icon) containing three text input fields: Community No. (set to '1'), Building No. (set to '1'), and Unit No. (set to '1'). At the bottom of the form is a prominent red button labeled 'Save'.

Figure 9-12 Set Video Intercom Parameters

If set the device type as **Door Station** and **Access Control Device**, you can set the floor No., door station No., and click **Advanced Settings** to set the community No., building No., and unit No.

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

Device Type

The device can be used as a door station, outer door station, or access control device. Select a device type from the drop-down list.

Note

If you change the device type, you should reboot the device.

Floor No.

Set the device installed floor No.

Door Station No.

Set the device installed floor No.



Note

If you change the No., you should reboot the device.

Community No.

Set the device installed community No.

Building No.

Set the device installed building No.

Unit No.

Set the device installed unit No.

If set the device type as **Outer Door Station**, you can set the outer door station No., and click **Advanced Settings** to set the community No.

Outer Door Station No.

If you select outer door station as the device type, you should enter a number between **1** and **99**.



Note

If you change the No., you should reboot the device.

Community No.

Set the device installed community No.

Configure SIP Parameters

Set the device's IP address and the SIP server's IP address. After setting the parameters, you can communicate among the access control device, door station, indoor station, main station, and the platform.



Note

Only the access control device and other devices or systems (such as door station, indoor station, main station, platform) are in the same IP segment, the two-way audio can be performed.

Go to **Configuration → Video Intercom → Linked Network Settings** .

Set the main station's IP address and SIP server's IP address.

Click **Save**.

Press Button to Call

Steps

1. Click **Intercom** → **Press Button to Call** to enter the settings page.
2. Set the parameters.
 - Edit call No. for every button.
 - Check **Call Management Center** to set the button calling center.

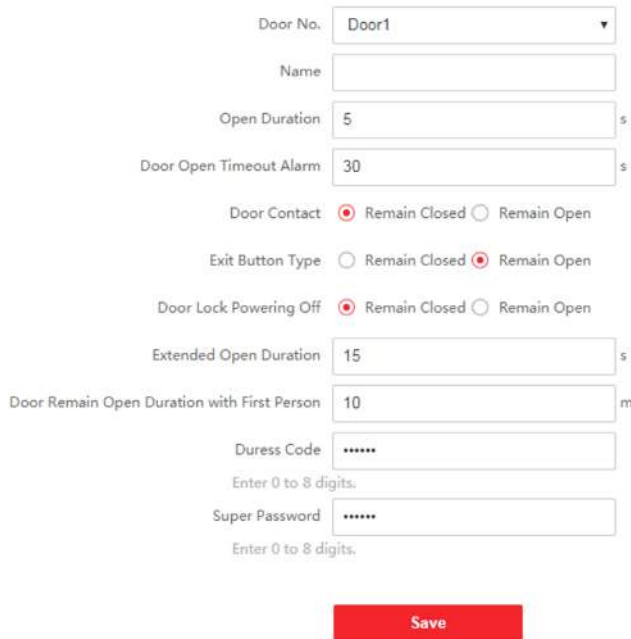
Note

If you check **Call Management Center** and set the call No. as well, call management center has higher privilege than call No.

9.5.20 Access Control Settings

Set Door Parameters

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



The screenshot shows the 'Door Parameters' settings page. It contains the following fields and options:

- Door No.: Door1 (dropdown menu)
- Name: (empty text input)
- Open Duration: 5 (text input, unit 's')
- Door Open Timeout Alarm: 30 (text input, unit 's')
- Door Contact: Remain Closed Remain Open
- Exit Button Type: Remain Closed Remain Open
- Door Lock Powering Off: Remain Closed Remain Open
- Extended Open Duration: 15 (text input, unit 's')
- Door Remain Open Duration with First Person: 10 (text input, unit 'm')
- Duress Code: ***** (text input)
- Super Password: ***** (text input)

Below the fields is a red 'Save' button.

Figure 9-13 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.

Door Open Timeout Alarm

An alarm will be triggered if the door has not been closed within the configured time duration.

Door Contact

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

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 Lock Powering Off Status

You can set the door lock status when the door lock is powering off. By default, it is **Remain Closed**.

Extended Open Duration

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

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.

Super Password

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



Note

The duress code and the super code should be different.

Set RS-485 Parameters

You can set the RS-485 parameters including the peripheral, address, baud rate, etc.

Click **Configuration** → **Access Control** → **RS-485 Settings** .

Check **Enable RS-485**, and set the parameters.

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

No.

Set the RS-485 No.

Peripheral Type

Select a peripheral from the drop-down list according the actual situation. You can select from **Card Reader, Extension Module, Access Controller, or Disable.**



Note

After the peripheral is changed and saved, the device will reboot automatically.

RS-485 Address

Set the RS-485 Address according to your actual needs.



Note

If you select **Access Controller**: If connect the device to a terminal via the RS-485 interface, set the RS-485 address as 2. If you connect the device to a controller, set the RS-485 address according to the door No.

Baud Rate

The baud rate when the devices are communicating via the RS-485 protocol.

Set Wiegand Parameters

You can set the Wiegand transmission direction.

Steps



Note

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

1. Click **Configuration** → **Access Control** → **Wiegand Settings** .

Wiegand

Wiegand Direction Output

Wiegand Mode Wiegand 26 Wiegand 34

Save

Figure 9-14 Wiegand Page

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

Output

The can connect an external access controller. And the two devices will transmit the card No. via Wiegand 26 or 34.

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



Note

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

9.5.21 Set Biometric Parameters

Set Basic Parameters

Click **Configuration** → **Smart** → **Smart** .

Face Parameters

Face Anti-spoofing

Live Face Detection Security Level Normal High Profile Highest

Recognition Distance Automatic 0.5m 1m 1.5m 2m

Application Mode Indoor Other

Face Recognition Mode

Continuous Face Recognition Interval 3 s

Pitch Angle 45 °

Yaw Angle 45 °

Face Grading 50

1:1 Matching Threshold 90

1:N Matching Threshold 90

Face Recognition Timeout Value 3 s

Face with Mask Detection

Face without Mask Strategy

Face with Mask&Face (1:1) 68

Face with Mask 1:N Matching Threshold 80

ECO Mode

ECO Mode Threshold 4

ECO Mode (1:1) 80

ECO Mode (1:N) 80

Face with Mask&Face (1:1 ECO) 78

Face with Mask 1:N Matching Threshold (ECO Mode) 70

Fingerprint Parameters

Fingerprint Security Level

Figure 9-15 Set Face Parameters

 **Note**

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

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

Face Anti-spoofing

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

 **Note**

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

Live Face Detection Security Level

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

Recognition Distance

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

Application Mode

Select either others or indoor according to actual environment.

Face Recognition Mode

Normal Mode

Recognize face via the camera normally.

Deep Mode

In the deep mode, you can add the face pictures only via the user adding function of the device or the enrollment station. It is not supported to add face pictures via pictures importing.

 **Note**

In the deep mode, you can add the face pictures only via the device or the enrollment station. It is not supported to add face pictures via pictures importing.

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.

Face Grading

Set the face grading according to your needs.

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 with Mask Detection

After enabling the face with mask detection, the system will recognize the captured face with mask picture. You can set face with mask 1:N matching threshold, its ECO mode, and the strategy.

None

If the person do not wear a face mask when authenticating, the device will not prompt a notification.

Reminder of Wearing

If the person do not wear a face mask when authenticating, the device prompts a notification and the door will open.

Must Wear

If the person do not wear a face mask when authenticating, the device prompts a notification and the door keeps closed.

Face with Mask & Face (1:1)

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

Face with Mask 1:N Matching Threshold

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

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 Threshold

Set the ECO mode's threshold. The larger the value, the easier the device entering the ECO mode.

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.

Fingerprint Security Level

Select the fingerprint security level.

The higher is the security level, the lower is the false acceptance rate (FAR).

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.

Set **Area Configuration**, **Margin (Left)**, **Margin (Right)**, **Margin (Top)** and **Margin (Bottom)** as desired.

Click **Save** to save the settings.

Click  or  to record videos or capture pictures.

9.5.22 Set Notice Publication

You can set the theme for the device.

Click **Configuration** → **Theme** → **Media Database** , click + **Add**, and click **Upload** to upload the material to the media library.

Click **Configuration** → **Theme** → **Theme** .

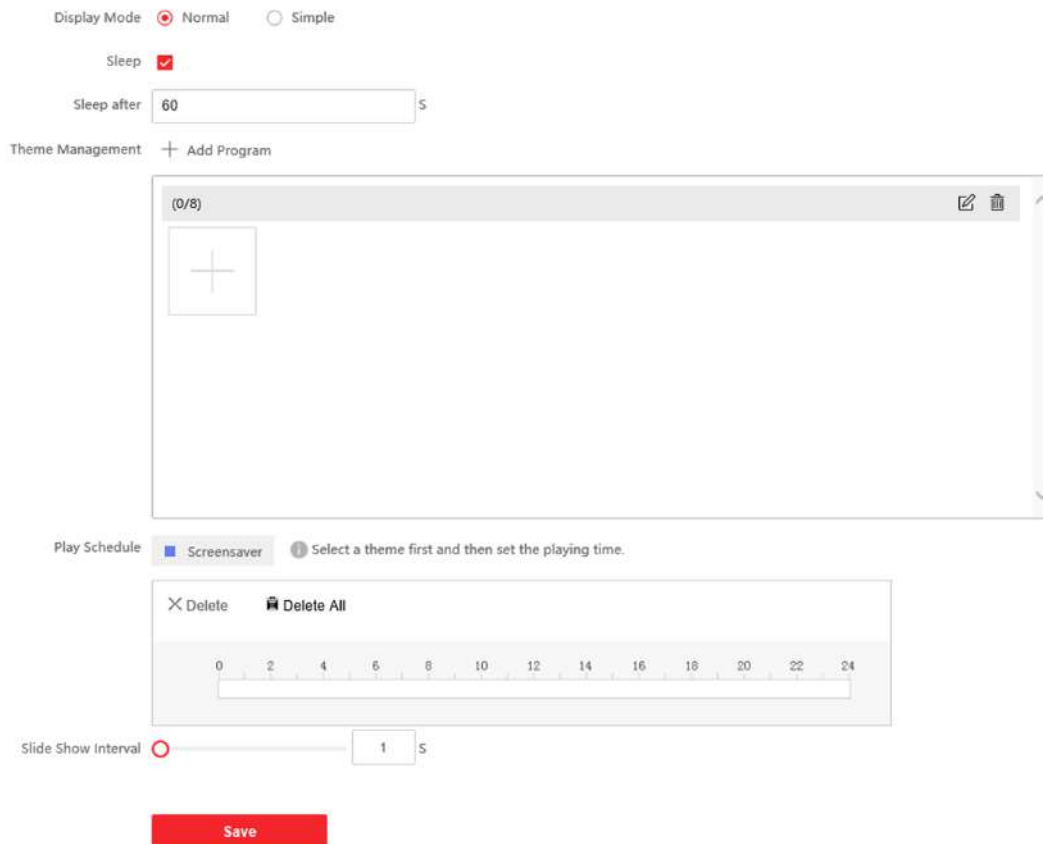


Figure 9-16 Theme Page

Display Mode

You can select display theme for device authentication. You can select **Display Mode** as **Simple** or **Normal**. When you select **Simple**, the information of name, ID, face picture will be not displayed.

Sleep

Enable **Sleep** and the device will enter the sleep mode when no operation within the configured sleep time.

Theme Management

You can click **+ Add Program** in the frame and upload the screen saver pictures from the local PC.



Note

By now, there is only one theme can be added.

Play Schedule

After you have created a theme, you can select the theme and draw a schedule on the time line to set the theme play schedule.

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

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

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.

Chapter 10 Client Software Configuration

10.1 Configuration Flow of Client Software

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

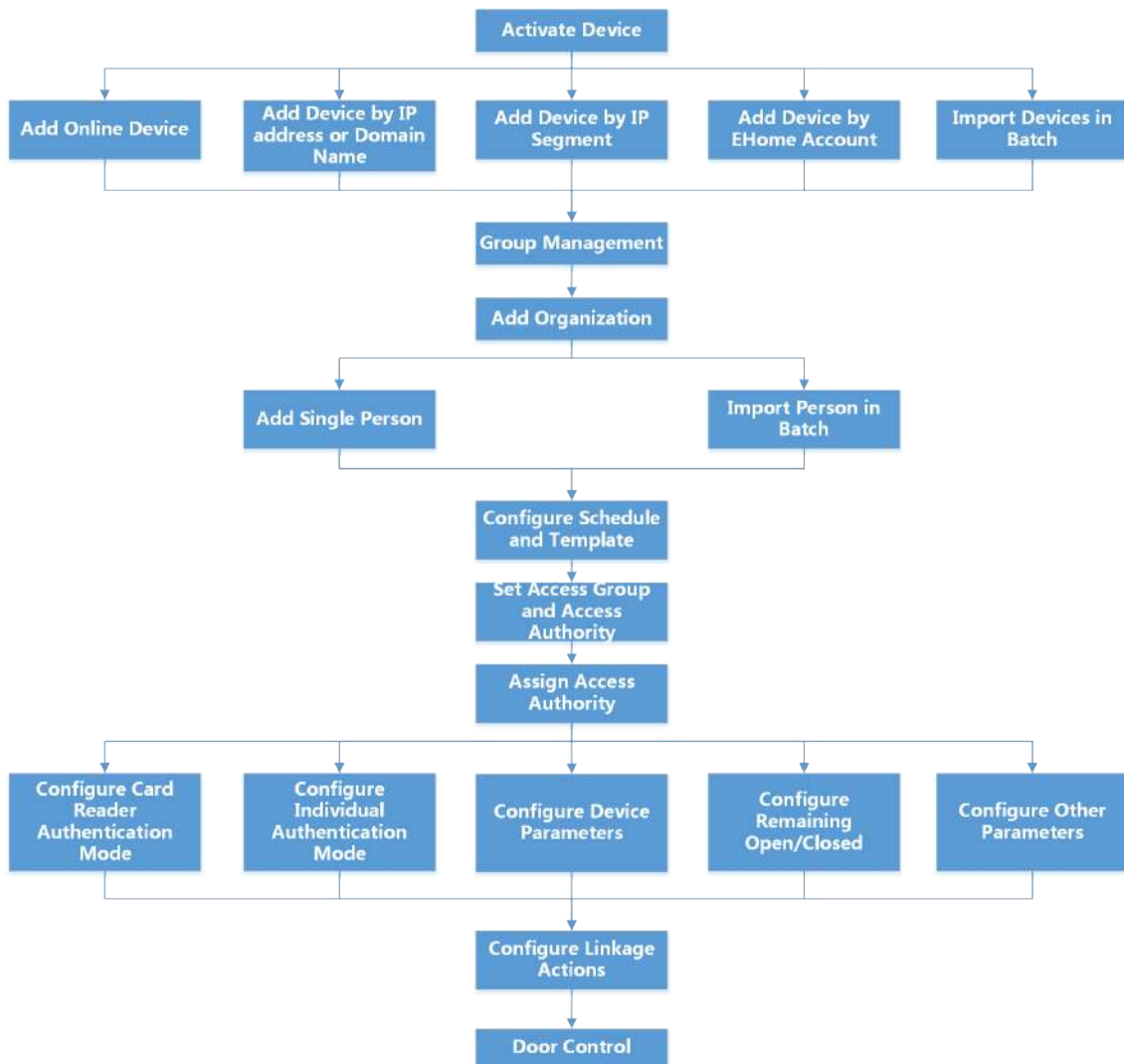


Figure 10-1 Flow Diagram of Configuration on Client Software

10.2 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.

10.2.1 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**.

User Name

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

Password

Enter the device password.



Caution

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

you change your password regularly, especially in the high security system, changing the password monthly or weekly can better protect your product.

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

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

Note

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

Steps

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

Note

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

Adding Mode

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

Address

Edit the address of the device.

Port

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

User Name

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

Password

Enter the device password.




Caution

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

Proper configuration of all passwords and other security settings is the responsibility of the 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 select the template file.
7. Click **Add** to import the devices.

10.2.2 Reset Device Password

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

Steps

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

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

 **Note**

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

 **Caution**







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

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

10.2.3 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 10-1 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.
View Online User	Click  to view the details of online user who access the device, including user name, user type, IP address and login time.
Refresh Device Information	Click  to refresh and get the latest device information.

10.3 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.

10.3.1 Add Group

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

Steps

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



Note

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

10.3.2 Import Resources to Group

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

Before You Start

Add a group for managing devices. Refer to [Add Group](#) .

Steps

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



Note

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

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

10.4 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.

10.4.1 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 subordinate organization for the added one.

Steps

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



Note

Up to 10 levels of organizations can be added.

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

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

Delete Organization Hover the mouse on an added organization and click to delete it.



Note

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

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

10.4.2 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.



Note

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

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



Note

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


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.

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** to open the Export panel.
 4. Check **Person Information** as the content to export.
 5. Check desired items to export.
 6. 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.

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** to open the Export panel and check **Face** as the content to export.
 4. Click **Export** to start exporting.



- 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).
-

10.4.3 Get Person Information from Access Control Device

If the added 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 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.
 - 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.
-



If you select the enrollment station, you should click **Login**, and set IP address, port No., user name and password of the device.

5. Click **Import** to start importing the person information to the client.
-



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

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.

10.4.4 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 *Issue a Card by Local Mode*.
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).

10.4.5 Report Card Loss

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

Steps

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

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

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

10.4.6 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.

10.5 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*** .

10.5.1 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.
-








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

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



Up to 8 time durations can be set to one holiday period.

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

10.5.2 Add Template

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

Steps

Note

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

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

Note

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

All-Day Authorized

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



All-Day Denied

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

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

Note

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

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


Note

Up to 4 holidays can be added to one template.

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

Note

For details about adding a holiday, refer to [**Add Holiday**](#).

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

10.6 Set Access Group to Assign Access Authorization to Persons

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

Before You Start

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

Steps

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

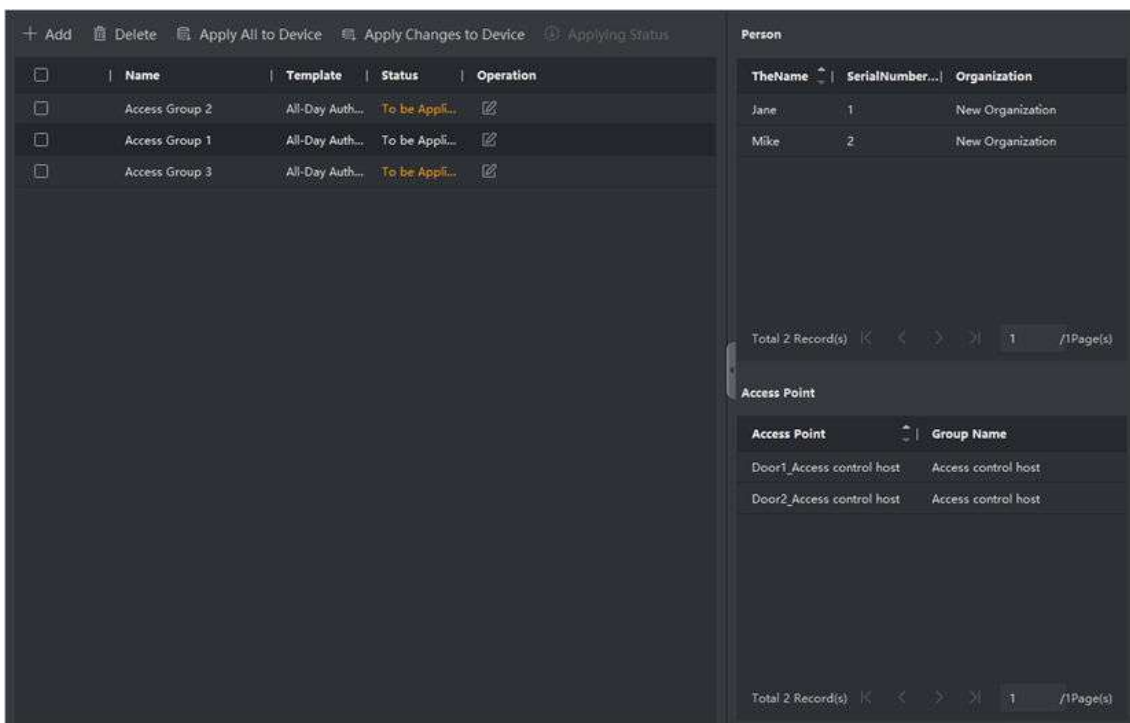


Figure 10-2 Display the Selected Person(s) and Access Point(s)

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

Apply All to Devices

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

Apply Changes to Devices

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

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

Note

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

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

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

Note

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

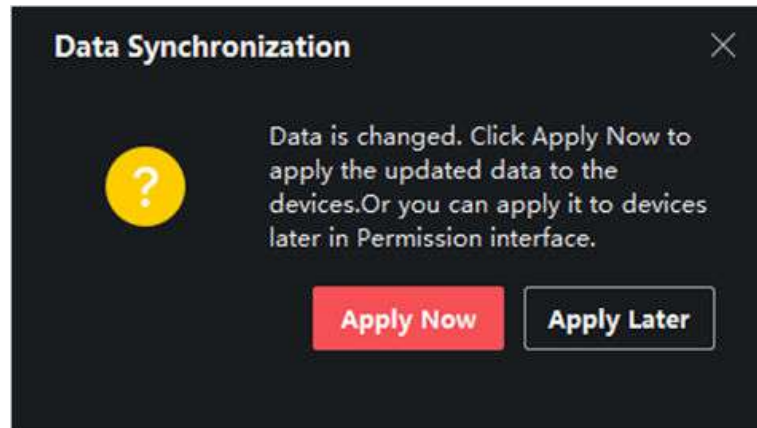



Figure 10-3 Data Synchronization

10.7 Configure Advanced Functions

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

Note

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

10.7.1 Configure Device Parameters

After adding the access control device, you can configure the parameters of access control device, access control points.


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.

Steps

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



If you can 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.

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.

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 NFC Card

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

Enable M1 Card

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

Enable EM Card

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



Note

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

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


Configure Parameters for Door/Elevator

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

Before You Start

Add access control device to the client.

Steps

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



Note

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

Name

Edit the card reader name as desired.

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 access 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).



Note

- 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).



Note

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


Configure Parameters for Card Reader

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

Before You Start

Add access control device to the client.

Steps

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



Note

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

10.7.2 Configure Device Parameters

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

Set Parameters for Face Recognition Terminal

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

Steps



Note

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.

Steps



The RS-485 Settings 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 **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 serial number, external device, authentication center, baud rate, data bit, stop bit, parity type, flow control type, communication mode, and working mode in the drop-down list.

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.

Steps

Note

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

Note

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

6. Check **Enable Wiegand** to enable the Wiegand function.
7. Click **Save**.
 - The configured parameters will be applied to the device automatically.
 - After changing the communication direction, the device will reboot automatically.

Enable M1 Card Encryption

M1 card encryption can improve the security level of authentication.

Steps

Note

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

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

5. Set the sector ID.

 **Note**

- The sector ID ranges from 1 to 100.
- By default, Sector 13 is encrypted. It is recommended to encrypt sector 13.

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

10.8 Door Control

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

 **Note**

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

10.8.1 Control Door Status

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

Before You Start

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

 **Note**

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

The doors in the selected access control group will display.

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



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 *Set File Saving Path* in the user manual of the client software.

Result

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

10.8.2 Check Real-Time Access Records

The access records will display in real time, including card swiping records, face recognitions records, fingerprint comparison records, etc. You can view the person information and view the picture captured during access.

Steps

1. Click **Monitoring** and select a group from the drop-down list on the upper-right corner.
The access records triggered at the doors in the selected group will display in real time. You can view the details of the records, including card No., person name, organization, event time, etc.
2. **Optional:** Check the event type and event status so that these events will show in the list if the events are detected. The events of unchecked type or status will not be displayed in the list.
3. **Optional:** Check **Show Latest Event** and the latest access record will be selected and displayed at the top of the record list.
4. **Optional:** Click the event to view the accessed person details, including person pictures (captured picture and profile), person No., person name, organization, phone, contact address, etc.



Note

You can double click the captured picture to enlarge it to view the details.

5. **Optional:** Right click on the column name of the access event table to show or hide the column according to actual needs.

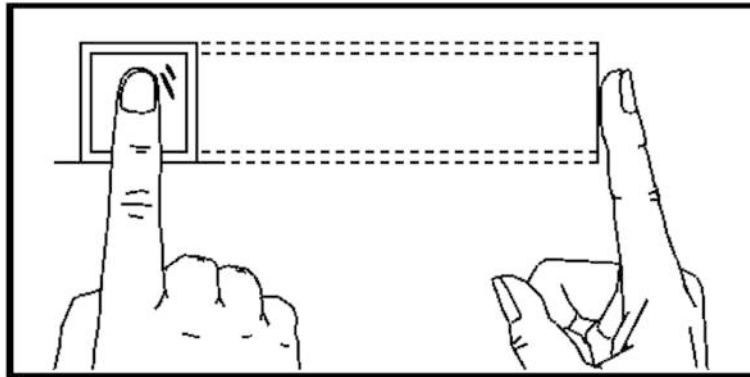
Appendix A. Tips for Scanning Fingerprint

Recommended Finger

Forefinger, middle finger or the third finger.

Correct Scanning

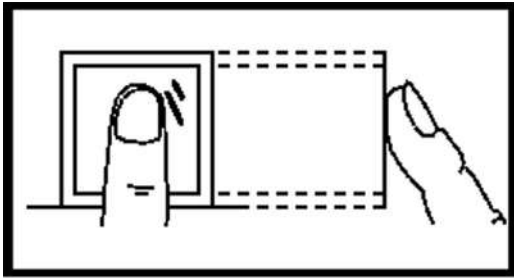
The figure displayed below is the correct way to scan your finger:



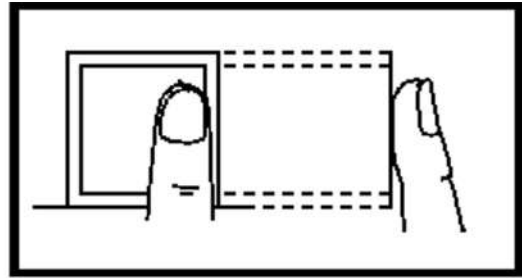
You should press your finger on the scanner horizontally. The center of your scanned finger should align with the scanner center.

Incorrect Scanning

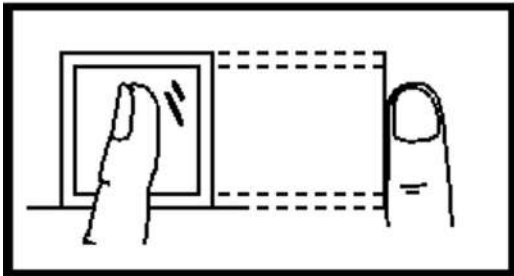
The figures of scanning fingerprint displayed below are incorrect:



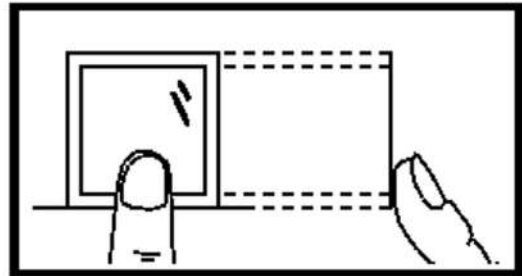
Vertical



Edge I



Side



Edge II

Environment

The scanner should avoid direct sun light, high temperature, humid conditions and rain. When it is dry, the scanner may not recognize your fingerprint successfully. You can blow your finger and scan again.

Others

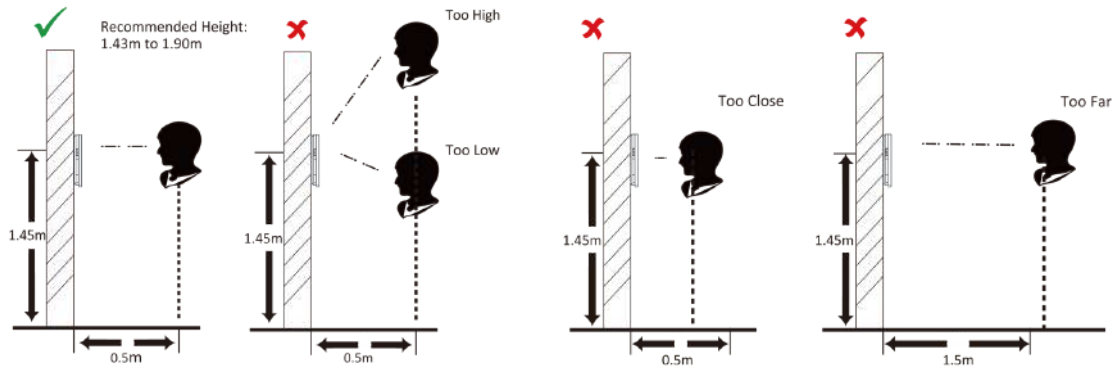
If your fingerprint is shallow, or it is hard to scan your fingerprint, we recommend you to use other authentication methods.

If you have injuries on the scanned finger, the scanner may not recognize. You can change another finger and try again.

Appendix B. Tips When Collecting/Comparing Face Picture

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

Positions (Recommended Distance: 0.5 m)



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.

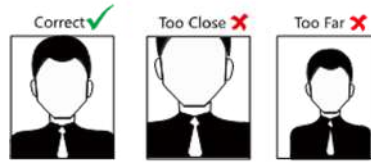
Posture

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 C. Tips for Installation Environment

1. Light Source Illumination Reference Value



Candle: 10Lux

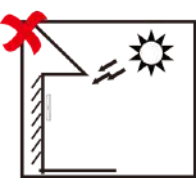


Bulb: 100~850Lux

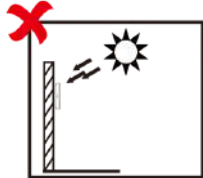


Sunlight: More than 1200Lux

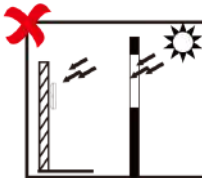
2. Avoid backlight, direct and indirect sunlight



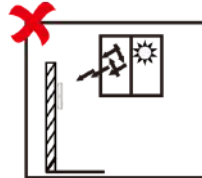
Backlight



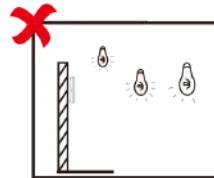
Direct Sunlight



Direct Sunlight
through Window



Indirect Light
through Window



Close to Light

Appendix D. Dimension

The dimension of the device with fingerprint is as follows:

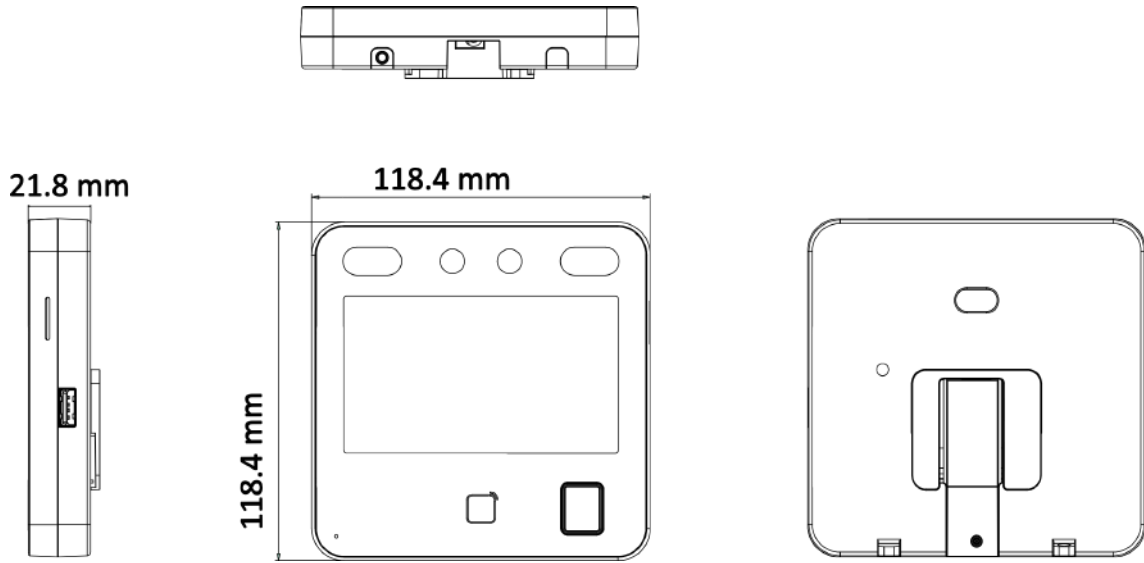


Figure D-1 Dimension (With Fingerprint)

The dimension of the device without fingerprint is as follows:

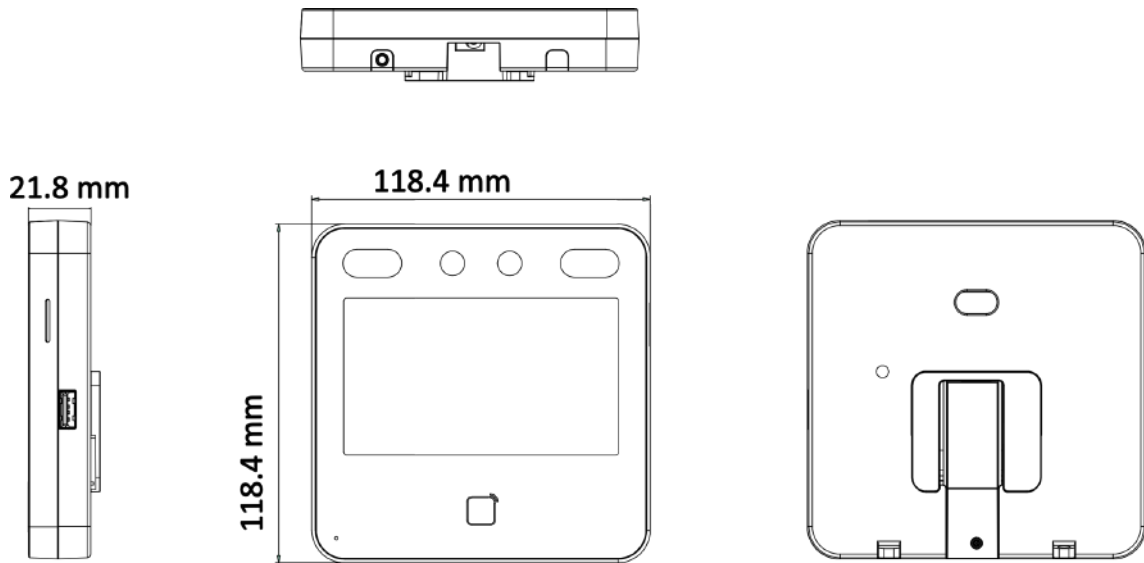


Figure D-2 Dimension (Without Fingerprint)

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

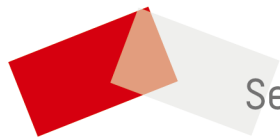
Device Command

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



See Far, Go Further