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User Manual

TrueFace6000FP

Foreword

General

This manual introduces the installation and operations of the Face Recognition Access Controller (hereinafter referred to as the "Access Controller"). Read carefully before using the device, and keep the manual safe for future reference.

Safety Instructions

The following signal words might appear in the manual.

Signal Words	Meaning
⚠ DANGER	Indicates a high potential hazard which, if not avoided, will result in death or serious injury.
⚠ WARNING	Indicates a medium or low potential hazard which, if not avoided, could result in slight or moderate injury.
⚠ CAUTION	Indicates a potential risk which, if not avoided, could result in property damage, data loss, reductions in performance, or unpredictable results.
☞ TIPS	Provides methods to help you solve a problem or save time.
📖 NOTE	Provides additional information as a supplement to the text.

Privacy Protection Notice

As the device user or data controller, you might collect the personal data of others such as their face, fingerprints, and license plate number. You need to be in compliance with your local privacy protection laws and regulations to protect the legitimate rights and interests of other people by implementing measures which include but are not limited: Providing clear and visible identification to inform people of the existence of the surveillance area and provide required contact information.

About the Manual

- The manual is for reference only. Slight differences might be found between the manual and the product.
- We are not liable for losses incurred due to operating the product in ways that are not in compliance with the manual.
- The manual will be updated according to the latest laws and regulations of related jurisdictions. For detailed information, see the paper user's manual, use our CD-ROM, scan the QR code or visit our official website. The manual is for reference only. Slight differences might be found between the electronic version and the paper version.
- All designs and software are subject to change without prior written notice. Product updates

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Revision History

Version	Revision Content	Release Time
V1.0.0	First Release.	November 2022

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might result in some differences appearing between the actual product and the manual. Please contact customer service for the latest program and supplementary documentation.

- There might be errors in the print or deviations in the description of the functions, operations and technical data. If there is any doubt or dispute, we reserve the right of final explanation.
- Upgrade the reader software or try other mainstream reader software if the manual (in PDF format) cannot be opened.
- All trademarks, registered trademarks and company names in the manual are properties of their respective owners.
- Please visit our website, contact the supplier or customer service if any problems occur while using the device.
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Important Safeguards and Warnings

This section introduces content covering the proper handling of the Access Controller, hazard prevention, and prevention of property damage. Read carefully before using the Access Controller, and comply with the guidelines when using it.

Transportation Requirement

⚠️

Transport, use and store the Access Controller under allowed humidity and temperature conditions.

Storage Requirement

⚠️

Store the Access Controller under allowed humidity and temperature conditions.

Installation Requirements

⚠️ **WARNING**

- Do not connect the power adapter to the Access Controller while the adapter is powered on.
- Strictly comply with the local electric safety code and standards. Make sure the ambient voltage is stable and meets the power supply requirements of the Access Controller.
- Do not connect the Access Controller to two or more kinds of power supplies, to avoid damage to the Access Controller.
- Improper use of the battery might result in a fire or explosion.

⚠️

- Personnel working at heights must take all necessary measures to ensure personal safety including wearing a helmet and safety belts.
- Do not place the Access Controller in a place exposed to sunlight or near heat sources.
- Keep the Access Controller away from dampness, dust, and soot.
- Install the Access Controller on a stable surface to prevent it from falling.
- Install the Access Controller in a well-ventilated place, and do not block its ventilation.
- Use an adapter or cabinet power supply provided by the manufacturer.
- Use the power cords that are recommended for the region and conform to the rated power specifications.
- The power supply must conform to the requirements of ES1 in IEC 62368-1 standard and be no higher than PS2. Please note that the power supply requirements are subject to the Access Controller label.
- The Access Controller is a class I electrical appliance. Make sure that the power supply of the Access Controller is connected to a power socket with protective earthing.

Operation Requirements

⚠️

- Check whether the power supply is correct before use.
- Do not unplug the power cord on the side of the Access Controller while the adapter is powered

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on.
- Operate the Access Controller within the rated range of power input and output.
- Use the Access Controller under allowed humidity and temperature conditions.
- Do not drop or splash liquid onto the Access Controller, and make sure that there is no object filled with liquid on the Access Controller to prevent liquid from flowing into it.
- Do not disassemble the Access Controller without professional instruction.
- This product is professional equipment.
- This equipment is not suitable for use in locations where children are likely to be present.

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Table of Contents

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1 Overview

1.1 Introduction

The access controller is an access control panel that supports unlock through faces, passwords, fingerprint, cards, QR code, and their combinations. Based on the deep-learning algorithm, it features faster recognition and higher accuracy. It can work with management platform which meets various needs of customers.

1.2 Features

The main features might differ depending on the models of the Access Controller.

- 4.3 inch glass touch screen with a resolution of 272 × 480.
- 2-MP wide-angle dual-lens camera with IR illumination and DWDR.
- Multiple unlock methods including fingerprint, face, IC card and password.
- Supports 10,000 Users, 10,000 faces, 10,000 Fingerprints, 10,000 Cards, 10.000 passwords,50 administrators, and 300,000 records.
- Recognizes faces 0.3 m to 1.5 m away (0.98 ft-4.92 ft); face recognition accuracy rate of 99.9% and the 1:N comparison time is 0.2 s per person.
- Supports improved security and to protect against the device being forcefully opened, security module expansion is supported.
- Features face mask detection and safety helmet detection.
- Supports visitor QR code and doorbell function.
- Supports making video calls and using the app to receive alarm notifications, remotely unlock doors and to perform other tasks.
- TCP/IP and Wi-Fi connection.
- PoE power supply. (TrueFace6000-PW/ TrueFace6000FP PW)
- IP65 rated.

1.3 Application

It is widely used in parks, communities, business centers and factories, and ideal for places such as office buildings, government buildings, schools and stadiums.

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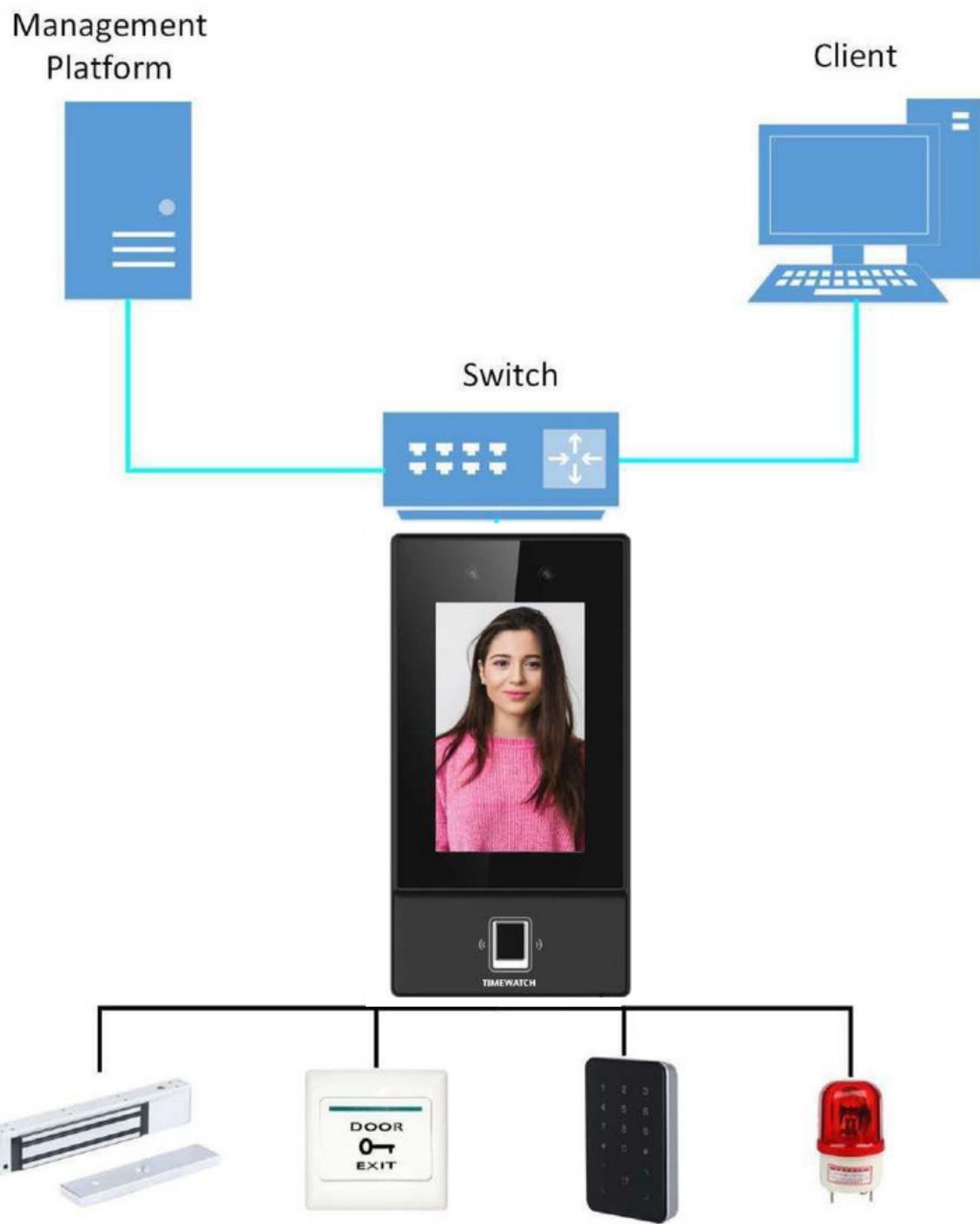
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Figure 1-1 Networking

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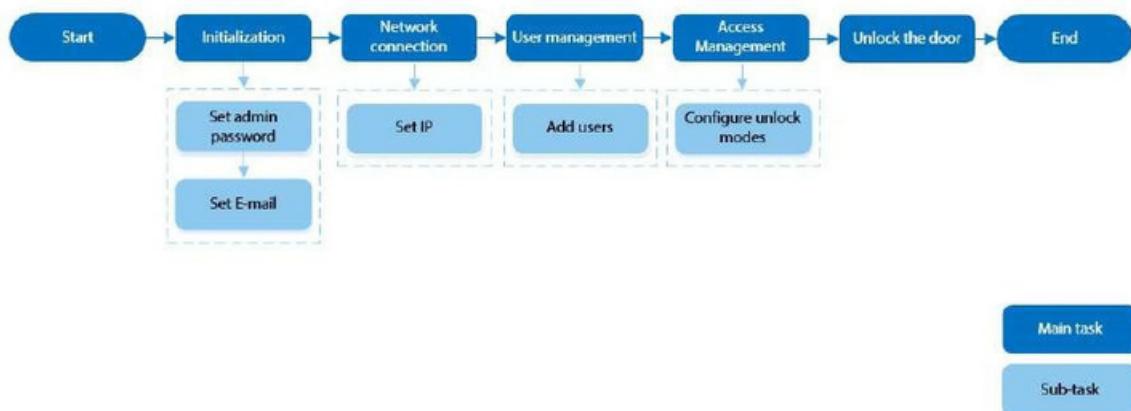
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2 Local Operations

2.1 Basic Configuration Procedure

Figure 2-1 Basic configuration procedure

2.2 Common Icons

Table 2-1 Description of icons

Icon	Description
⌂	Main menu icon.
✓	Confirm icon.
⏮	Turn to the first page of the list.
⏭	Turn to the last page of the list.
‹ or ∧	Turn to the previous page of the list.
› or	Turn to the next page of the list.
←	Return to the previous menu.
ON●	Turned on.
●OFF	Turned off.
🗑	Delete
🔍	Search

2.3 Standby Screen

You can unlock the door through faces, passwords, and QR code. You can also make calls through the intercom function.

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- If there is no operation in 30 seconds, the Access Controller will go to the standby mode.
- This manual is for reference only. Slight differences might be found between the standby screen in this manual and the actual device.

Figure 2-2 Standby screen
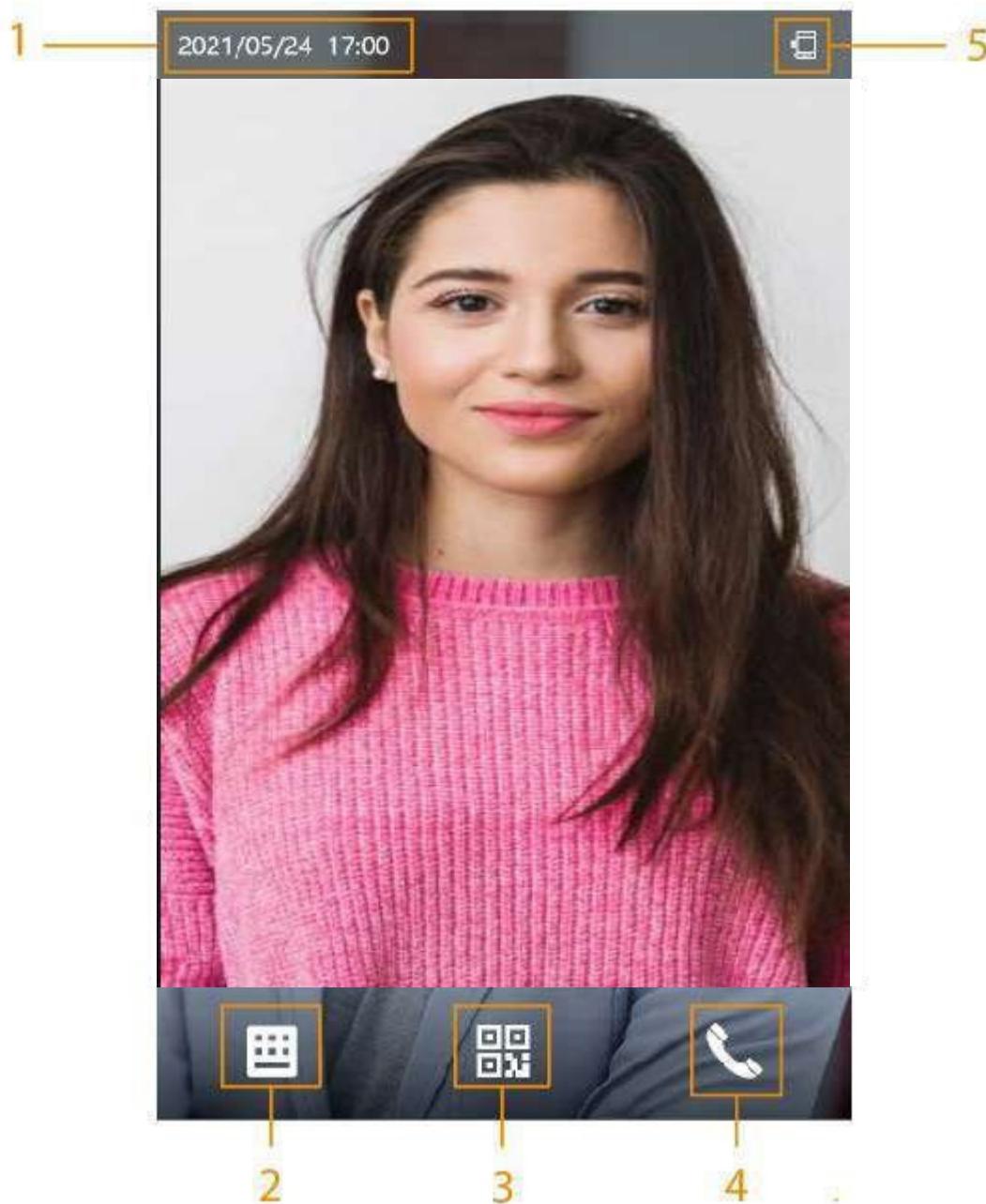
Table 2-2 Home screen description

No.	Name	Description
1	Date and time	Current date and time.
2	Password	Enter user password or administrator password to unlock the door.
3	QR code	Tap the QR code icon and scan QR code to unlock the door.

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No.	Name	Description
4	Intercom	• When the Access Controller functions as a server, it can call the VTO and VTH. • When DSS functions as a server, The Access Controller can call the VTO, VTS and DSS. Tap the icon, enter the room number to call the home owner.
5	Status display	Displays status of Wi-Fi, network and USB.

2.4 Initialization

For the first-time use or after restoring factory defaults, you need to select a language on Access Controller, and then set the password and email address for the admin account. You can use the admin account to enter the main menu of the Access Controller and the webpage.

- If you forget the administrator password, send a reset request to your registered e-mail address.
- The password must consist of 8 to 32 non-blank characters and contain at least two types of characters among upper case, lower case, number, and special character (excluding ' " ; : &).

2.5 Logging In

Log in to the main menu to configure the Access Controller. Only admin account and administrator account can enter the main menu of the Access Controller. For the first-time use, use the admin account to enter the main menu screen and then you can create the other administrator accounts.

Background Information

- admin account: Can log in to the main menu screen of the Access Controller, but has no door access permission.
- Administration account: Can log in to the main menu of the Access Controller and has door access permissions.

Procedure

Step 1   Press and hold the standby screen for 3 seconds.

Step 2   select a verification method to enter the main menu.

- Face: Enter the main menu by face recognition.
- Fingerprint: Enter the main menu by using fingerprint.

    Fingerprint function is only available for the fingerprint model of Access Controller.

- Card Punch: Enter the main menu by swiping card.
- PWD: Enter the user ID and password of the administrator account.
- admin: Enter the admin password to enter the main menu.

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2.6 User Management

You can add new users, view user/admin list and edit user information.

The pictures in this manual are for reference only, and might differ from the actual product.
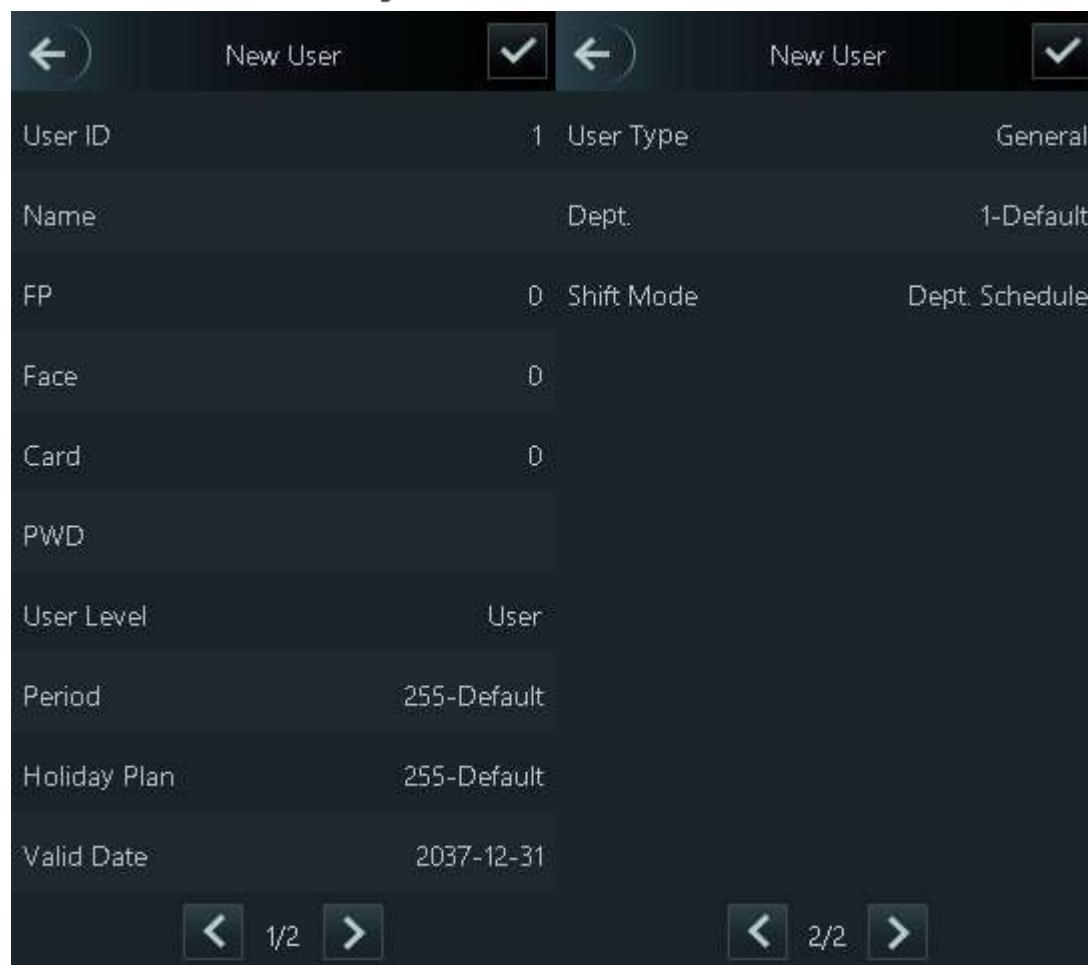
2.6.1 Adding New Users

Procedure

Step 1   On the **Main Menu**, select **User** > **New User**.

Step 2   Configure the parameters on the interface.

Figure 2-3 Add new user

Table 2-3 Parameters description

Parameter	Description
User ID	Enter user IDs. The IDs can be numbers, letters, and their combinations, and the maximum length of the ID is 32 characters. Each ID is unique.
Name	Enter name with at most 32 characters (including numbers, symbols, and letters).

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Parameter	Description
FP	Register fingerprints. A user can register up to 3 fingerprints, and you can set a fingerprint to the duress fingerprint. An alarm will be triggered when the duress fingerprint is used to unlock the door. Only certain models support fingerprint unlock.
Face	Make sure that your face is centered on the image capturing frame, and an image of the face will be captured and analyzed automatically.
Card	A user can register five cards at most. Enter your card number or swipe your card, and then the card information will be read by the access controller. You can enable the **Duress Card** function. An alarm will be triggered if a duress card is used to unlock the door.
PWD	Enter the user password. The maximum length of the password is 8 digits.
User Level	You can select a user level for new users. • **User**: Users only have door access permission. • **Admin**: Administrators can unlock the door and configure the access controller.
Period	People can unlock the door only during the defined period.
Holiday Plan	People can unlock the door only during the defined holiday plan.
Valid Date	Set a date on which the access permissions of the person will be expired.
User Type	• **General**: General users can unlock the door. • **Blocklist**: When users in the blocklist unlock the door, service personnel will receive a notification. • **Guest**: Guests can unlock the door within a defined period or for certain amount of times. After the defined period expires or the unlocking times runs out, they cannot unlock the door. • **Patrol**: Patrol users will have their attendance tracked, but they have no unlocking permissions. • **VIP**: When VIP unlock the door, service personnel will receive a notice. • **Others**: When they unlock the door, the door will stay unlocked for 5 more seconds. • Custom User 1/Custom User 2: Same with general users.
Dept.	Set departments.
Shift Mode	Select shift modes.

<u>Step 3</u>   Tap ✔.

2.6.2 Viewing User Information

You can view user/admin list and edit user information.

Procedure

Step 1   On the **Main Menu**, select **User** > **User List**, or select **User** > **Admin List**.

Step 2   View all added users and admin accounts.

- 🔐: Unlock through password.
- 💳: Unlock through swiping card.
- 👤: Unlock through face recognition.
- 🔘: Unlock through fingerprint.

Related Operations

On the **User** screen, you can manage the added users.

- Search for users: Tap 🔍 and then enter the username.
- Edit users: Tap the user to edit user information.
- Delete users
  - ◇ Delete individually: Select a user, and then tap 🗑.
  - ◇ Delete in batches:
    - ○ On the **User List** screen, tap 🗑 to delete all users.
    - ○ On the **Admin List** screen, tap 🗑 to delete all admin users.
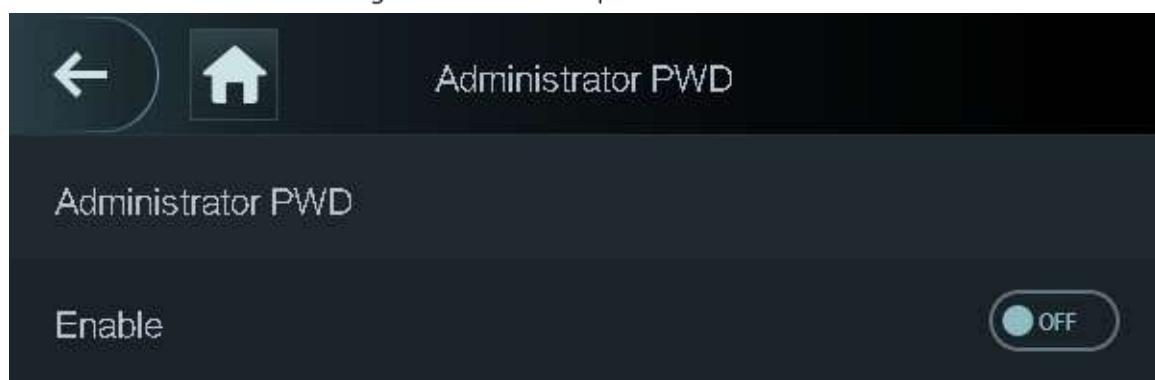
2.6.3 Configuring Administrator Password

You can unlock the door by only entering the admin password. Admin password is not limited by user types. Only one admin password is allowed for one device.

Procedure

Step 1   On the **Main Menu** screen, select **User** > **Administrator PWD**.

Figure 2-4 Set admin password

Step 2   Tap **Administrator PWD**, and then enter the administrator password.

Step 3   Tap ✓.

Step 4   Turn on the administrator function.

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2.7 Network Communication

Configure the network, serial port and Wiegand port to connect the Access Controller to the network.

The serial port and the wiegand port might differ depending on models of Access Controller.

2.7.1 Configuring IP

Set IP address for the Access Controller to connect it to the network. After that, you can log in to the webpage and the management platform to manage the Access Controller.

Procedure

Step 1   On the **Main Menu**, select **Connection** > **Network** > **IP Address**.

Step 2   Configure IP Address.

Figure 2-5 IP address configuration
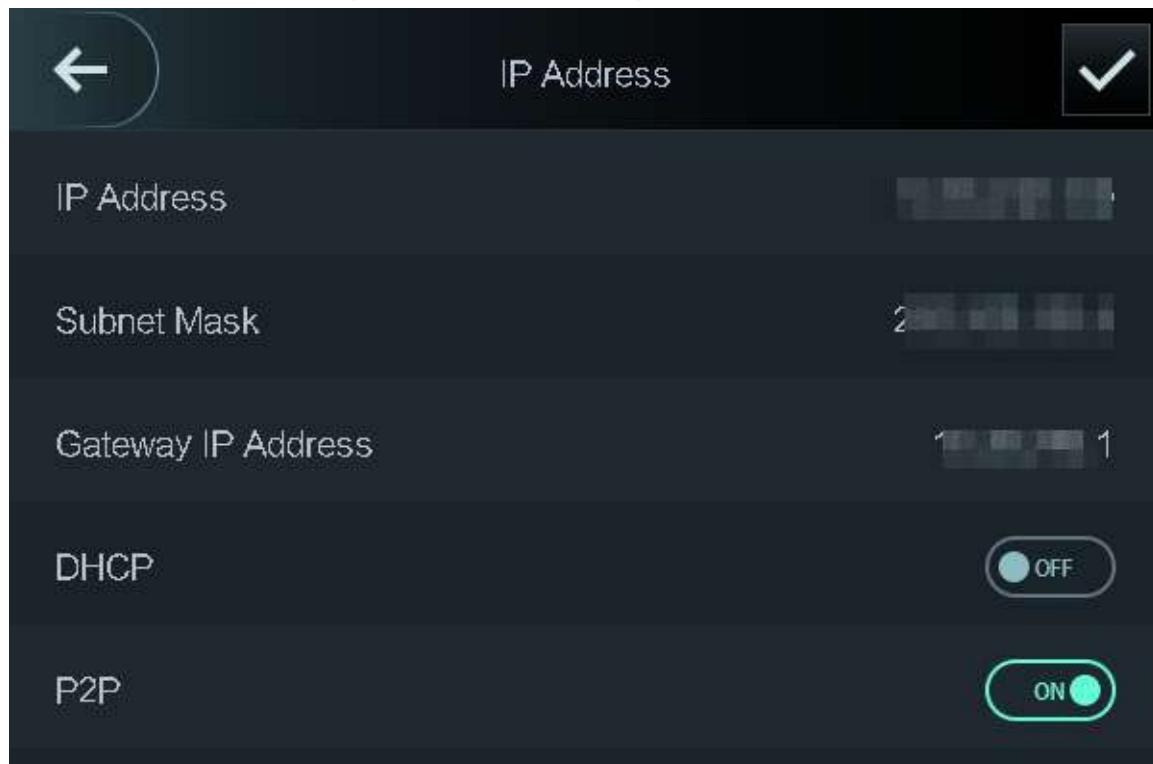
Table 2-4 IP configuration parameters

Parameter	Description
IP Address/Subnet Mask/Gateway Address	The IP address, subnet mask, and gateway IP address must be on the same network segment.
DHCP	It stands for Dynamic Host Configuration Protocol. When DHCP is turned on, the Access Controller will automatically be assigned with IP address, subnet mask, and gateway.

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Parameter	Description
P2P	P2P (peer-to-peer) technology enables users to manage devices without applying for DDNS, setting port mapping or deploying transit server.

2.7.2 Active Register

You can turn on the automatic registration function to access the Access Controller through the management platform.

Background Information

⚠️
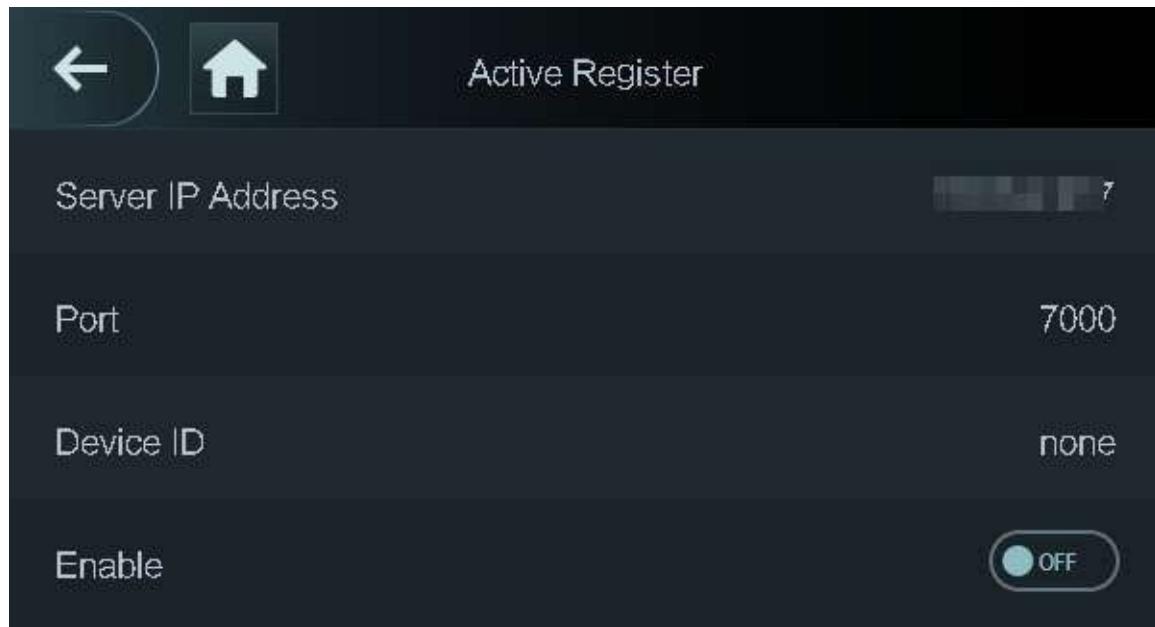
The management platform can clear all personnel configurations and initialize the Access Controller. To avoid data loss, keep the management platform permissions properly.

Procedure

Step 1　On the **Main Menu**, select **Connection** > **Network** > **Active Register**.

Figure 2-6 Auto register

Step 2　Turn on the automatic registration function and set the parameters.

Table 2-5 Auto registration

Parameter	Description
Server Address	The IP address of the management platform.
Port	The port No. of the management platform.
Device ID	Enter the device ID (user defined). When you add the Access Controller to the management platform, the device ID on the management platform must conform to the defined device ID on the Access Controller.

Step 3　Enable the active register function.

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2.7.3 Configuring Wi-Fi

You can connect the Access Controller to the network through Wi-Fi network.

Procedure

Step 1   On the **Main Menu**, select **Connection** > **Network** > **WiFi**.

Step 2   Turn on Wi-Fi.

Wi-Fi function is only available on select models.

Step 3   Tap 🔍 to search available wireless networks.

Step 4   Select a wireless network and enter the password.

If no Wi-Fi is searched, tap **SSID** to enter the name of Wi-Fi.

Step 5   Tap ✅

2.7.4 Configuring Serial Port

Procedure

Step 1   On the **Main Menu**, select **Connection** > **Serial Port**.

Step 2   Select a port type.

- Select **Reader** when the Access Controller connects to a card reader.
- Select **Controller** when the Access Controller functions as a card reader, and the Access Controller will send data to the Access Controller to control access.

Output Data type:

- ◇ Card: Outputs data based on card number when users swipe card to unlock door; outputs data based on user's first card number when they use other unlock methods.
- ◇ No.: Outputs data based on the user ID.

- Select **Reader (OSDP)** when the Access Controller is connected to a card reader based on OSDP protocol.
- Security Module: When a security module is connected, the exit button, lock will be not effective.

2.7.5 Configuring Wiegand

The access controller allows for both Wiegand input and output mode.

Procedure

Step 1   On the **Main Menu**, select **Connection** > **Wiegand**.

Step 2   Select a Wiegand.

- Select **Wiegand Input** when you connect an external card reader to the Access Controller.
- Select **Wiegand Output** when the Access Controller functions as a card reader, and you need to connect it to a controller or another access terminal.

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Figure 2-7 Wiegand output

Table 2-6 Description of Wiegand output

Parameter	Description
Wiegand Output Type	Select a Wiegand format to read card numbers or ID numbers. • **Wiegand26**: Reads three bytes or six digits. • **Wiegand34**: Reads four bytes or eight digits. • **Wiegand66**: Reads eight bytes or sixteen digits.
Pulse Width	Enter the pulse width and pulse interval of Wiegand output.
Pulse Interval	
Output Data Type	Select the type of output data. • **User ID**: Outputs data based on user ID. • **Card No.:** Outputs data based on user's first card number, and the data format is hexadecimal or decimal.

2.8 Access Management

You can configure door access parameters, such as unlocking modes, alarm linkage, door schedules.

2.8.1 Configuring Unlock Combinations

Use card, fingerprint, face or password or their combinations to unlock the door.

Background Information

Unlock modes might differ depending on the actual product.

Procedure

Step 1   Select **Access** > **Unlock Mode** > **Unlock Mode**.

Step 2   Select unlocking methods.

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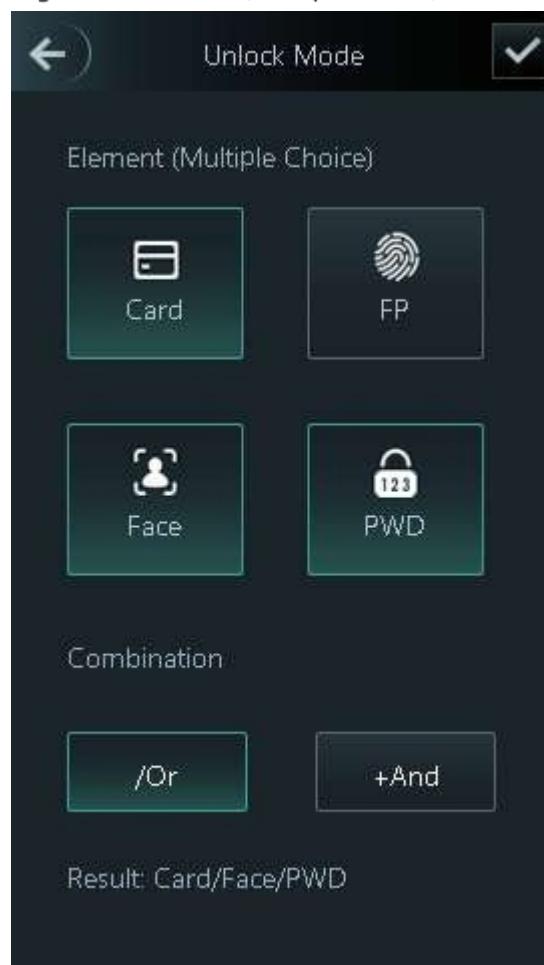
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To cancel your selection, tap the selected method again.

Step 3   Tap +**And** or **/Or** to configure combinations.

- **+And**: Verify all the selected unlocking methods to open the door.
- **/Or**: Verify one of the selected unlocking methods to open the door.

Figure 2-8 Element (multiple choice)

Step 4   Tap ☑ to save changes.

2.8.2 Configuring Alarm

An alarm will be triggered when abnormal access events occur.

Procedure

Step 1   Select **Access** > **Alarm**.

Step 2   Enable the alarm type.

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Figure 2-9 Alarm
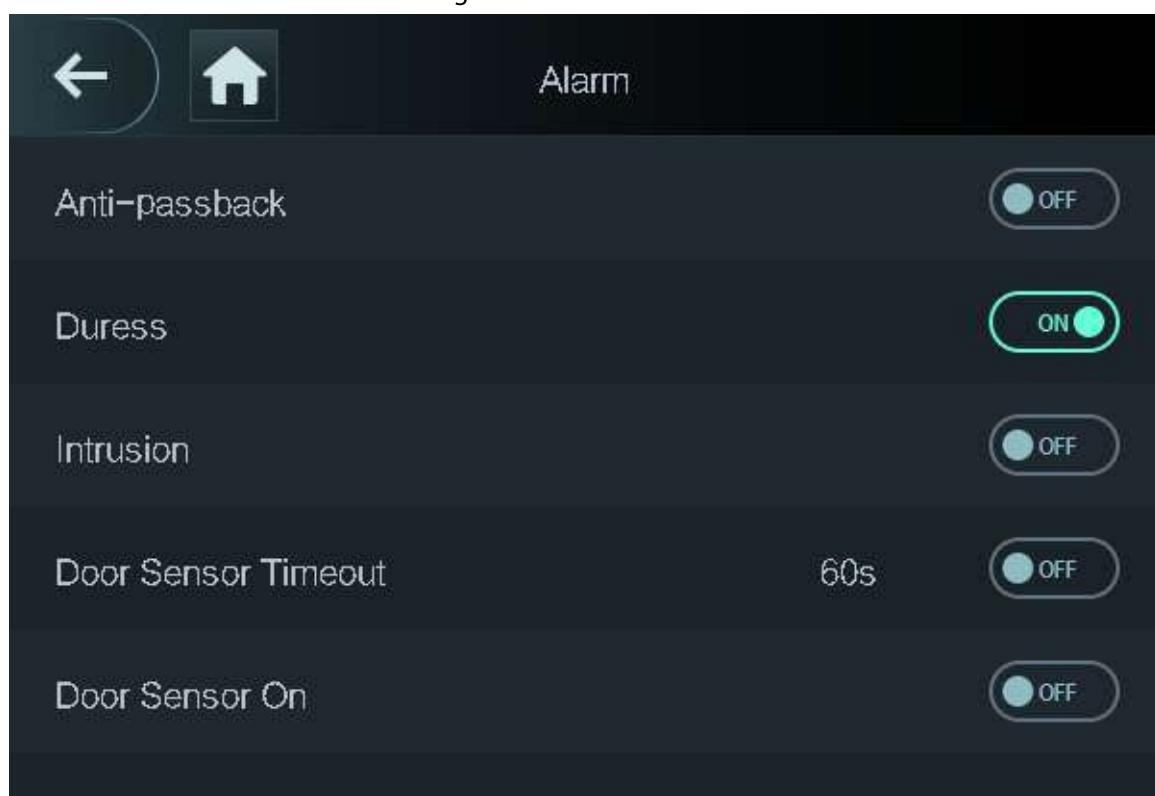
Table 2-7 Description of alarm parameters

Parameter	Description
Anti-passback	Users need to verify their identities both for entry and exit; otherwise an alarm will be triggered. It helps prevents a card holder from passing an access card back to another person so they gain entry. When anti-passback is enabled, the card holder must leave the secured area through an exit reader before system will grant another entry. • If a person enters after authorization and exits without authorization, an alarm will be triggered when they attempt to enter again, and access is denied at the same time. • If a person enters without authorization and exits after authorization, an alarm will be triggered when the they attempt to enter again, and access is denied at the same time.
Duress	An alarm will be triggered when a duress card, duress password or duress fingerprint is used to unlock the door.
Intrusion	When door sensor is enabled, an intrusion alarm will be triggered if the door is opened abnormally.
Door Sensor Timeout	A timeout alarm will be triggered if the door remains unlocked longer than the defined door sensor timeout, which ranges from 1 to 9999 seconds.
Door Sensor On	Intrusion and timeout alarms can be triggered only after door sensor is enabled.

2.8.3 Configuring Door Status

Procedure

Step 1   On the **Main Menu** screen, select **Access** > **Door Status**.

Step 2   Set door status.
- **NO**: The door remains unlocked all the time.
- **NC**: The door remains locked all the time.
- **Normal**: If **Normal** is selected, the door will be unlocked and locked according to your settings.

2.8.4 Configuring Lock Holding Time

After a person is granted access, the door will remain unlocked for a defined time for them to pass through.

Procedure

Step 1   On the **Main Menu**, select **Access** > **Lock Holding Time.**

Step 2   Enter the unlock duration.

Step 3   Tap ☑ to save changes.

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2.10 System

2.10.1 Configuring Time

Configure system time, such as date, time, and NTP.

Procedure

Step 1   On the **Main Menu**, select **System** > **Time**.

Step 2   Configure system time.

Figure 2-18 Time

Table 2-11 Description of time parameters

Parameter	Description
24-hour System	The time is displayed in 24-hour format.
Date Setting	Set up the date.
Time	Set up the time.
Date Format	Select a date format.

Parameter	Description
DST Setting	1. Tap **DST Setting** 2. Enable DST. 3. Select **Date** or **Week** from the **DST** Type list. 4. Enter start time and end time. 5. tap ✔.
NTP Check	A network time protocol (NTP) server is a machine dedicated as the time sync server for all client computers. If your computer is set to sync with a time server on the network, your clock will show the same time as the server. When the administrator changes the time (for daylight savings), all client machines on the network will also update. 1. Tap **NTP Check**. 2. Turn on the NTP check function and configure parameters. • **Server IP Address**: Enter the IP address of the NTP server, and the Access Controller will automatically sync time with NTP server. • **Port**: Enter the port of the NTP server. • **Interval (min)**: Enter the time synchronization interval.
Time Zone	Select the time zone.

2.10.2 Configuring Face Parameters

Procedure

Step 1　On the main menu, select **System** > **Face Parameter**.

Step 2　Configure the face parameters, and then tap ✔.

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Figure 2-19 Face parameter (01)
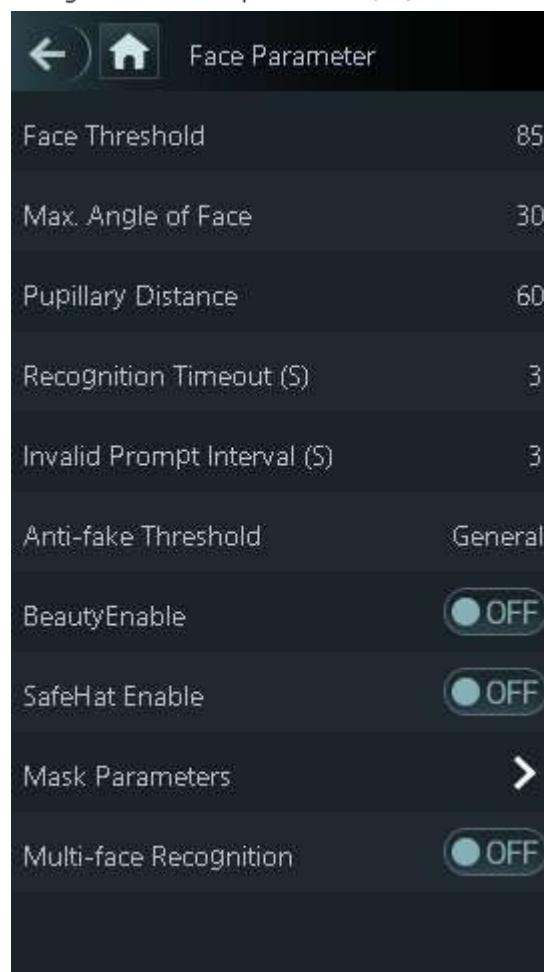
Table 2-12 Description of face parameters

Name	Description
Face Threshold	Adjust the face recognition accuracy. Higher threshold means higher accuracy.
Max. Angle of Face	Set the maximum face pose angle for face detection. Larger value means larger face angle range. If the face pose angle is out of the defined range, the face detection box will not appear.
Pupillary Distance	Face images require desired pixels between the eyes (called pupillary distance) for successful recognition. The default pixel is 45. The pixel changes according to the face size and the distance between faces and the lens. If an adult is 1.5 meters away from the lens, the pupillary distance can be 50 px-70 px.
Recognition Timeout (S)	If a person with access permission has their face successfully recognized, the Access Controller will prompt face recognition success. You can enter the prompt interval time.
Invalid Face Prompt Interval (S)	If a person without access permission attempts to unlock the door for several times in the defined interval, the Access Controller will prompt face recognition failure. You can enter the prompt interval time.

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Name	Description
Anti-fake Threshold	Avoid false face recognition by using a photo, video, mask or a different substitute for an authorized person's face. • Close: Turns off this function. • General: Normal level of anti-spoofing detection means higher door access rate for people with face masks. • High: Higher level of anti-spoofing detection means higher accuracy and security. • Extremely High: Extremely high level of anti-spoofing detection means extremely high accuracy and security.
BeautyEnable	Beautify captured face images.
SafeHat Enable	Detects safe hats.
Mask Parameters	• Mask mode: ◇ **No detect**: Mask is not detected during face recognition. ◇ **Mask reminder**: Mask is detected during face recognition. If the person is not wearing a mask, the system will remind them to wear masks, and access is allowed. ◇ **Mask intercept**: Mask is detected during face recognition. If a person is not wearing a mask, the system will remind them to wear masks, and access is denied. • Mask Recognition Threshold: Higher threshold means higher mask detection accuracy.
Multi-face Recognition	Supports detecting 4 face images at the same time, and the unlock combinations mode become invalid. The door is unlocked after any one of them gain access.

2.10.3 Setting Volume

You can adjust the volume of the speaker and microphone.

Procedure

Step 1   On the **Main Menu**, select **System** > **Volume**.

Step 2   Select **Beep Volume** or **Mic Volume**, and then tap ⊞ or ⊟ to adjust the volume.

2.10.4 (Optional) Configuring Fingerprint Parameters

Configure fingerprint detection accuracy. Higher value means that higher threshold of similarity and

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higher accuracy.

Background Information

This function is only available on Access Controller that supports fingerprint unlock.

Procedure

Step 1   On the **Main Menu**, select **System** > **FP Parameter**.

Step 2   Tap ➕ or ➖ to adjust the value.

2.10.5 Screen Settings

Configure screen off time and logout time.

Procedure

Step 1   On the **Main Menu**, select **System** > **Screen settings**.

Step 2   Tap **Logout Time** or **Screen Off Timeout**, and then tap ➕ or ➖ to adjust the time.

2.10.6 Restoring Factory Defaults

Procedure

Step 1   On the **Main Menu**, select **System** > **Restore Factory**.

Step 2   Restore factory defaults if necessary.

- **Restore Factory**: Resets all configurations and data.
- **Restore Factory (Save user & log)**: Resets configurations except for user information and logs.

2.10.7 Restart the Device

On the **Main Menu**, select **System** > **Reboot**, and the Access Controller will be restarted.

2.10.8 Configuring the Language

Change the language on the Access Controller. On the **Main Menu**, select **System** > **Language**, select the language for the Access Controller.

2.11 USB Management

You can use a USB to update the Access Controller, and export or import user information through USB.

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- Make sure that a USB is inserted to the Access Controller before you export data or update the system. To avoid failure, do not pull out the USB or perform any operation of the Access Controller during the process.
- You have to use a USB to export the information from an Access Controller to other devices. Face images are not allowed to be imported through USB.

2.11.1 Exporting to USB

Background Information

You can export data from the Access Controller to a USB. The exported data is encrypted and cannot be edited.

Procedure

Step 1   On the **Main Menu**, select **USB** > **USB Export**.

Step 2   Select the data type you want to export, and then tap **OK**.

2.11.2 Importing From USB

Background Information

You can import data from USB to the Access Controller.

Procedure

Step 1   On the **Main Menu**, select **USB** > **USB Import**.

Step 2   Select the data type that you want to export, and then tap **OK**.

2.11.3 Updating System

Background Information

Use a USB to update the system of the Access Controller.

Procedure

Step 1   Rename the update file to "update.bin", put it in the root directory of the USB, and then insert the USB to the Access Controller.

Step 2   On the **Main Menu**, select **USB** > **USB Update**.

Step 3   Tap **OK**.
           The Access Controller will restart when the updating completes.

2.12 Configuring Features

On the **Main Menu** screen, select **Features.**

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Figure 2-20 Features
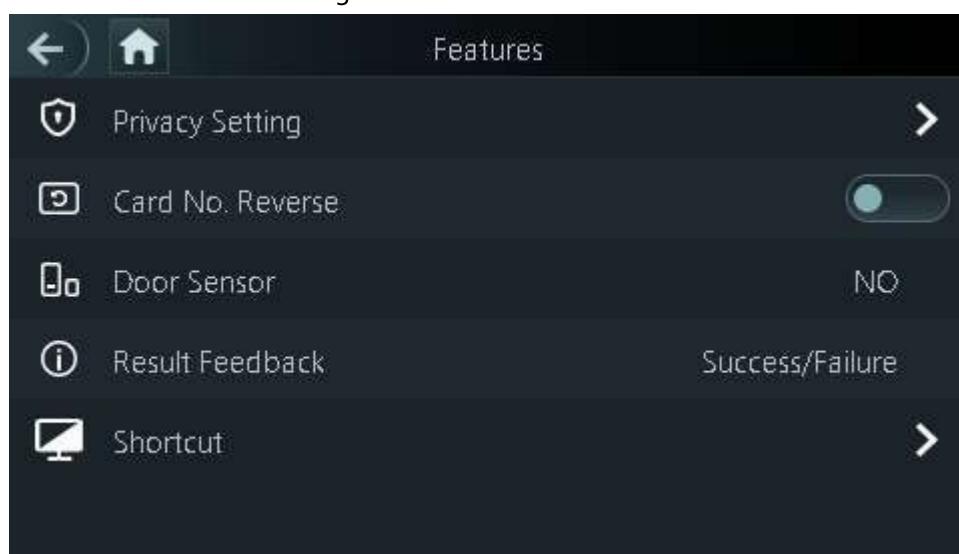
Table 2-13 Description of features

Parameter	Description
Private Setting	• PWD Reset Enable: You can enable this function to reset password. The PWD Reset function is enabled by default. • HTTPS: Hypertext Transfer Protocol Secure (HTTPS) is a protocol for secure communication over a computer network. When HTTPS is enabled, HTTPS will be used to access CGI commands; otherwise HTTP will be used. When HTTPS is enabled, the access controller will restart automatically. • CGI: Common Gateway Interface (CGI) offers a standard protocol for web servers to execute programs similarly to console applications running on a server that dynamically generates web pages. The CG I is enabled by default. • SSH: Secure Shell (SSH) is a cryptographic network protocol for operating network services securely over an unsecured network. • Capture Photos: Face images will be captured automatically when people unlock the door. The function is enabled by default. • Clear Captured Photos: Delete all automatically captured photos.
Card No. Reverse	When the Access Terminal connects to a third-party device through Wiegand input, and the card number read by the Access Terminal is in the reserve order from the actual card number, you need to turn on the **Card No. Reverse** function.

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Parameter	Description
Door Sensor	NC: When the door opens, the circuit of the door sensor circuit is closed. NO: When the door opens, the circuit of the door sensor circuit is open. Intrusion and overtime alarms are triggered only after door detector is turned on.
Result Feedback	• Success/Failure: Only displays success or failure on the standby screen. • Only Name: Displays user ID, name and authorization time after access granted; displays not authorized message and authorization time after access denied. • Photo&Name: Displays user's registered face image, user ID, name and authorization time after access granted; displays not authorized message and authorization time after access denied. • Photos&Name: Displays the captured face image and a registered face image of a user, user ID, name and authorization time after access granted; displays not authorized message and authorization time after access denied.

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Parameter	Description

Shortcut	Select identity verification methods on the standby screen.
	• Password: The icon of the password unlock method is displayed on the standby screen.
	• QR code: The icon of the QR code unlock method is displayed on the standby screen.
	• Doorbell: After the doorbell function is turned on, doorbell icon is displayed on the standby screen.
	  ◇ RingBell: Tao the ring bell icon on the standby screen, and the Access Controller rings.
	  ◇ Alarm Linkage: Turn on the alarm linkage function, and then doorbell rings.
	
	This function is only available on select models.
	  ◇ RingBell Config: Select the ring bell 1 or ring bell 2.
	  ◇ RingBell Times(s): Set ring time (1-30 s). The default value is 3.
	• Call: The icon of call function is displayed on the standby screen.
	• Call Type:
	  ◇ Call Room: Tap the call icon on the standby mode and enter the room number to make calls.
	  ◇ Call Management Center: Tap the call icon on the standby mode, and then call the management center.
	  ◇ Custom call room: Enter the number of room, and then you can tap the call icon on the standby screen to call the defined room number.
	
	Make sure the Access Controller was added to DMSS.

2.13 Unlocking the Door

You can unlock the door through faces, passwords, fingerprint, cards, and more.

2.13.1 Unlocking by Cards

Place the card at the swiping area to unlock the door.

2.13.2 Unlocking by Face

Verify the identity of an individual by detecting their faces. Make sure that the face is centered on the face detection frame.

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2.13.3 Unlocking by User Password

Enter the user ID and password to unlock the door.

Procedure

Step 1   Tap ⊞ on the standby screen.

Step 2   tap **PWD Unlock**, and then enter the user ID and password.

Step 3   Tap **Yes**.

2.13.4 Unlocking by Administrator Password

Enter only the administrator password to unlock the door. The access controller only allows for one administrator password. Using administrator password to unlock the door without being subject to user levels, unlock modes, periods, holiday plans, and anti-passback except for normally closed door. One device allows for only one admin password.

Prerequisites

The administrator password was configured. For details, see "2.6.3 Configuring Administrator Password".

Procedure

Step 1   Tap ⊞ on the standby screen.

Step 2   Tap **Admin PWD**, and then enter the admin password.

Step 3   Tap ☑.

Administrator password cannot be used to unlock the door status is set to NC.

2.13.5 Unlocking by QR code

Procedure

Step 1   On the standby screen, tap 🔲.

Step 2   Place your QR code in front of the lens.

2.13.6 Unlocking by Fingerprint

Place you finger on the fingerprint scanner. This function is only available on the Access Controller that supports fingerprint unlocking.

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2.14 System Information

You can view data capacity and device version.

2.14.1 Viewing Data Capacity

On the **Main Menu**, select **System Info** > **Data Capacity**, you can view storage capacity of each data type.

2.14.2 Viewing Device Version

On the **Main Menu**, select **System Info** > **Data Capacity**, you can view the device version, such as serial No., software version and more.

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3 Web Operations

On the webpage, you can also configure and update the Access Controller.

Web configurations differ depending on models of the Access Controller.

3.1 Initialization

Initialize the Access Controller when you log in to the webpage for the first time or after the Access Controller is restored to the factory defaults.

Prerequisites

Make sure that the computer used to log in to the webpage is on the same LAN as the Access Controller.

Background Information

Set a password and an email address before logging in to the webpage for the first time.

Procedure

Step 1   Open a browser, go to the IP address (the default address is 192.168.1.108) of the Access Controller.

We recommend you use the latest version of Chrome or Firefox.

Step 2   Set the password and email address according to the screen instructions.

- The password must consist of 8 to 32 non-blank characters and contain at least two types of the following characters: upper case, lower case, numbers, and special characters (excluding ' " ; : &). Set a high-security password by following the password strength prompt.
- Keep the password safe after initialization and change the password regularly to improve security.

3.2 Logging In

Procedure

Step 1   Open a browser, enter the IP address of the Access Controller in the **Address** bar, and press the Enter key.

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Figure 3-1 Login

Step 2   Enter the user name and password.

- The default administrator name is admin, and the password is the one you set up during initialization. We recommend you change the administrator password regularly to increase security.
- If you forget the administrator login password, you can click **Forget password?** For details, see "3.3 Resetting the Password".

Step 3   Click **Login**.

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3.4 Configuring Door Parameter

Configure the access control parameters.

Procedure

Step 1   Log in to the webpage.

Step 2   Select **Door Parameter**.

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Figure 3-3 Door parameter
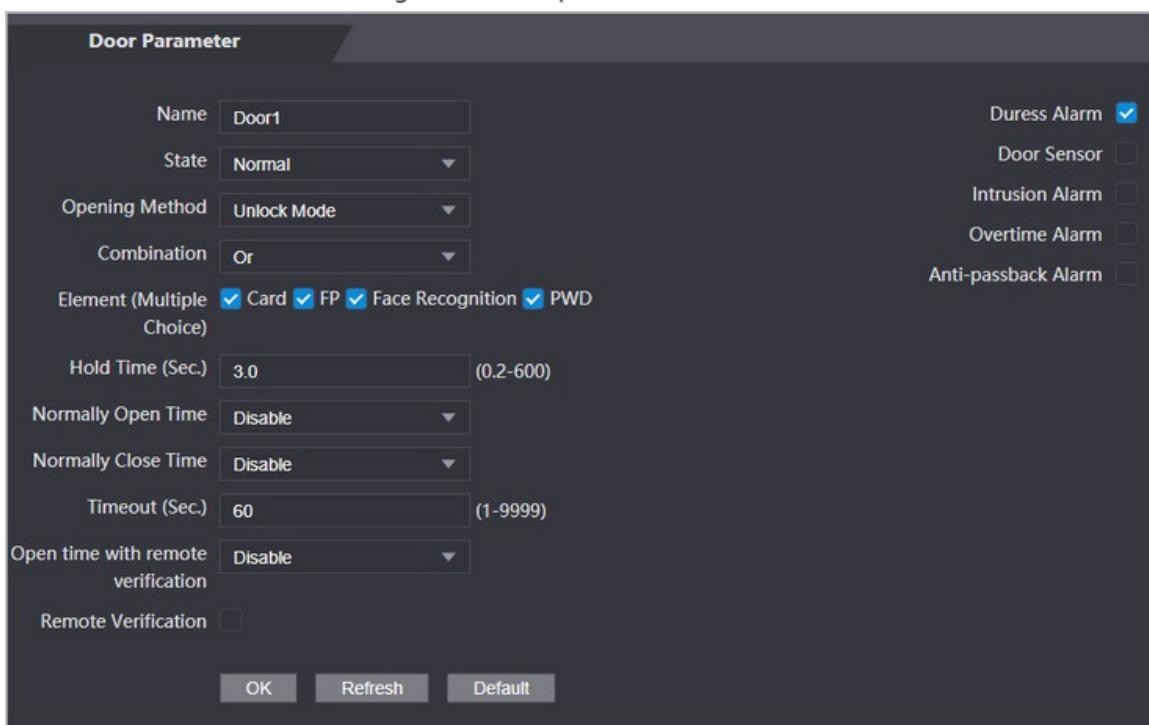
Table 3-1 Description of door parameters

Parameter	Description
Name	Enter a name of the door.
State	Set the door status. • **NO**: The door remains unlocked all the time. • **NC**: The door remains locked all the time. • **Normal**: If **Normal** is selected, the door will be unlocked and locked according to your settings.
Opening Method	• Unlock by Period: Set different unlock methods for different periods. • Group Combination: The user can unlock the door only after defined users or user groups grant access. • Unlock Mode: Set unlock combinations.
Hold Time (Sec.)	After a person is granted access, the door will remain unlocked for a defined time for them to pass through. It ranges from 0.2 s to 600 s.
Normally Open Time	The door remains open or closed during the defined period.
Normally Close Time	
Timeout (Sec.)	A timeout alarm will be triggered if the door remains unlocked for longer time than this value.
Open with remote verification	Set the remote verification door opening period. After users gain access on the Access Controller, they must also be granted access from the management platform before the door unlocks.
Duress Alarm	An alarm will be triggered when a duress card or duress password is used to unlock the door.

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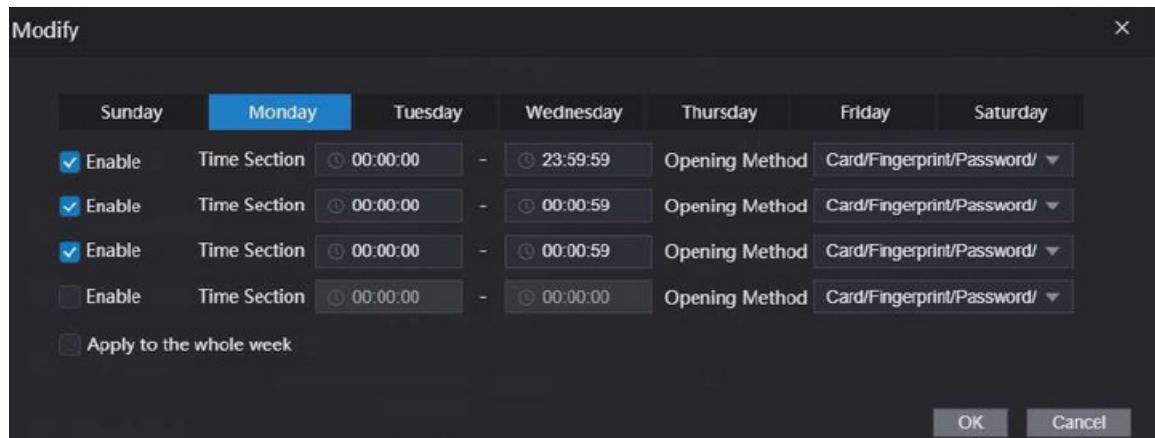
Parameter	Description
Door Sensor	Intrusion and overtime alarms can be triggered only after **Door Sensor** is enabled.
Intrusion Alarm	When **Door Sensor** is enabled, an intrusion alarm will be triggered if the door is opened abnormally.
Overtime Alarm	A timeout alarm will be triggered if the door remains unlocked for longer time than the **Timeout (Sec)**.
Anti-passback Alarm	Users need to verify their identities both for entry and exit; otherwise an alarm will be triggered. It helps prevents a card holder from passing an access card back to another person so they gain entry. When anti-passback is enabled, the card holder must leave the secured area through an exit reader before system will grant another entry. ● If a person enters after authorization and exits without authorization, an alarm will be triggered when they attempt to enter again, and access is denied at the same time. ● If a person enters without authorization and exits after authorization, an alarm will be triggered when the they attempt to enter again, and access is denied at the same time.

Step 3　Configure the opening method.

- Unlock by Period
    1. In the **Opening Method** list, select **Unlock by Period**, and then click ⚙.

Figure 3-4 Time section parameter

2. Configure the time and the opening method for a time section. You can configure up to four time sections for a single day.
    3. Select **Apply to the whole week** to copy the defined time to the rest of days.
- Group Combination
    1. In the **Opening Method** list, select **Group Combination**, and then click ⚙.
    2. Click **Add**.
    3. Select an unlocking method in the **Opening Method** list., and enter the number of valid users. If the number of valid users is 2, and there are 3 users in the defined user list. Two users in the list are required to grant access.

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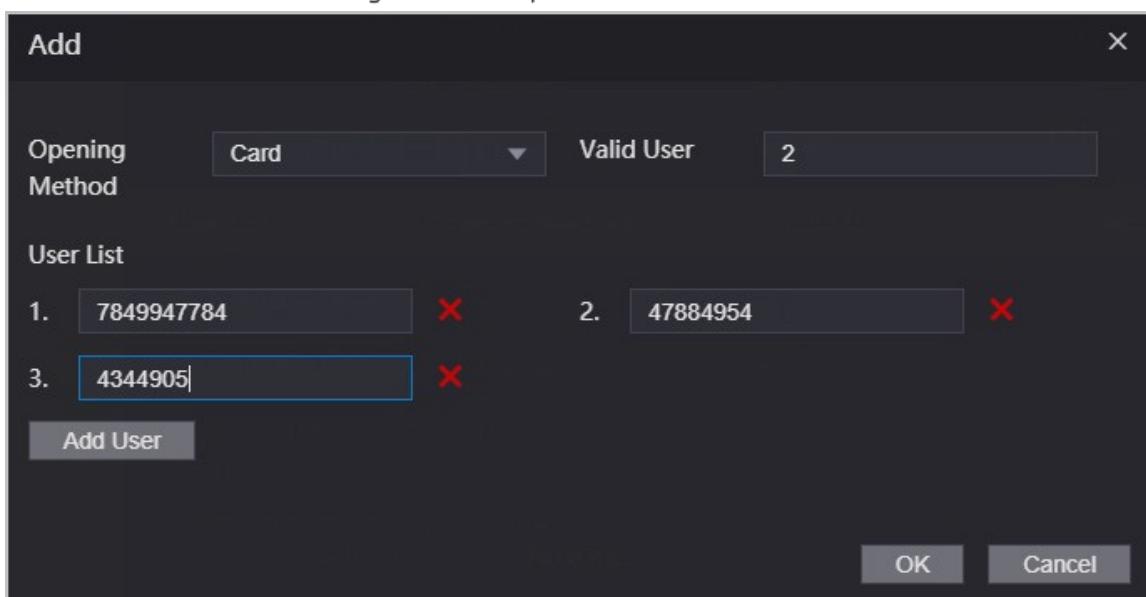
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Figure 3-5 Group Combination

4. In the **User List** area, click **Add User**, enter the user ID of existing users.

◇ VIP, patrol, and blocklist users cannot be added.
◇ Valid users in all groups must verify their identities to grant access in the group order.

5. Click **OK**.
- Unlock mode
  1. In the **Opening Method** list, select **Group Combination**, and then click .
  2. In the **Combination** list, select **Or** or **And**.
     ◇ **And** means you must use all the selected methods to open the door.
     ◇ **Or** means you can open the door with any of the selected methods.
  3. In the **Element** list, select the unlock method.

Step 4   Configure other parameters.
Step 5   Click **OK**.

3.5 Intercom Configuration

The Access Controller can function as a door station to realize video intercom function.

3.5.1 Configuring SIP Server

When connected to the same SIP server, all VTOs and VTHs can call each other. You can use the

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Access Controller or other VTOs or the management platform as the SIP server.

Background Information

When the Access Controller functions as the SIP server, it can connect up to 500 access control devices and VTHs.
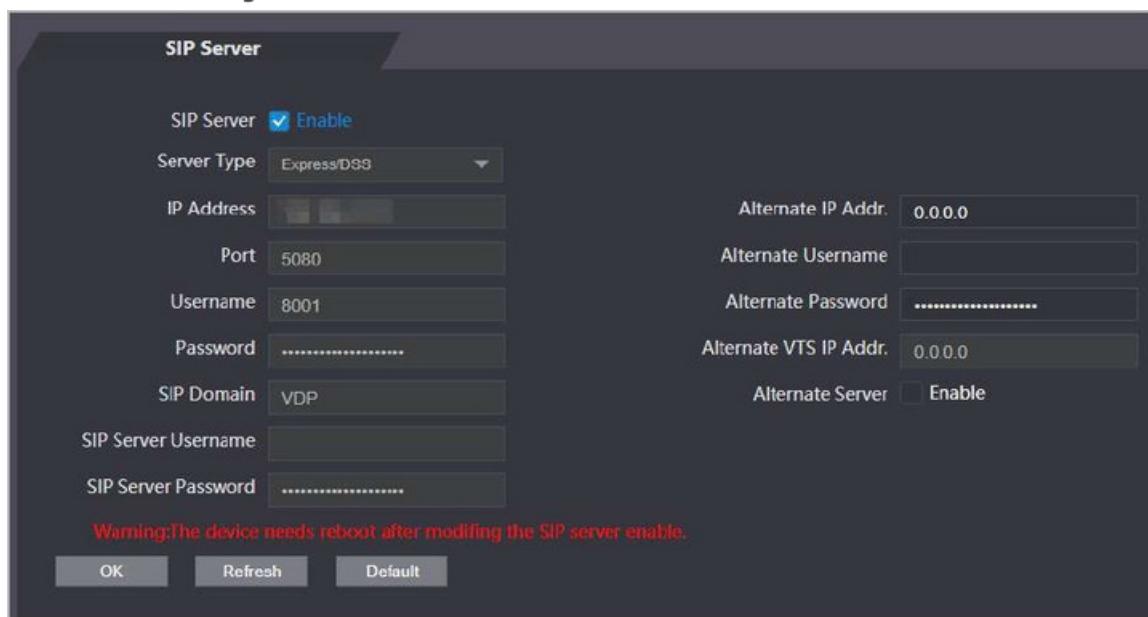
Procedure

Step 1   Select **Intercom** > **SIP Server**.

Step 2   Select a server type.

- Use the Access Controller as the SIP server. Turn on **SIP Server** and keep other parameters as default.

Figure 3-6 Use the Access Controller as the SIP server

- Use another VTO as the SIP server:
  1. Do not enable **SIP server**. Select **VTO** from the **Server Type**.
  2. Configure the parameters, and then click **Save**.

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Figure 3-7 Use VTO as the SIP server
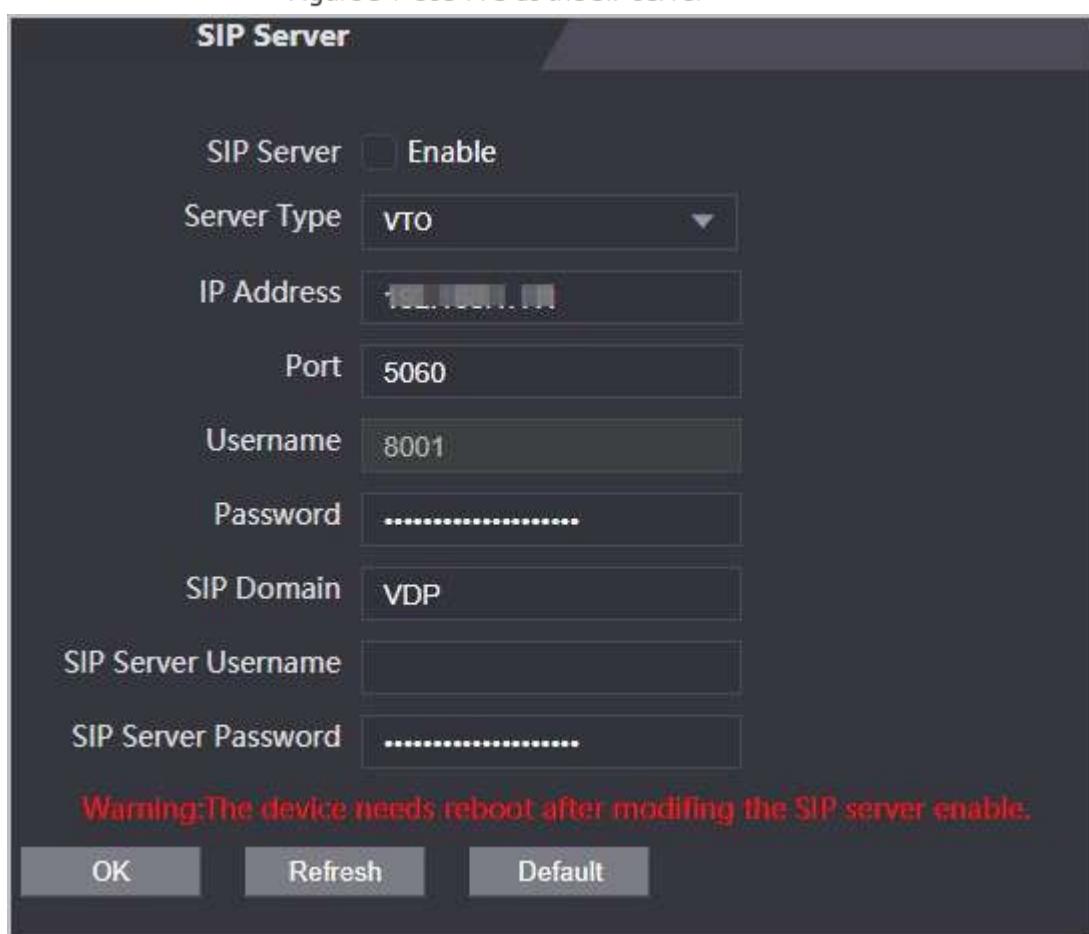
Table 3-2 SIP server configuration

Parameter	Description
IP Address	IP address of the platform.
Port	• 5060 by default when VTO work as SIP server. • 5080 by default when the platform works as SIP server.
Username	Leave it as default.
Password	
SIP Domain	VDP.
SIP Server Username	The login username and password of the SIP server.
SIP Server Password	

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Figure 3-8 Use DSS Express or DSS pro as the SIP server
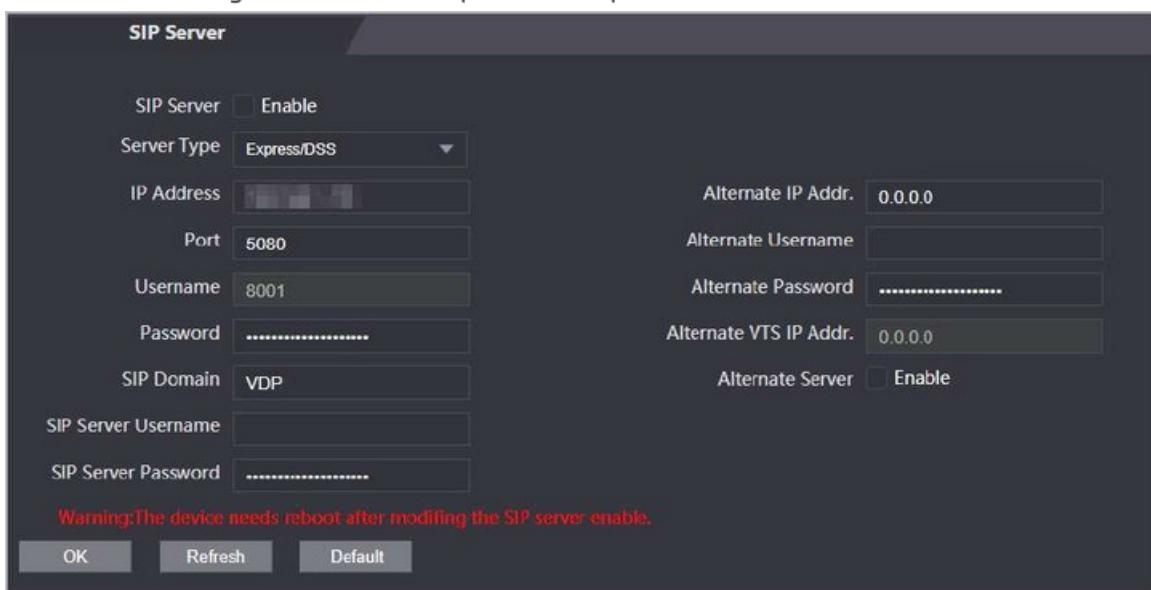
Table 3-3 SIP server configuration

Parameter	Description
IP Address	IP address of the platform.
Port	• 5060 by default when VTO work as SIP server. • 5080 by default when the platform works as SIP server.
Username	Leave it as default.
Password	
SIP Domain	Leave them as default.
SIP Server Username	The login username and password of the platform.
SIP Server Password	
Alternate IP Addr.	The alternate server will be used as the SIP server when DSS Express or DSS pro does not respond. We recommend you configure the alternate IP address. • If you turn on the **Alternate Server** function, you will set the Access Controllers the alternate server. • If you want another VTO to function as the alternate server, you need to enter the IP address, username, password of the VTO. Do not enable **Alternate Server** in this case. • We recommend you set the main VTO as the alternate server.
Alternate Username	Used to log in to the alternate server.
Alternate Password	
Alternate VTS IP Addr.	Enter the IP address of the alternate VTS. When the management platform does not respond, the alternate VTS will be activated to make sure VTO, VTH and VTS can still realize video intercom function.

Step 3   Click **OK**.

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3.5.2 Configuring Basic Parameters

Configure the basic information of VTO, such as device type and device number.

Procedure

Step 1   Select **Talkback** > **Local**.

Step 2   Configure the parameters.

- Use the Access Controller as the SIP server.

Figure 3-9 Basic parameter
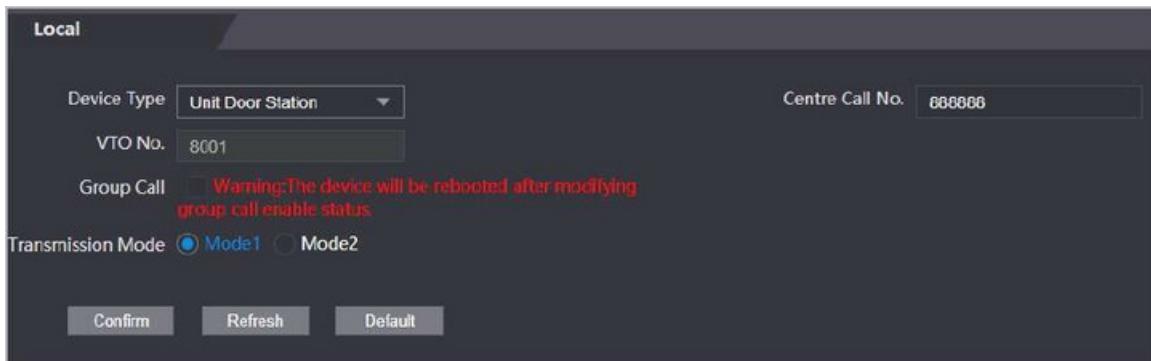
Table 3-4 Basic parameter description

Parameter	Description
Device Type	Select **Unit Door Station**.
VTO No.	The number of the VTO, which cannot be configured.
Group Call	When you turn on the group call function, the VTO calls the main VTH and the extensions at the same time.
Centre Call No.	The default phone number is 888888+VTS No. when the VTO calls the VTS. You can check the number of the VTS from the **Device** screen of VTS.
Transmission Mode	Mode 1 is selected by default.

- Use other VTO as the SIP server.

Figure 3-10 Basic parameter
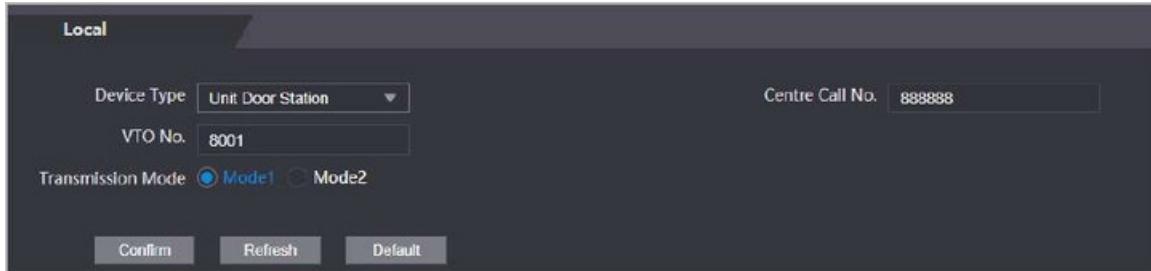
Table 3-5 Basic parameter description

Parameter	Description
Device Type	Select **Unit Door Station**.

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Parameter	Description
VTO No.	The number of the VTO. • The number must have four digits. The first two digits are 80, and the last two digits start from 01. Take 8001 for example. • If multiple VTOs exist in the one unit, the VTO No. cannot be repeated.
Centre Call No.	The default phone number for the management center is 888888. Keep it as default.
Transmission Mode	Mode 1 is selected by default.

Figure 3-11 Basic parameter
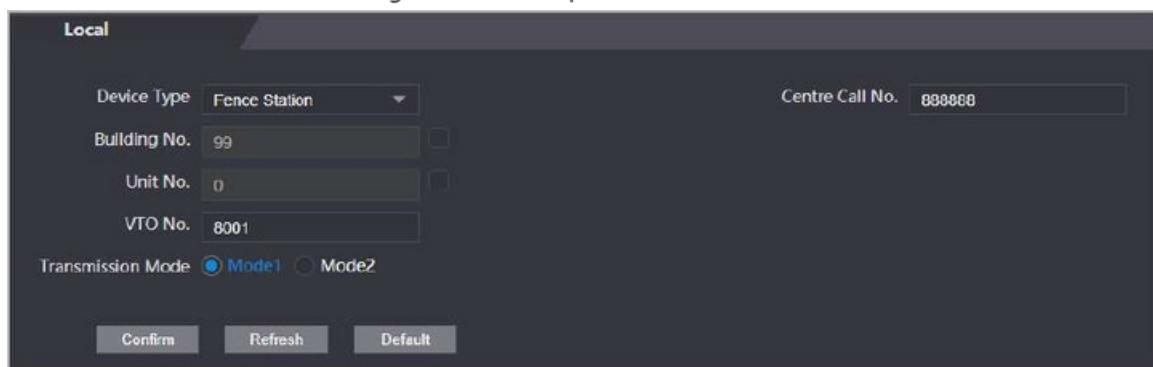
Table 3-6 Basic parameter description

Parameter	Description	
Device Type	Select the device type based on the installation position.	
Building No.	Select the checkbox and then enter the number of the building where the unit door station is installed.	If building and unit are enabled on DSS, enter the building number and unit number on the web page. The building number, unit number and VTO number must conform to the configured parameters on DSS.
Unit No.	Select the checkbox and then enter the number of the unit where the unit door station is installed.	Take room 1001, unit 2, and building 1 as an example. If building number is enabled on the DSS and the unit is not enabled, the room number is "1#1001". If building and unit are both enabled, the room number is "1#2#1001". If building is not enabled, and unit is not enabled either, the room number is "1001". For details, see the user manual of DSS.
VTO No.	The number of the unit door station. If multiple VTOs exist in the one unit, the VTO No. cannot be repeated.	
Centre Call No.	The default phone number is 888888 when the VTO calls the VTS.Keep it as default.	
Transmission Mode	Mode 1 is selected by default.	

Step 3   Click **Confirm**.

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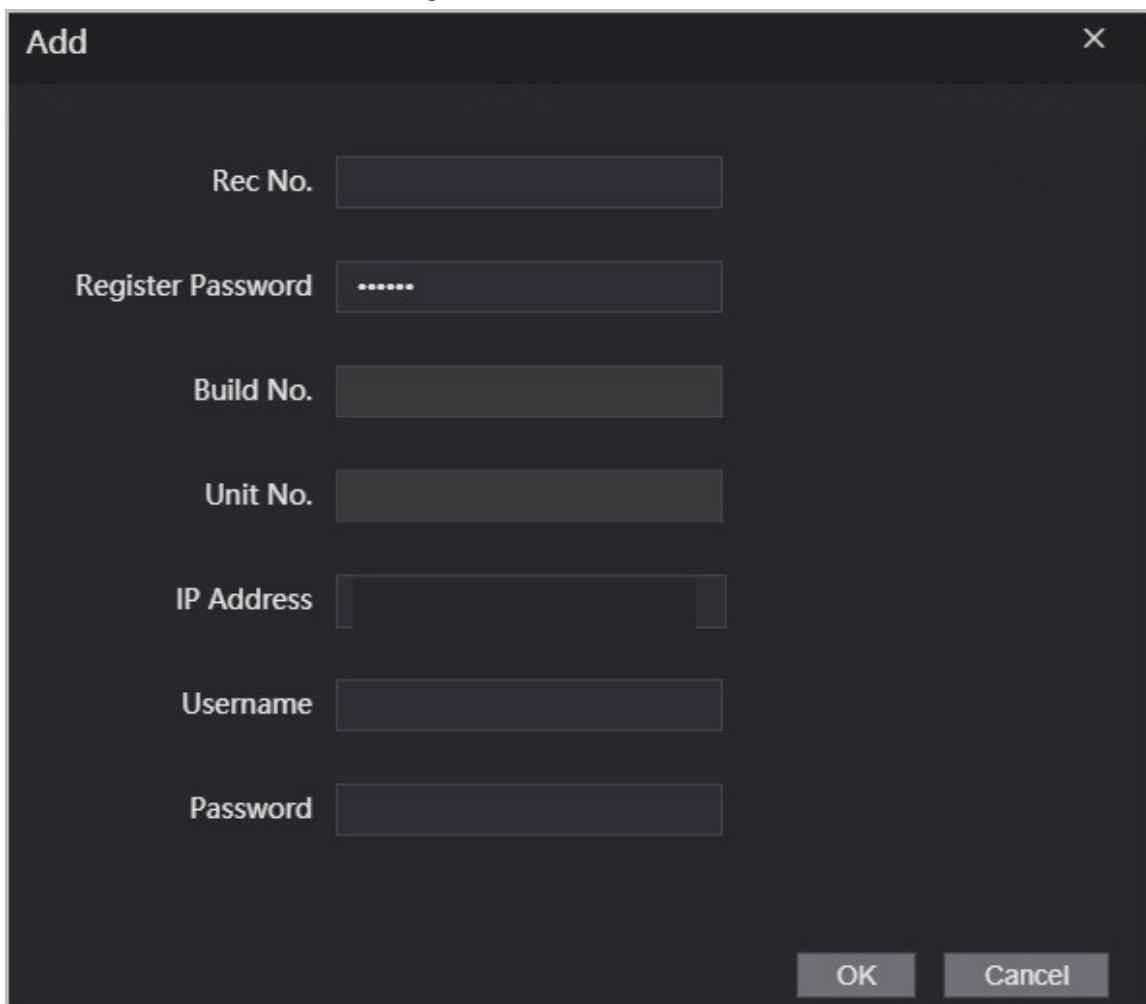
3.5.3 Adding the VTO

When the Access Controller functions as the SIP Server and you have other VTOs, you need to add other VTOs to the SIP server to make sure they can call each other.

Procedure

Step 1   On the webpage of the Access Controller, select **Talkback setting** > **VTO No. Management**.

Step 2   Click **Add**, and then configure the VTO.

Figure 3-12 Add VTO

Table 3-7 Add VTO configuration

Parameter	Description
Rec No.	The number of the added VTO. You can check the number from the **Device** page on the webpage of the VTO.
Registration Password	Keep it default.
Build No.	Cannot be configured.
Unit No.	
IP Address	The IP address of the added VTO.
Username	The username and password used to log in to the webpage of the added

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Parameter	Description
Password	VTO.

Step 3   Click **OK**.

3.5.4 Adding the VTH

When the Access Controller functions as the SIP Server, you can add all VTHs in the same unit to the SIP server to make sure they can call each other.

Background Information

- When there are main VTH and extension, you need to turn on the group call function first and then add main VTH and extension on the **VTH Management** page. For how to turn on the group call function, refer to "3.5.2 Configuring Basic Parameters".
- Extension cannot be added when the main VTHs are not added.
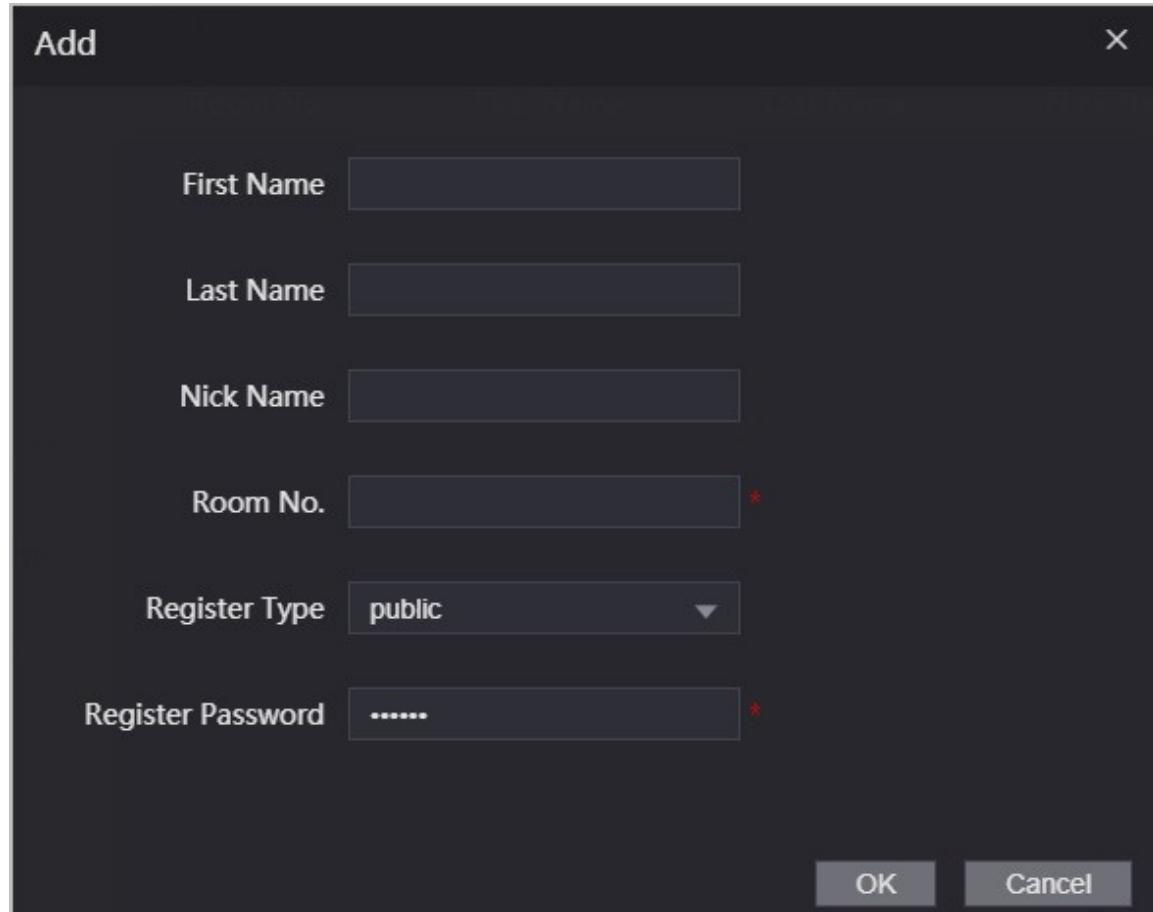
Procedure

Step 1   On the home page, select **Talkback setting** > **Room No. Management**.

Step 2   Add the VTH.
- Add individually
    1. Click **Add**.
    2. Configure parameters, and then click **OK**.

Figure 3-13 Add individually

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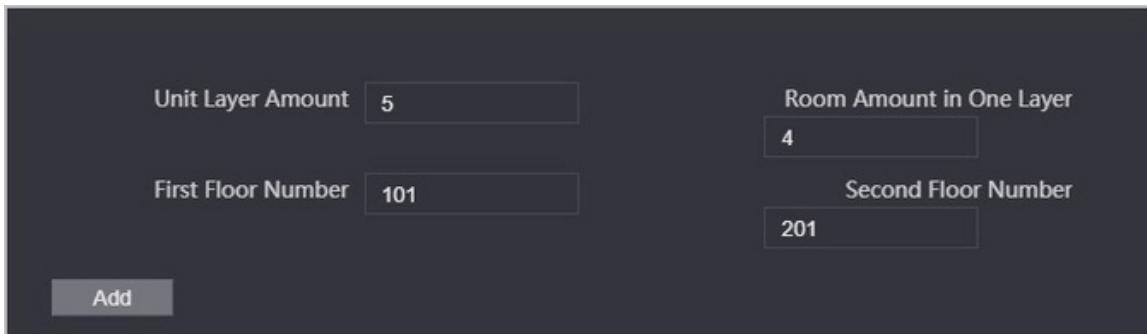
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Table 3-8 Room information

Parameter	Description
Room No.	Enter the room number of the VTH. • The room number consists of 1-5 digits, and must conform to the configured room number on the VTH. • When there are main VTH and extensions, the room number of main VTH ends with -0 and the room number of extension ends with -1, -2 or -3. For example, the main VTH is 101-0, and the room number of the extension is 101-1, 101-2... • If the group call function is not turned on, room number in the format of 9901-xx cannot be set.
First Name	Enter the name of the VTH to help you differentiate VTHs.
Last Name	
Nick Name	
Register Type	Keep them as defaults.
Registered Password	

- Add in batches
    1. Click **Batch Add**
    2. Configure the parameters.

Figure 3-14 Batch add

Table 3-9 Batch add

Parameter	Description
Unit Layer Amount	The number of floors of the building (ranging from 1-99).
Room Amount in One Layer	The number of rooms on each floor, which ranges from 1-99.
First Floor Number	The first room on the first floor.
Second Floor Number	The first room on the second floor, which equals the first room on the first floor plus the number of rooms on each floor.

3.5.5 Adding the VTS

When the Access Controller functions as the SIP Server, you can add VTSs to the SIP server to make

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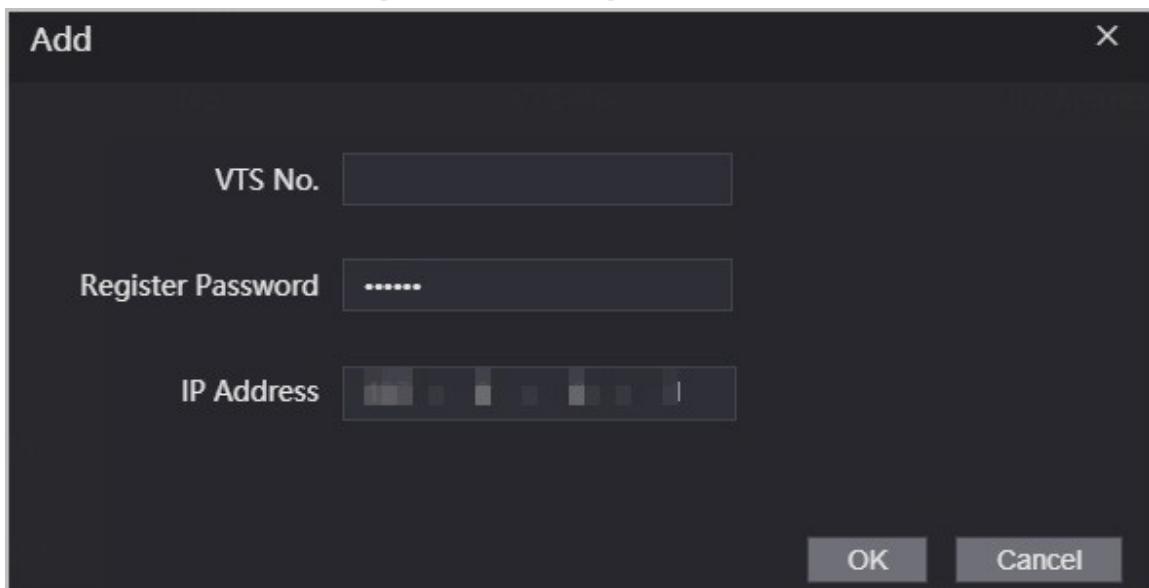
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sure they can call each other.

Procedure

Step 1   On the Homepage, select **Talkback setting** > **VTS Management**.

Step 2   Click **Add** and set parameters.

Figure 3-15 VTS management

Step 3   Click **OK**.

3.5.6 Viewing Device Status

When the Access Controller works as the SIP Server, you can view the status of devices that are connected the SIP server. On the Homepage, select **Talkback setting** > **Status**.

3.5.7 Viewing Call Logs

View all the record of outgoing calls and incoming calls. On the Homepage, select **Talkback setting** > **Call**.

3.6 Configuring Schedules

Configure time sections and holiday plans, and then you can define when a user has the permissions to unlock doors.

3.6.1 Configuring Time Sections

You can configure up to 128 groups (from No.0 through No.127) of time section. In each group, you need to configure door access schedules for a whole week. A user can only unlock the door during
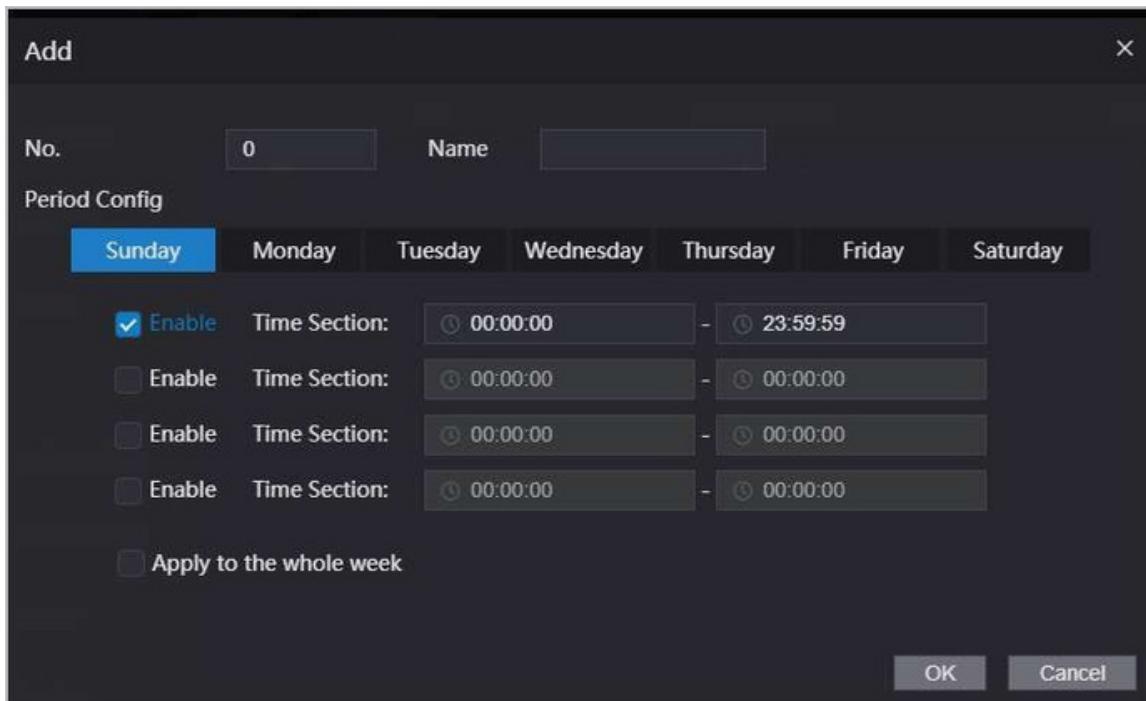
the scheduled time.

Procedure

Step 1   Log in to the webpage.

Step 2   Select **Time Section** > **Time Section**.

Step 3   Click **Add**.

Figure 3-16 Time section parameters

Step 4   Enter No. and name for the time section.
- **No.**: Enter a section number It ranges from 0 through 127.
- **Name**: Enter a name for each time section. You can enter a maximum of 32 characters (contain number, special characters and English characters).

Step 5   Configure time sections for each day.

Step 6   You can configure up to four time sections for a single day.

Step 7   (Optional) Click **Apply to the whole week** to copy the configuration to the rest of days.

Step 8   Click **OK**.

3.6.2 Configuring Holiday Groups

Set time sections for different holiday groups. You can configure up to 128 holiday groups (from No.0 through No.127). and up to 16 time sections for a single holiday group. Users can unlock doors in the defined time sections.

Procedure

Step 1   Log in to the web page.

Step 2   Select **Time Section** > **Holiday Group** > **Config**.

Step 3   Click **Add**.

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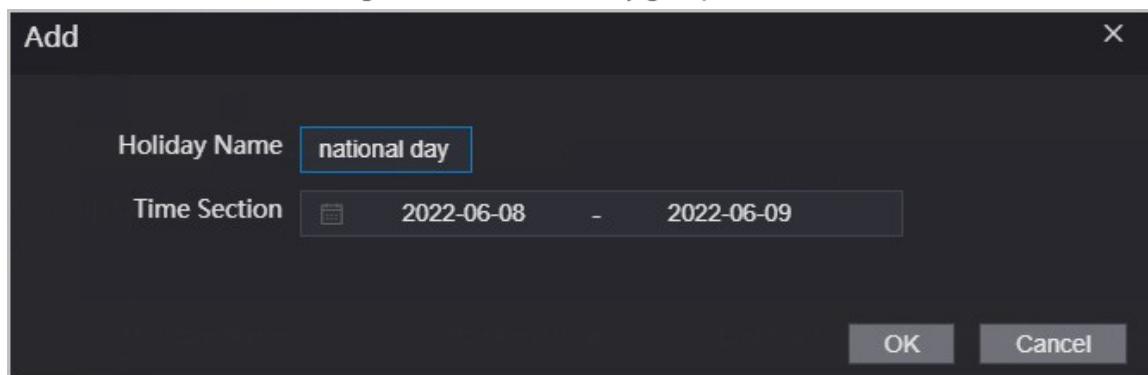
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Figure 3-17 Add a holiday group

Step 4 Set the name and the time for the holiday group.

- **Holiday Name**: Enter the name of the holiday group. Enter a name for each time section. You can enter a maximum of 32 characters (contain numbers, special characters and English characters).
- **Time Section**: Select the start time and end time of the holiday.

Step 5 Click **OK**.

You can add multiple holidays in a holiday group.

Step 6 Click **OK**.
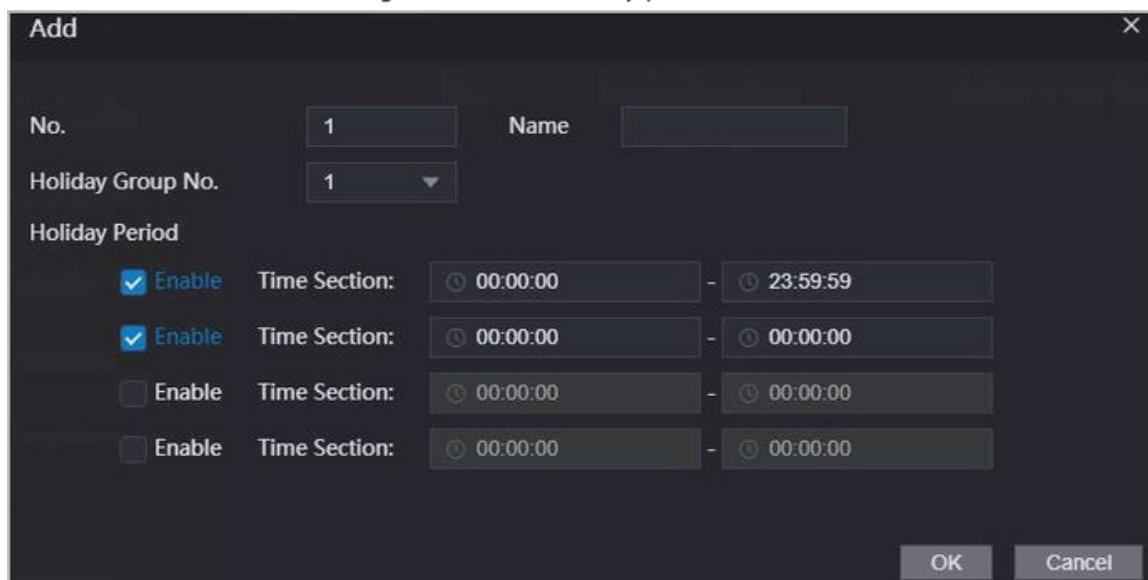
3.6.3 Configuring Holiday Plans

Assign the configured holiday groups to the holiday plan. Users can only unlock the door in the defined time in the holiday plan.

Procedure

Step 1 Log in to the webpage.

Step 2 Select **Time Section** > **Holiday Plan Config**.

Step 3 Click **Add**.

Figure 3-18 Add holiday plan

Step 4 Enter a number and name for the holiday plan.

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- **No.:** Enter a section number. It ranges from 0 through 127.
- **Name**: Enter a name for each time section. You can enter a maximum of 32 characters (contain numbers, special characters and English characters).

Step 5   In the **Holiday Group No.** list, select the number of the defined holiday group.

Select **255** if you do not want to select a holiday group.

Step 6   In the **Holiday Period** area, configure time sections in the holiday group. You can configure up to four time sections.

Step 7   Click **OK.**

3.7 Data Capacity

You can see how many users, cards and face images that the Access Controller can store. Log in to the webpage and select **Data Capacity**.

3.8 Configuring Video and Image

Configure video and image parameters, such as stream and brightness.

Background Information

We recommend you use the default parameters in this section.

3.8.1 Configuring Video

On the home page, select **Video Setting**, and then configure the video stream, status, image and exposure.

Background Information

- Video Standard: Select **NTSC**.
- Channel Id: Channel 1 is for configurations of visible light image. Channel 2 is for configurations of infrared light image.
- Default: Restore to defaults settings.
- Capture: Take a snapshot of the current image.

PAL video standard is 25 fps and the NTSC video standard is 30 fps.

3.8.1.1 Configuring Channel 1

Procedure

Step 1   Select **Video Setting** > **Video Setting**.

Step 2   Select **1** from the **Channel No.** list.

Step 3   Configure the date rate.

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Figure 3-19 Date rate
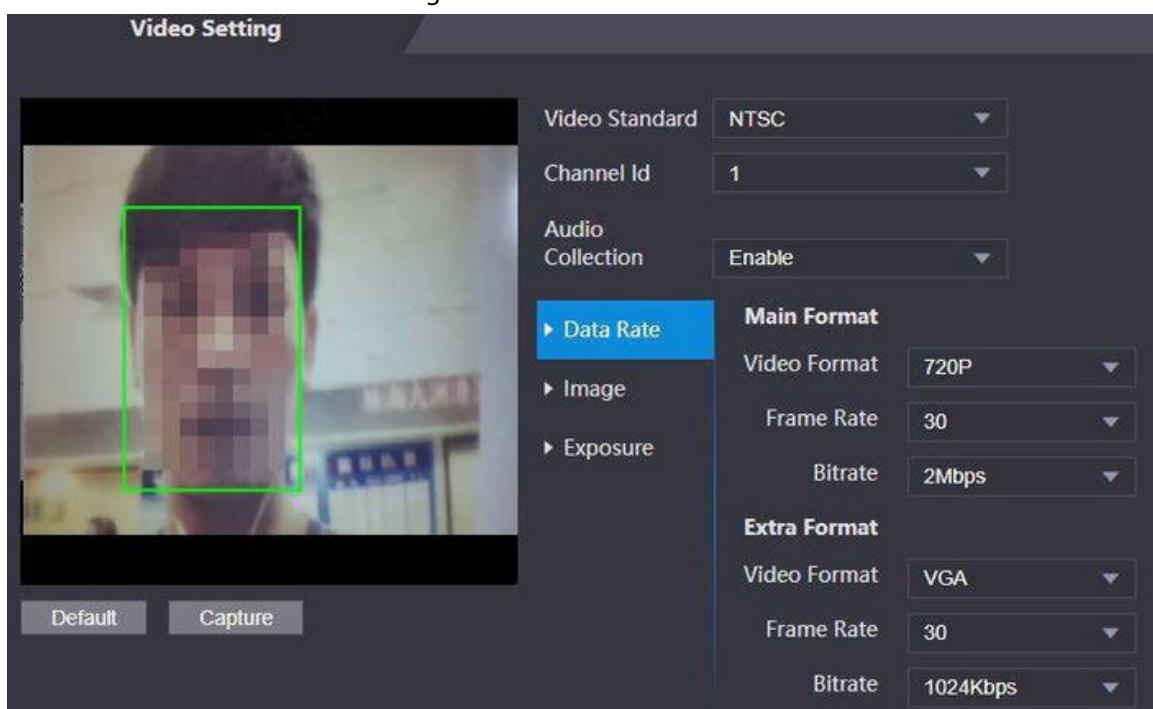
Table 3-11 Date rate description

Parameter		Description
Main Format	Video Format	When the Access Controller functions as the a VTO and connects the VTH, the acquired stream limit of VTH is 720p.When resolution is changed to 1080p, the call and monitor function might be affected.
	Frame Rate	The number of frames (or images) per second. The frame rate range is 1–25 fps.
	Bitrate	It indicates the amount of data transmitted over an internet connection in a given amount of time. Select a proper bandwidth based on your network speed.
Sub Stream	Video Format	The sub-stream supports D1, VGA and QVGA.
	Frame Rate	The number of frames (or images) per second. The frame rate range is 1–25 fps.
	Bitrate	It indicates the amount of data transmitted over an internet connection in a given amount of time.

<u>Step 4</u>   Configure the image.

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Figure 3-20 Image
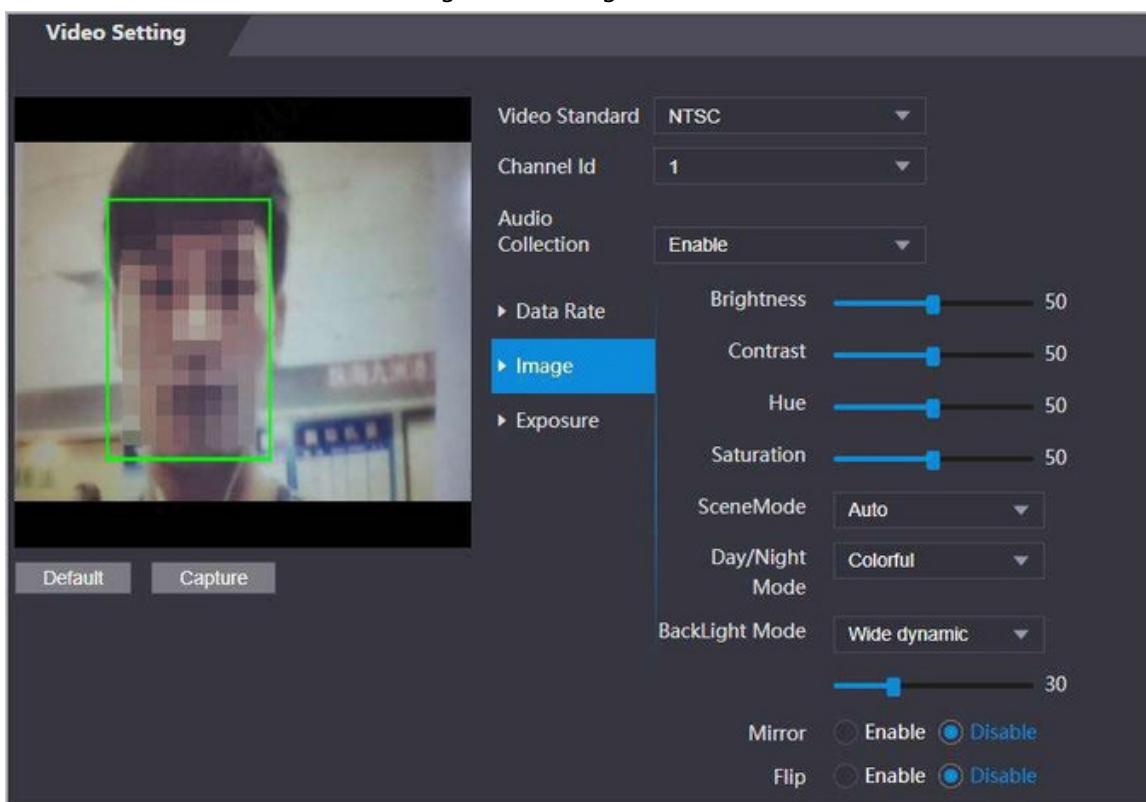
Table 3-12 Image description

Parameter	Description
Contrast	Contrast is the difference in the luminance or color that makes an object distinguishable. The larger the contrast value is, the greater the color contrast will be.
Hue	Refers to the strength or saturation of a color. It describes the color intensity, or how pure it is.
Saturation	Color saturation indicates the intensity of color in an image. As the saturation increases, the appear stronger, for example being more red or more blue. The saturation value does not change image brightness.
Scene Mode	The image hue is different in different scene mode. • **Close**: Scene mode function is turned off. • **Auto**: The system automatically adjusts the scene mode based on the photographic sensitivity. • **Sunny**: In this mode, image hue will be reduced. • **Night**: In this mode, image hue will be increased.
Day/Night	Day/Night mode affects light compensation in different situations. • **Auto**: The system automatically adjusts the day/night mode based on the photographic sensitivity. • **Colorful**: In this mode, images are colorful. • **Black and white**: In this mode, images are in black and white.

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Parameter	Description
Backlight Mode	• **Close**: Backlight compensation is turned off. • **Backlight**: Backlight compensation automatically brings more light to darker areas of an image when bright light shining from behind obscures it. • **Wide dynamic**: The system dims bright areas and compensates for dark areas to create a balance to improve the overall image quality. • **Inhibition**: Highlight compensation (HLC) is a technology used in CCTV/IP security cameras to deal with images that are exposed to lights like headlights or spotlights. The image sensor of the camera detects strong lights in the video and reduces exposure in these spots to enhance the overall quality of the image.
Mirror	When the function is turned on, images will be displayed with the left and right side reversed.
Flip	When this function is turned on, images can be flipped over.

Step 5   Configure the exposure parameters.

Figure 3-21 Exposure

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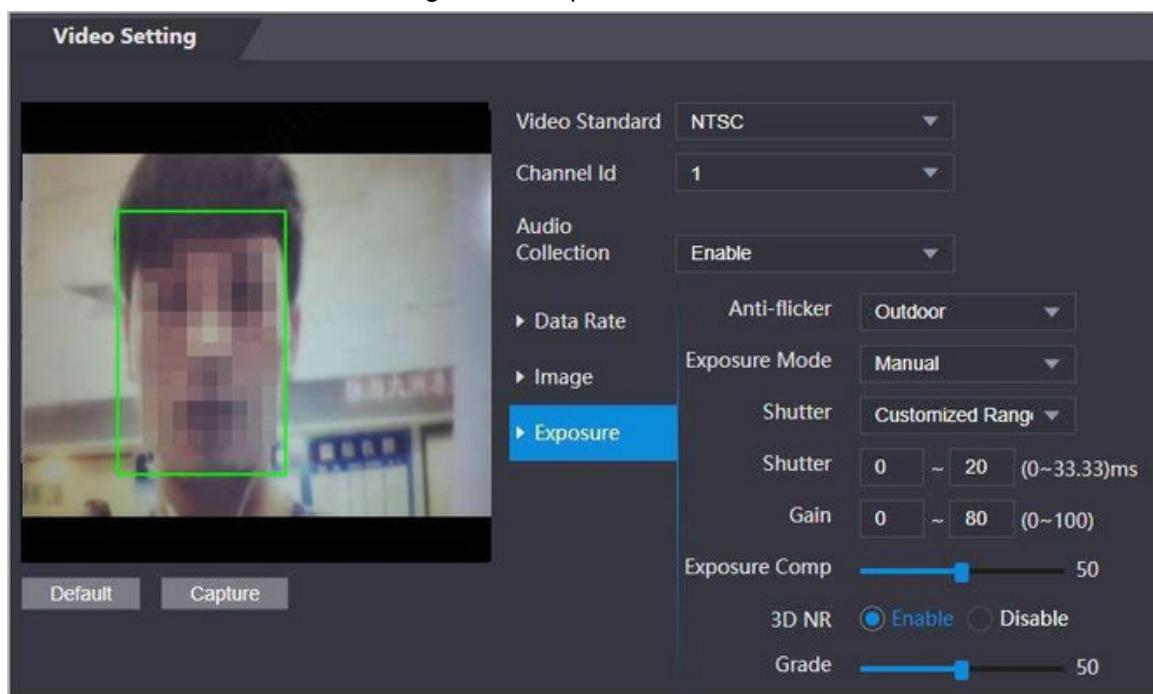
Table 3-13 Exposure parameter description

Parameter	Description
Anti-flicker	Set anti-flicker to reduce flicker and decrease or reduce uneven colors or exposure. ● **50Hz**: When the mains power supply is 50 Hz, the exposure is automatically adjusted to prevent the appearance of horizontal lines. ● **60Hz**: When the mains power supply is 60 Hz, the exposure is automatically adjusted to reduce the appearance of horizontal lines. ● **Outdoor**: When **Outdoor** is selected, the exposure mode can be switched.
Exposure Mode	You can set the exposure to adjust image brightness. ● **Auto**: The Access Controller automatically adjusts the brightness of images. ● **Shutter Priority**: The Access Terminal will adjust image brightness according to shutter exposure range. If the image brightness is not enough and the shutter value has reached its upper or lower limit, the Access Controller will adjust the gain value automatically for ideal brightness level. ● **Manual**: You can configure gain and shutter value manually to adjust image brightness. ◇ When you select **Outdoor** from the **Anti-flicker** list, you can select **Shutter Priority** as the exposure mode. ◇ Exposure mode might differ depending on different models of Access Controller.
Shutter	Shutter is a component that allows light to pass for a determined period. The higher the shutter speed, the shorter the exposure time, and the darker the image.
Gain	When the gain value range is set, video quality will be improved.
Exposure Compensation	You can make a photo brighter or darker by adjusting exposure compensation value.
3D NR	When 3D Noise Reduction (RD) is turned on, video noise can be reduced to ensure high definition videos.
Grade	You can set its grade when this function is turned on.

3.8.1.2 Configuring Channel 2

Procedure

Step 1   Select **Video Setting** > **Video Setting**.

Step 2   Select 2 from the **Channel No.**.

Step 3   Configure the video status.

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We recommend you turn on the WDR function when the face is in back-lighting.

Figure 3-22 Image
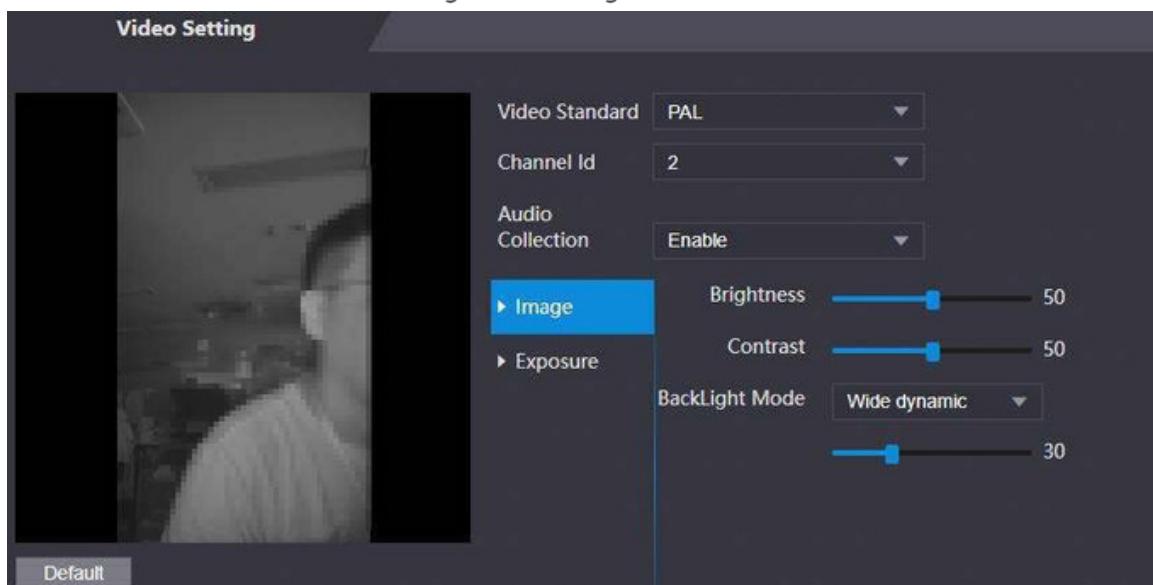
Table 3-14 Image description

Parameter	Description
Brightness	Brightness is the relative lightness or darkness of a particular color. The larger the value is, the brighter the image will be.
Contrast	Contrast is the difference in the luminance or color that makes an object distinguishable. The larger the contrast value is, the greater the color contrast will be.
Backlight Mode	• **Close**: Back-light compensation is turned off. • **Backlight**: Black-light compensation automatically brings more light to darker areas of an image when bright light shining from behind obscures it. • **Wide dynamic**: The system dims bright areas and compensates for dark areas to ensure to create a balance to improve the overall image quality. • **Inhibition**: Highlight compensation (HLC) is a technology used in CCTV/IP security cameras to deal with images that are exposed to lights like headlights or spotlights. The image sensor of the camera detects strong lights in the video and reduce exposure in these spots to enhance the overall quality of the image.

Step 4   Configure the exposure parameters.

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Figure 3-23 Exposure parameter
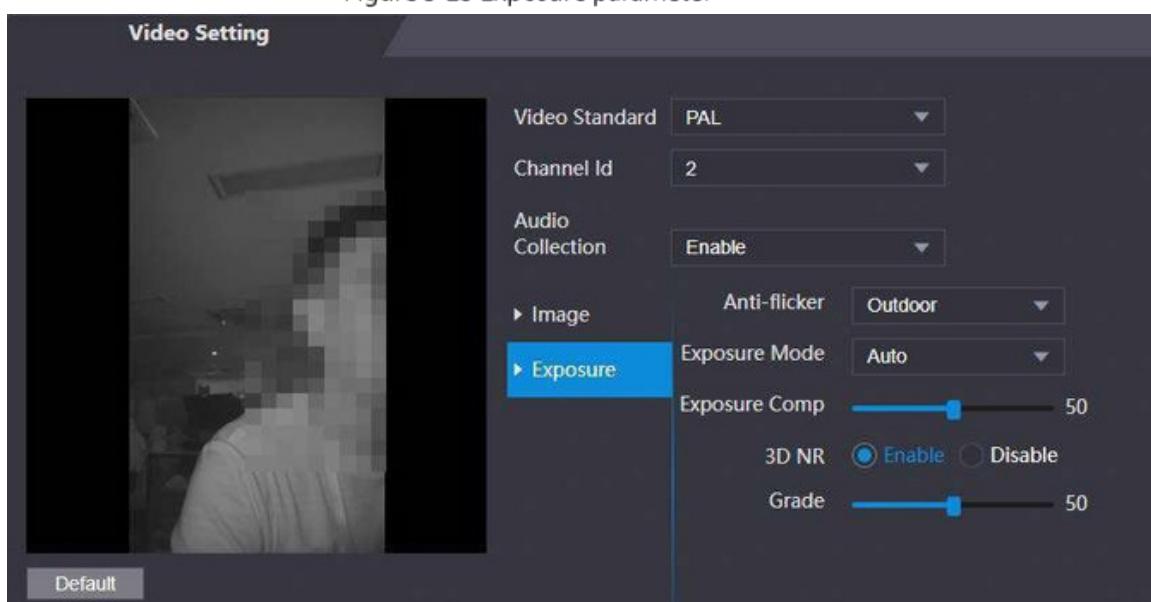
Table 3-15 Exposure parameter description

Parameter	Description
Anti-flicker	Set anti-flicker to reduce flicker and decrease or eliminate uneven colors or exposure. • **50Hz**: When the mains power supply is 50 Hz, the exposure is automatically adjusted to prevent the appearance of horizontal lines. • **60 Hz**: When the mains power supply is 60 Hz, the exposure is automatically adjusted to reduce the appearance of horizontal lines. • **Outdoor**: When **Outdoor** is selected, the exposure mode can be switched.
Exposure Mode	You can set the exposure to adjust image brightness. • **Auto**: The Access Controller automatically adjusts the brightness of images. • **Shutter Priority**: The Access Terminal will adjust image brightness according to shutter exposure range. If the image brightness is not enough and the shutter value has reached its upper or lower limit, the Access Controller will adjust the gain value automatically for ideal brightness level. • **Manual**: You can configure gain and shutter value manually to adjust image brightness. ◇ When you select **Outdoor** from the **Anti-flicker** list, you can select **Shutter Priority** as the exposure mode. ◇ Exposure model might differ depending on different models of Access Controller.

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Parameter	Description
Shutter	Shutter is a device that allows light to pass for a determined period. The higher the shutter speed, the shorter the exposure time, and the darker the image.
Gain	When the gain value range is set, video quality will be improved.
Exposure Compensation	You can make a photo brighter or darker by adjusting exposure compensation value.
3D NR	When 3D Noise Reduction (RD) is turned on, video noise can be reduced to ensure high definition videos.
Grade	You can set its grade when this function is turned on.

3.8.2 Setting Volume

You can adjust the volume of the speaker.

Procedure

Step 1   Log in to the webpage.

Step 2   Select **Video Setting** > **Volume Setting**.

Step 3   Drag the slider the adjust the volume.

Step 4   Click **OK**.

3.9 Configuring Face Detection

You can configure human face related parameters on this interface to increase the accuracy of the face recognition.

Procedure

Step 1   Log in to the webpage.

Step 2   Select **Face Detect**.

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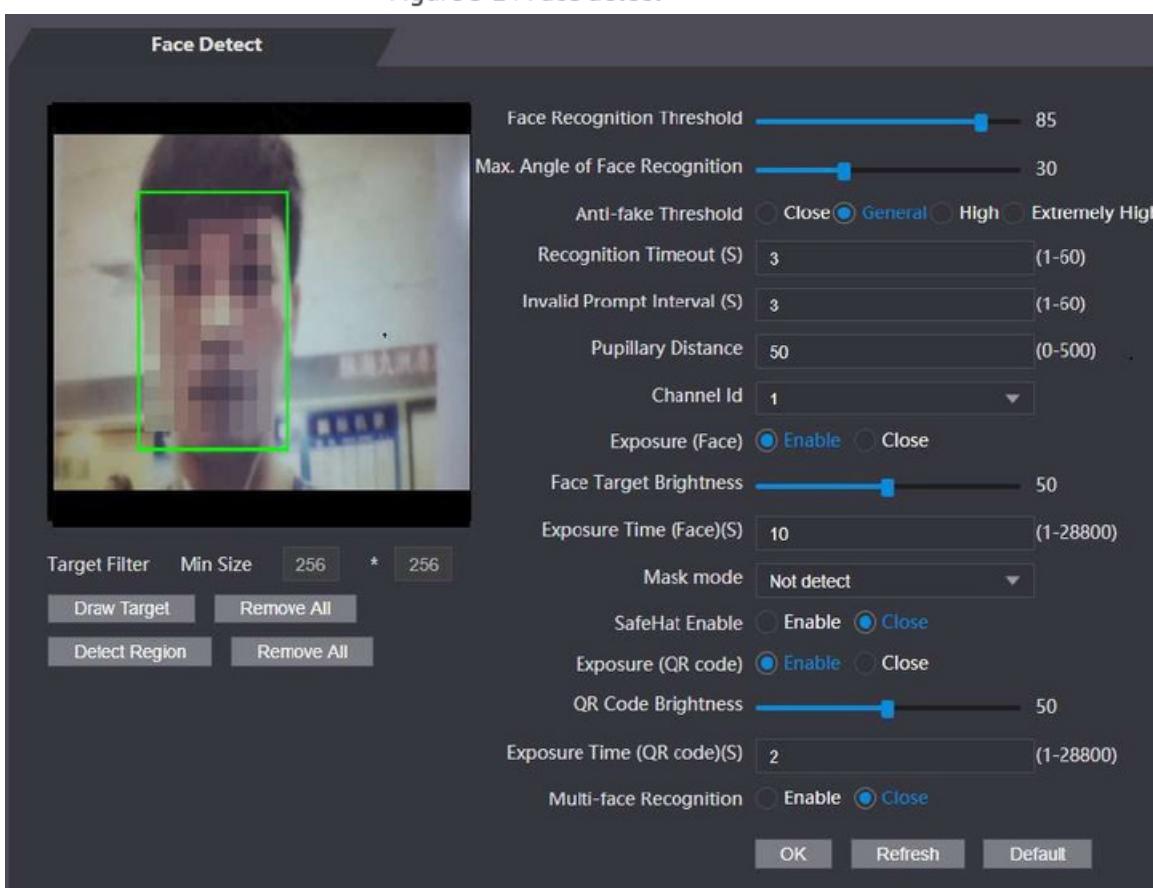
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Figure 3-24 Face detect

Step 3   Configure the parameters.

Table 3-16 Description of face detection parameters

Parameter	Description
Face Threshold	Adjust the face recognition accuracy. Higher threshold means higher accuracy.
Max. Angle of Face	Set the maximum face pose angle for face detection. Larger value means larger face angle range. If the face pose angle is out of the defined range, the face detection box will not appear.
Anti-fake Threshold	Avoid false face recognition by using a photo, video, mask or a different substitute for an authorized person's face. • Close: Turns off this function. • General: Normal level of anti-spoofing detection means higher door access rate for people with face masks. • High: Higher level of anti-spoofing detection means higher accuracy and security. • Extremely High: Extremely high level of anti-spoofing detection means extremely high accuracy and security.
Recognition Timeout (S)	If a person with access permission has their face successfully recognized, the Access Controller will prompt face recognition success. You can enter the prompt interval time.

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Parameter	Description
Invalid Face Prompt Interval (S)	If a person without access permission attempts to unlock the door for several times in the defined interval, the Access Controller will prompt face recognition failure. You can enter the prompt interval time.
Pupillary Distance	Face images require desired pixels between the eyes (called pupillary distance) for successful recognition. The default pixel is 45. The pixel changes according to the face size and the distance between faces and the lens. If an adult is 1.5 meters away from the lens, the pupillary distance can be 50 px-70 px.
Channel Id	1 is for the white light camera and 2 is for the IR light camera.
Exposure (Face)	After face exposure is enabled, human faces will be clearer when the Access Controller is installed outdoors.
Face Target Brightness	The default value is 50. Adjust the brightness as needed.
Exposure Time	After a face is detected, the Access Controller will give out light to illuminate the face, and the Access Controller will not give out light again until the interval you set has passed.
Mask Mode	**No detect**: Mask is not detected during face recognition. **Mask reminder**: Mask is detected during face recognition. If the person does not wear a mask, the system will give them a reminder to wear masks, and access is allowed. **Mask intercept**: Mask is detected during face recognition. If a person is not wearing a mask, the system will give them a reminder to wear masks, and access is denied.
Exposure (QR code)	When the Access Controller is installed outdoors, the QR code will be clearer based on the defined QR code brightness when you scan it.
QR code Brightness	
Exposure Time (QR code) (S)	After a QR code is scanned, the Access Controller will give out light to illuminate the QR code, and the Access Controller will not give out light again until the defined exposure time has passed.
Multi-face Recognition	Supports detecting 4 face images at the same time, and the unlock combinations mode become invalid. The door is unlocked after any one of them gain access.

Step 4   Draw the face detection area.

1. Click **Detect Region**,
2. Right-click to draw the detection area, and then release the left button of the mouse to complete drawing. The face in the defined area will be detected.

Step 5   Draw the target size.

1) Click **Draw target**
2) Right-click to draw the face recognition box to define the minimum size of detected face.

   Only when the size of the face is larger than the defined size, the face can be detected

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by the Access Controller.

Step 6   Click **OK**.

3.10 Configuring Network

3.10.1 Configuring TCP/IP

You need to configure IP address of Access Controller to make sure that it can communicate with other devices.

Procedure

Step 1   Select **Network Setting** > **TCP/IP**.

Step 2   Configure parameters.

Figure 3-25 TCP/IP

Table 3-17 Description of TCP/IP

Parameter	Description
IP Version	IPv4
MAC Address	MAC address of the Access Controller.

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Parameter	Description
Mode	• **Static**: Manually enter IP address, subnet mask, and gateway. • **DHCP**: It stands for Dynamic Host Configuration Protocol. When DHCP is turned on, the Access Controller will automatically be assigned with IP address, subnet mask, and gateway.
IP Address	If you select static mode, configure the IP address, subnet mask and gateway.
Subnet Mask	
Default Gateway	IP address and gateway must be on the same network segment.
Preferred DNS	Set IP address of the preferred DNS server.
Alternate DNS	Set IP address of the alternate DNS server.

Step 3   Click **OK**.

3.10.2 Configuring Port
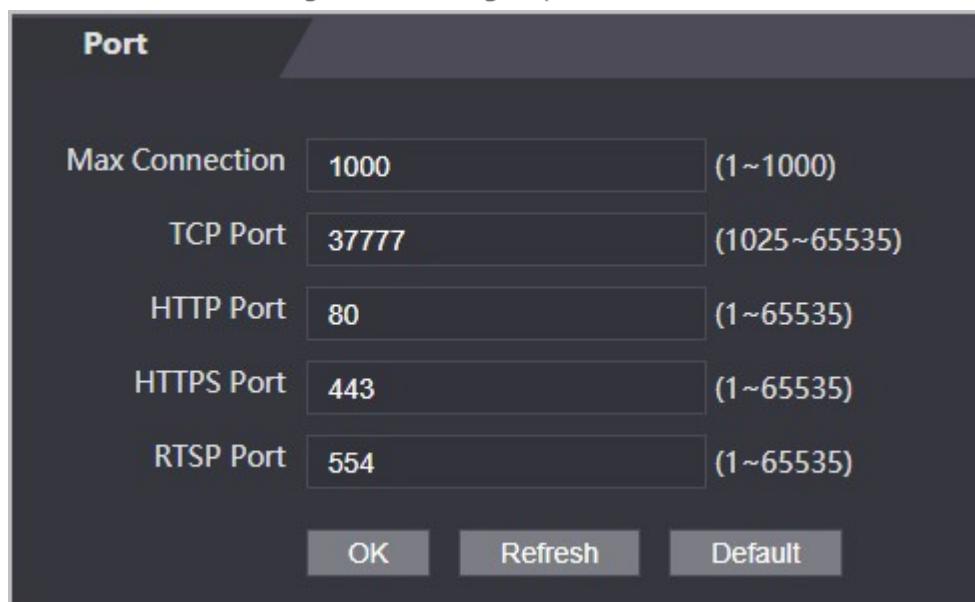
You can limit access to the Access Controller at the same through web, desktop client and phone.

Procedure

Step 1   Select **Network Setting** > **Port**.

Step 2   Configure port numbers.

Figure 3-26 Configure ports

Except **Max Connection** and **RTSP Port**, you need to restart the Access Controller to make the configurations effective after you change other parameters.

Table 3-18 Description of ports

Parameter	Description
Max Connection	You can set the maximum number of clients (such as web, desktop client and phone) that can access the Access Controller at the same time.
TCP Port	Default value is 37777.
HTTP Port	Default value is 80. If you want to change the port number, add the new port number after the IP address when you log in to the webpage.
HTTPS Port	Default value is 443.
RTSP Port	Default value is 554.

<u>Step 3</u>   Click **OK**.

3.10.3 Configuring Automatic Registration

The Access Controller reports its address to the designated server so that you can get access to the Access Controller through the management platform.

Procedure

<u>Step 1</u>   On the home page, select **Network Setting** > **Register**.

<u>Step 2</u>   Enable the automatic registration function and configure the parameters.

Figure 3-27 Register
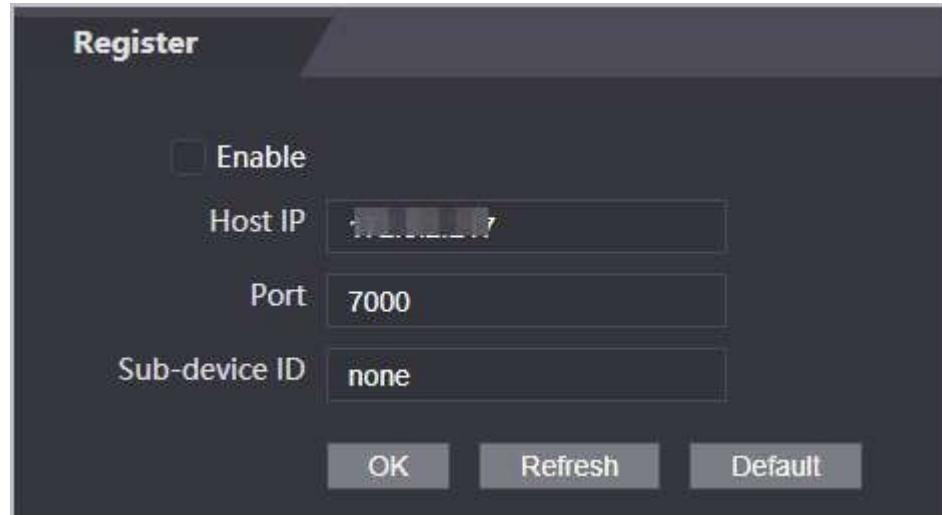
Table 3-19 Automatic registration description

Parameter	Description
Host IP	The IP address or the domain name of the server.
Port	The port of the server used for automatic registration.

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Parameter	Description
Sub-Device ID	Enter the sub-device ID (user defined). When you add the Access Controller to the management platform, the sub-device ID on the management platform must conform to the defined sub-device ID on the Access Controller.

Step 3   Click **Apply**.

3.10.4 Configuring Cloud Service
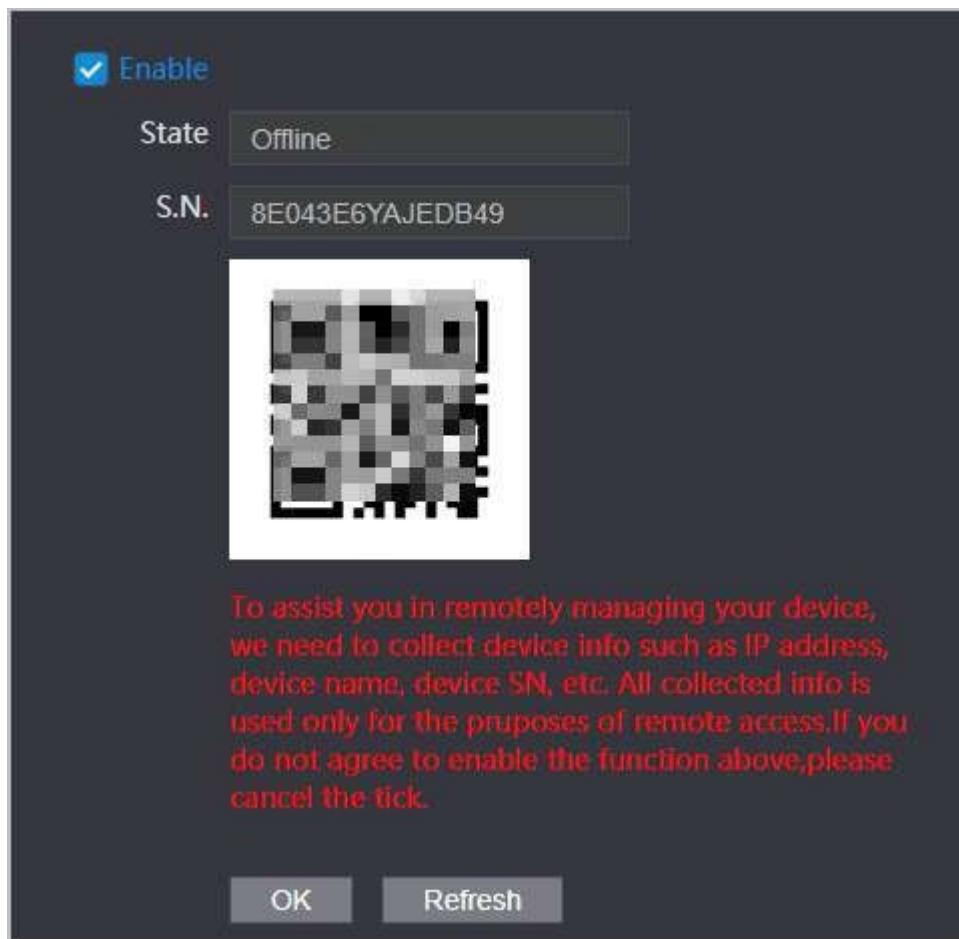
The cloud service provides a NAT penetration service. Users can manage multiple devices through DMSS. You do not have to apply for dynamic domain name, configuring port mapping or deploying server.

Procedure

Step 1   On the home page, select **Network Setting** > **Cloud Service**.

Step 2   Turn on the cloud service function.

Figure 3-28 Cloud service

Step 3   Click **OK**.

Related Operations

Download DMSS and sign up, you can scan the QR code through DMSS to add the Access Controller to it.

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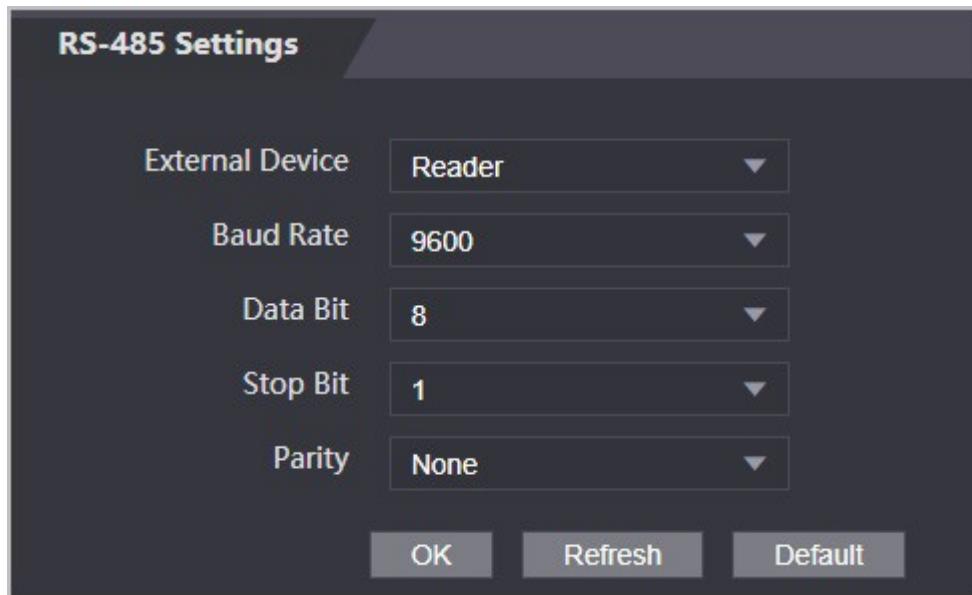
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3.10.5 Configuring Serial Port

Procedure

Step 1 On the home page, select **Network Setting** > **Wiegand serial port setting**.

Step 2 Select a port type.

Figure 3-29 Serial port

- Select **Reader** when the Access Controller connects to a card reader.
- Select **Controller** when the Access Controller functions as a card reader, and the Access Controller will send data to the Access Controller to control access.

Output Data type:

  ◇ Card: Outputs data based on card number when users swipe card to unlock door; outputs data based on user's first card number when they use other unlock methods.

  ◇ No.: Outputs data based on the user ID.

- Select **Reader (OSDP)** when the Access Controller is connected to a card reader based on OSDP protocol.
- Security Module: When a security module is connected, the exit button, lock will be not effective.

3.10.6 Configuring Wiegand

Background Information

The Access Controller allows for both Wiegand input and Output mode.

Procedure

Step 1 On the **Main Menu**, select **Connection** > **Wiegand**.

Step 2 Select a Wiegand.

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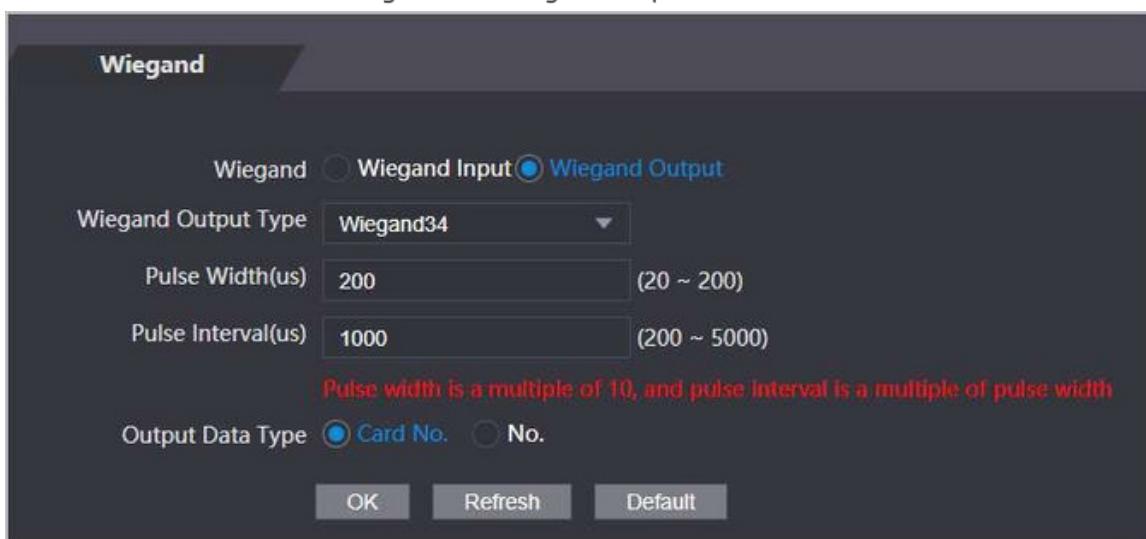
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Figure 3-30 Wiegand output

- Select **Wiegand Input** when you connect an external card reader to the Access Controller.
- Select **Wiegand Output** when the Access Controller functions as a card reader, and you need to connect it to a controller or another access terminal.

Table 3-20 Description of Wiegand output

Parameter	Description
Wiegand Output Type	Select a Wiegand format to read card numbers or ID numbers. • **Wiegand26**: Reads three bytes or six digits. • **Wiegand34**: Reads four bytes or eight digits. • **Wiegand66**: Reads eight bytes or sixteen digits.
Pulse Width	Enter the pulse width and pulse interval of Wiegand output.
Pulse Interval	
Output Data Type	Select the type of output data. • **No.**: Outputs data based on user ID. • **Card No.**: Outputs data based on user's first card number.

3.11 Safety Management

3.11.1 Configuring IP Authority

Procedure

Step 1   Log in to the webpage.

Step 2   Click **Safety Mgmt. > IP Authority**.

Step 3   Select a cybersecurity mode from the **Type** list.

- **Network Access**: Set allowlist and blocklist to control access to the access controller.
- **Prohibit PING**: Enable **PING prohibited** function, and the access controller will not respond to the Ping request.
- **Anti Half Connection**: Enable **Anti Half Connection** function, and the access controller can still function properly under half connection attack.

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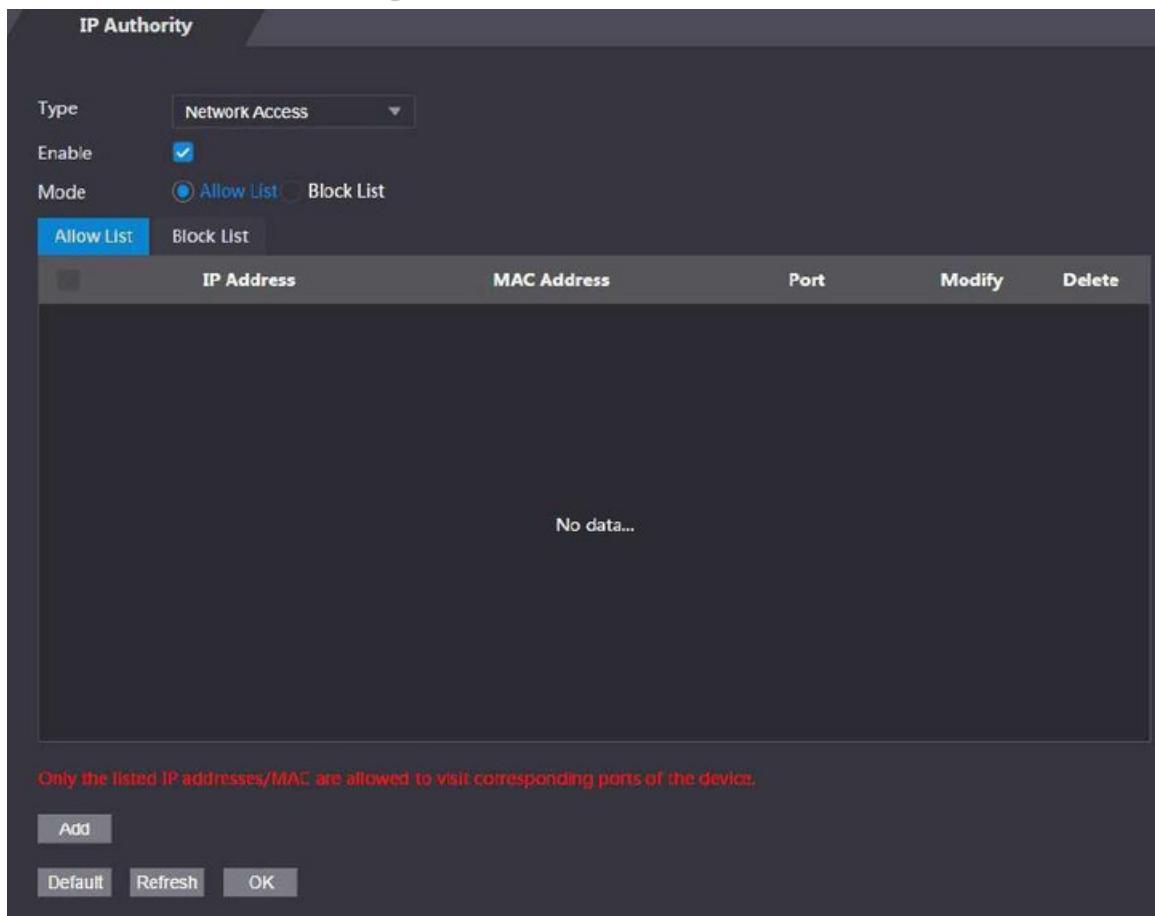
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3.11.1.1 Network Access

Procedure

Step 1   Select **Network Access** from the **Type** list.

Step 2   Select the **Enable** check box.

Figure 3-31 Network access

Step 3   Select **Allow List**   or **Block List**.

Step 4   Click **Add**.
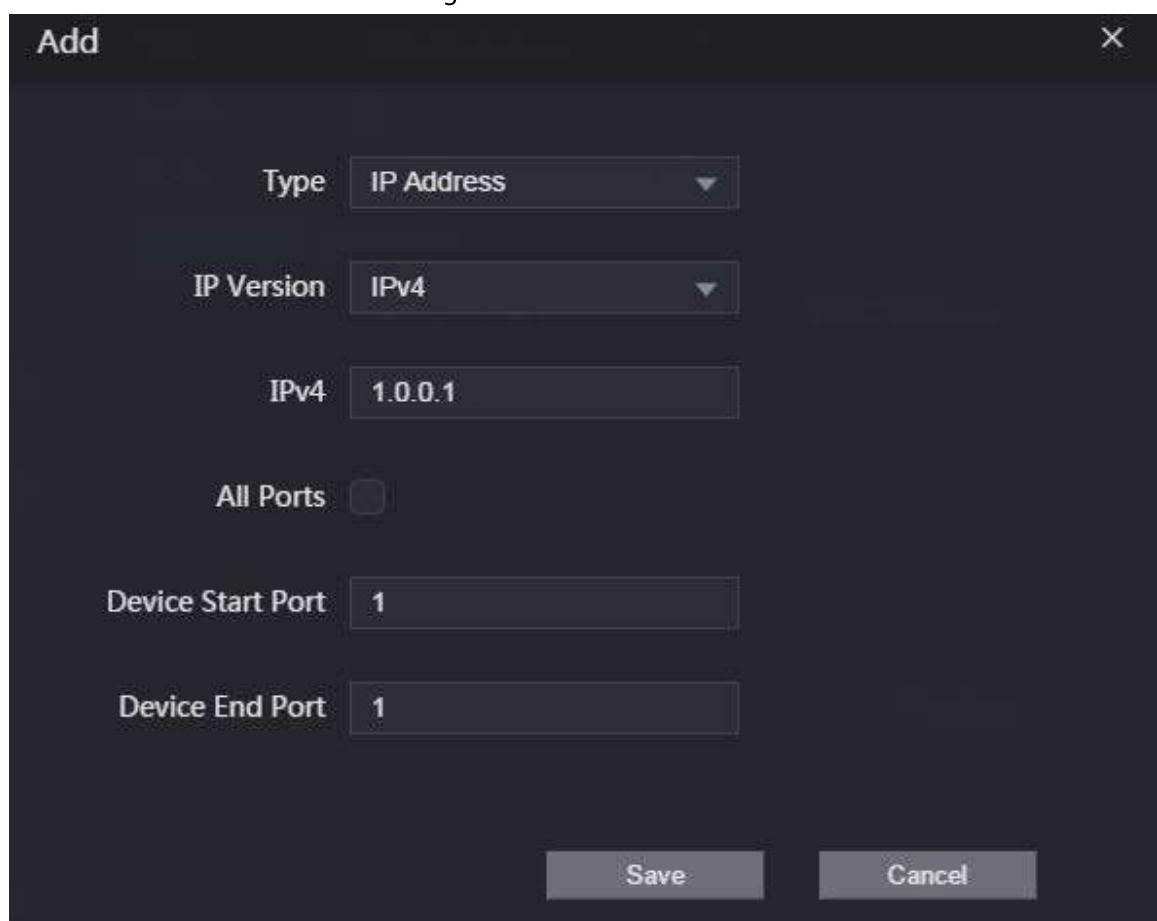
Figure 3-32 Add IP

Step 5   Configure parameters.

Table 3-21 Description of adding IP parameters

Parameter	Description
Type	Select the address type from the **Type** list.
IP Version	IPv4 by default.
All Ports	Select **All Ports** check box, and your settings will apply to all ports.
Device Start Port	If you clear **All Ports** check box, set the device start port and device end port.
Device End Port	

Step 6   Click **Save**, and the **IP Authority** interface is displayed.

Step 7   Click **OK**.

- Click ✏ to edit the allowlist or blocklist.
- Click ✖ to delete the allowlist or blocklist

3.11.1.2 Prohibit PING

Procedure

Step 1   Select **Prohibit PING** from the **Type** list.

Step 2   Select the **Enable** check box.

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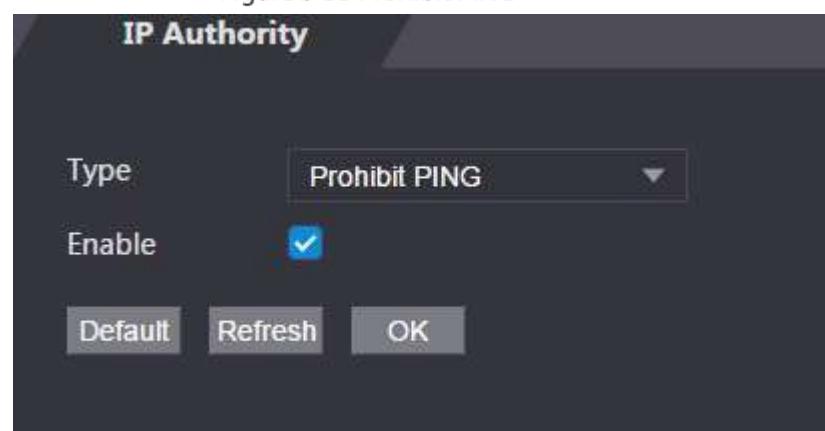
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Figure 3-33 Prohibit PING

Step 3   Click **OK**.

3.11.1.3 Anti Half Connection

Procedure

Step 1   Select the **Anti Half Connection** from the **Type** list.

Step 2   Select the **Enable** check box.

Step 3   Click **OK**.

3.11.2 Configuring System

Procedure

Step 1   Log in to the web interface.

Step 2   Select **Safety Mgmt.** > **System Service**.

Step 3   Enable or disable the system services as needed.

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Figure 3-34 System service
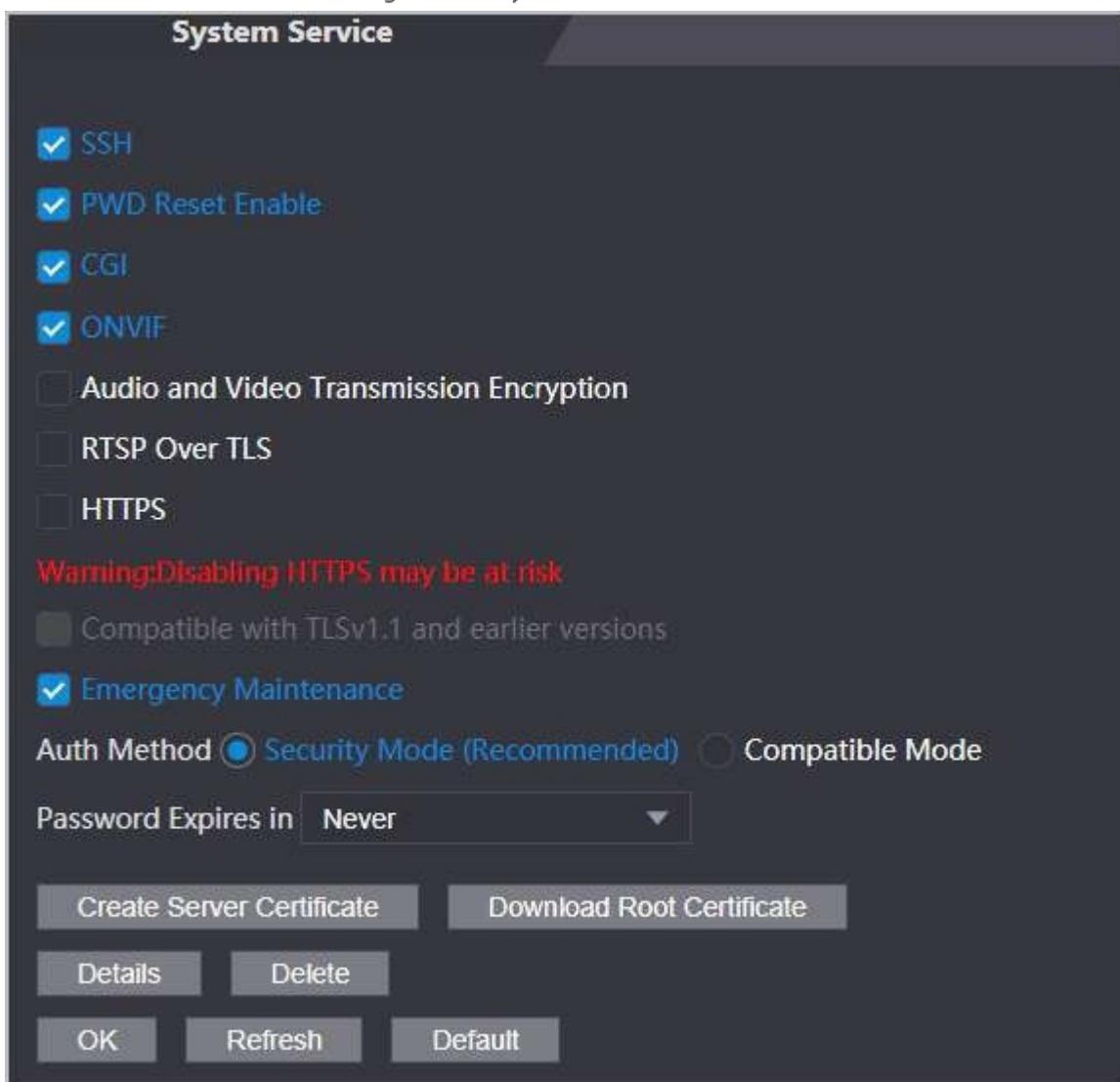
Table 3-22 Description of system service

Parameter	Description
SSH	Secure Shell (SSH) is a cryptographic network protocol for operating network services securely over an unsecured network. When SSH is enabled, SSH provides cryptographic service for the data transmission.
PWD Reset Enable	If enabled, you can reset the password. This function is enabled by default.
CGI	Common Gateway Interface (CGI) offers a standard protocol for web servers to execute programs similarly to console applications running on a server that dynamically generates web pages. When CGI is enabled, CGI commands can be used. The CGI is enabled by default.
ONVIF	Enable other devices to pull the video stream of the VTO via the ONVIF protocol.
Audio and Video Transmission Encryption	If this function is enabled, audio and video transmission is automatically encrypted.

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Parameter	Description
RTSP Over TLS	If this function is enabled, audio and video transmission is encrypted via THE RTSP protocol.
HTTPS	Hypertext Transfer Protocol Secure (HTTPS) is a protocol for secure communication over a computer network. When HTTPS is enabled, HTTPS will be used to access CGI commands; otherwise HTTP will be used.
Compatible with TLSv1.1 and earlier versions	Enable this function if your browser is using TLS V1.1 or earlier versions.
Emergency Maintenance	Enable it for faults analysis and maintenance.
Auth Method	We recommend you select the security mode .

Step 4   Click **OK**.

3.12 User Management

You can add or delete users, change users' passwords, and enter an email address for resetting the password when you forget your password.

3.12.1 Adding Users

You can add new users and then they can log in to the webpage of the Access Controller.

Procedure

Step 1   On the home page, select **User Mgmt. > User Mgmt.**.

Step 2   Click **Add**, and enter the user information.

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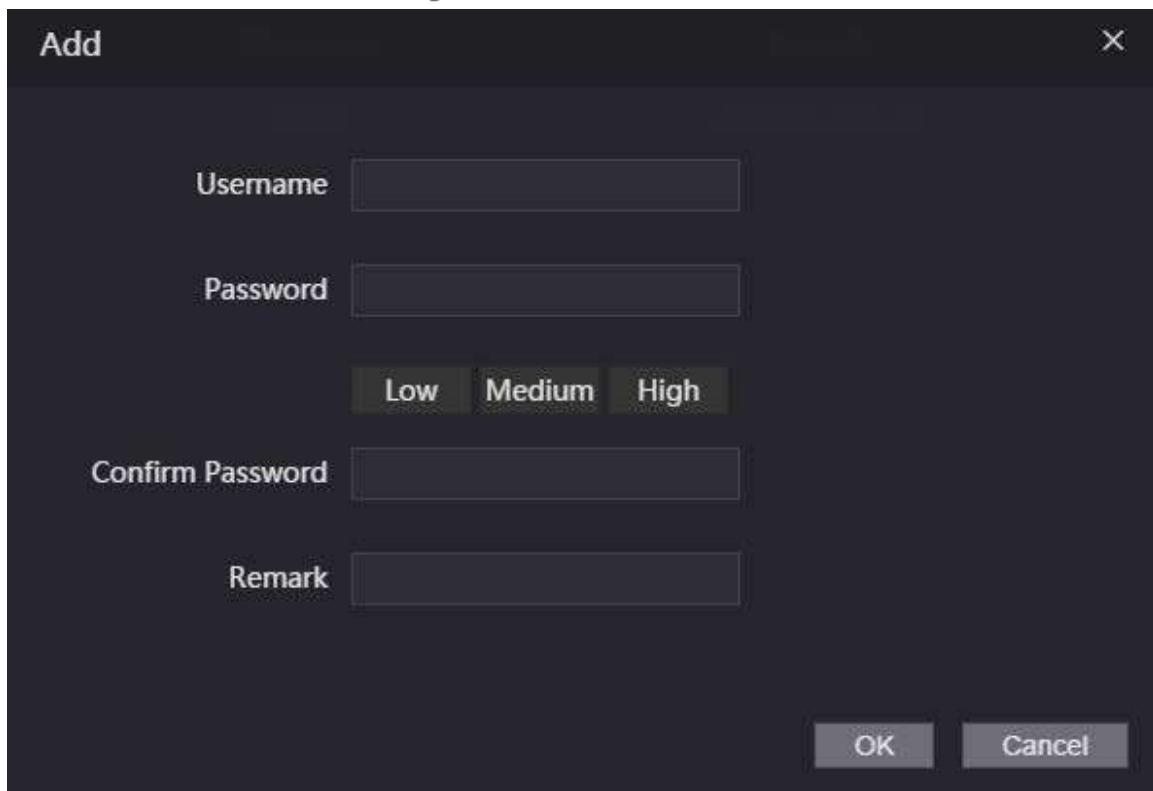
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- The username cannot be the same with existing account. The username consists of up to 31 characters and only allows for numbers, letters, underscores, midlines, dots, or @.
- The password must consist of 8 to 32 non-blank characters and contain at least two types of the following characters: Upper case, lower case, numbers, and special characters (excluding ' " ; : &).Set a high-security password by following the password strength prompt.

Figure 3-41 Add user

Step 3   Click **OK**.

Only admin account can change password and admin account cannot be deleted.

3.12.2 Adding ONVIF Users

Background Information

Open Network Video Interface Forum (ONVIF), a global and open industry forum that is established for the development of a global open standard for the interface of physical IP-based security products, which allows the compatibility from different manufactures. ONVIF users have their identities verified through ONVIF protocol. The default ONVIF user is admin.

Procedure

Step 1   On the home page, select **User Mgmt.** > **Onvif User**.

Step 2   Click **Add** and then configure parameters.

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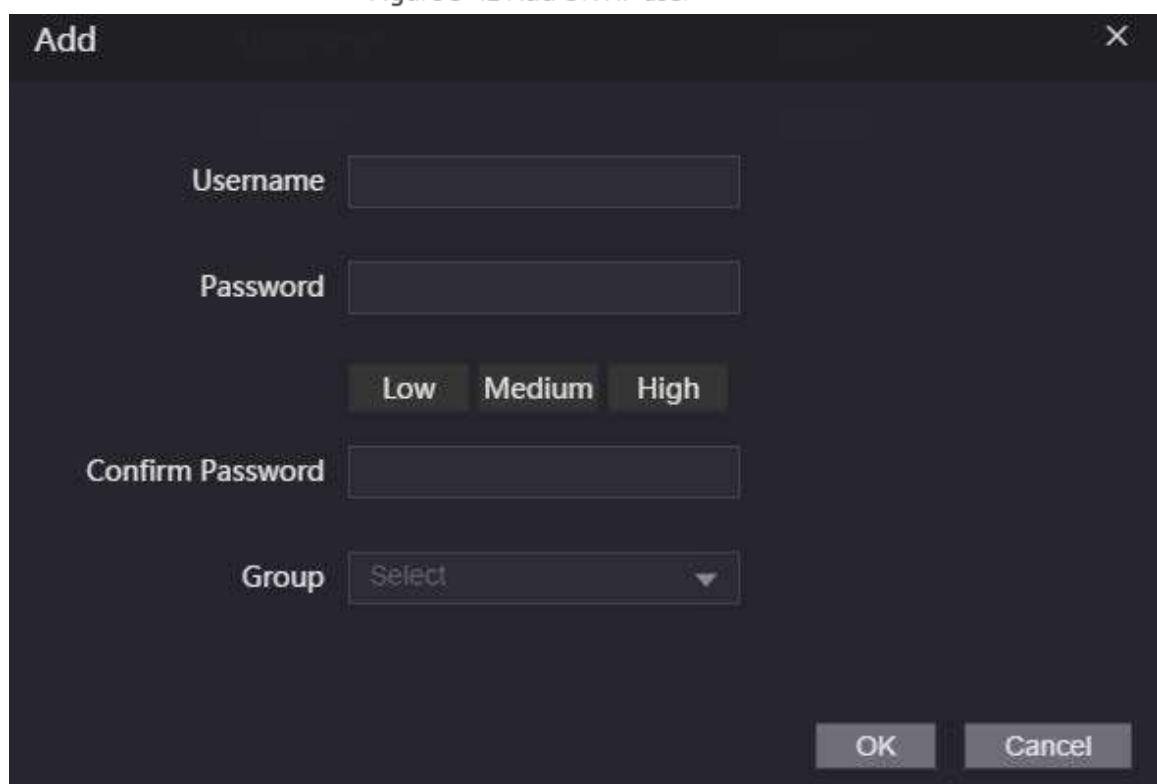
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Figure 3-42 Add ONVIF user

Step 3   Click **OK**.

3.12.3 Viewing Online Users

You can view online users who currently log in to the webpage.

Background Information

On the home page, select **Online User**.

3.13 Configuring Voice Prompts

Set voice prompts during identity verification.

Procedure

Step 1   On the home page, select **Audio Custom**.

Step 2   Select a prompt message from the **Type** list

Step 3   Click **Browse** to select an audio file, and then click **Upload**.

3.14 Maintenance

You can regularly restart the Access Controller during the idle time to improve its performance.

Procedure

Step 1   Log in to the webpage.

Step 2   Select **Maintenance**.

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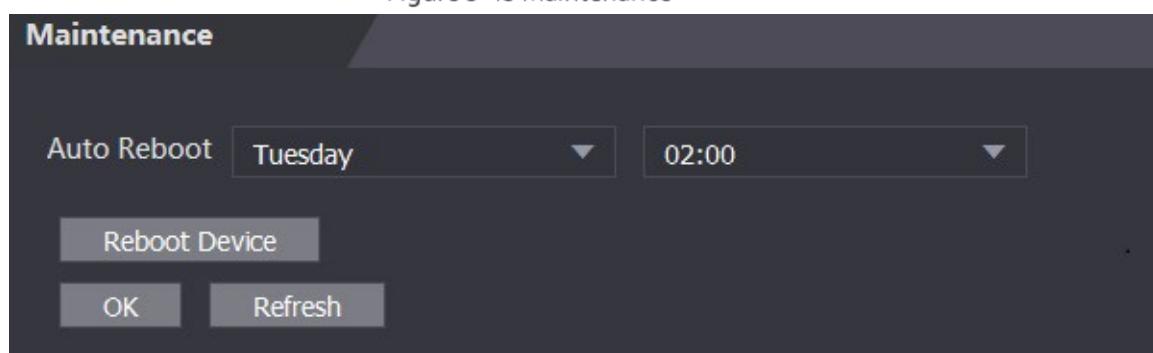
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Figure 3-43 Maintenance

Step 3   Set the time, and then click **OK**.

Step 4   (Optional) Click **Reboot Device**, the Access Controller will restart immediately.

3.15 Configuration Management

When more than one Access Controller need the same configurations, you can configure parameters for them by importing or exporting configuration files.

3.15.1 Exporting/Importing Configuration Files
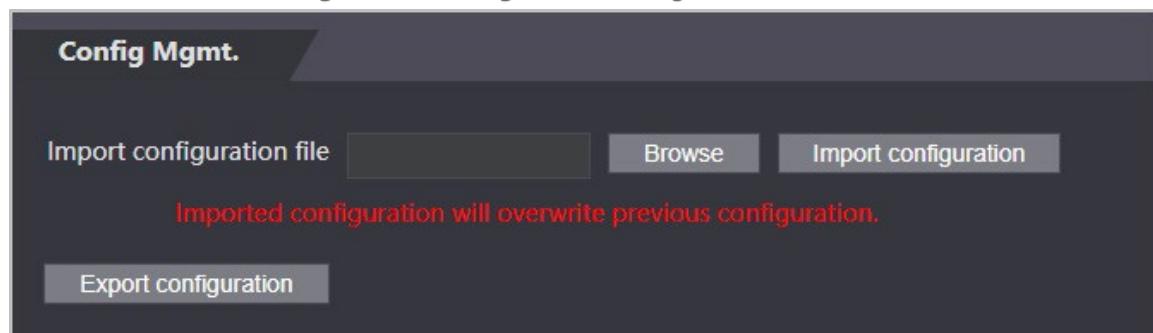
You can import or export the configuration file of the Access Controller. When you want to apply the same configurations to multiple devices, you can import the configuration file to them.

Procedure

Step 1   Log in to the webpage.

Step 2   Select **Config Mgmt.** > **Config Mgmt.**.

Figure 3-44 Configuration management

Step 3   Export or import configuration files.

- Export configuration file. Click **Export Configuration** to download the file to the local.

  IP will not be exported.
- Import configuration file.
  1. Click **Browse** to select the configuration file.
  2. Click **Import configuration**.

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Configuration file can only be imported to the device with the same model.

3.15.2 Restoring Factory Defaults

Background Information

⚠️

Restoring the **Access Controller** to default configurations will cause data loss. Please be advised.

Procedure

Step 1   Select **Config Mgmt.** > **Default**

Step 2   Restore factory defaults if necessary.

- **Restore Factory**: Resets configurations of the Access Controller and delete all data.
- **Restore Factory (Save user & log)**: Resets configurations of the Access Controller and deletes all data except for user information and logs.

3.15.3 Configuring the Shortcuts

Procedure

Step 1   On the webpage of the Access Controller, select **Cofig Mgmt.** > **Shortcut Set**.

Step 2   Configure the shortcut parameters.

Figure 3-45 Shortcut set

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Table 3-24 1

| Parameter	Description
Password	The icon of the password unlock method is displayed on the standby screen.
QR code	The icon of the QR code unlock method is displayed on the standby screen.
Doorbell	After the doorbell function is turned on, doorbell icon is displayed on the standby screen. ● RingBell: Tao the ring bell icon on the standby screen, and the Access Controller rings. ● Alarm Linkage: Turn on the alarm linkage function, and then doorbell rings. This function is only available on select models. ● RingBell Config: Select the ring bell 1 or ring bell 2. ● RingBell Times(s): Set ring time (1-30 s). The default value is 3.
Call	The icon of call function is displayed on the standby screen.
Call Type	● Call Room: Tap the call icon on the standby mode and enter the room number to make calls. ● Call Management Center: Tap the call icon on the standby mode, and then call the management center. ● Custom call room: Enter the number of room, and then you can tap the call icon on the standby screen to call the defined room number. Make sure the Access Controller was added to DMSS.

3.15.4 Configuring port functions

Some same wires can be used for different purposes. Please connect wires based on your needs.

Procedure

Step 1   On the webpage of the Access Controller, select **Config Mgmt.** > **Interface Config**.

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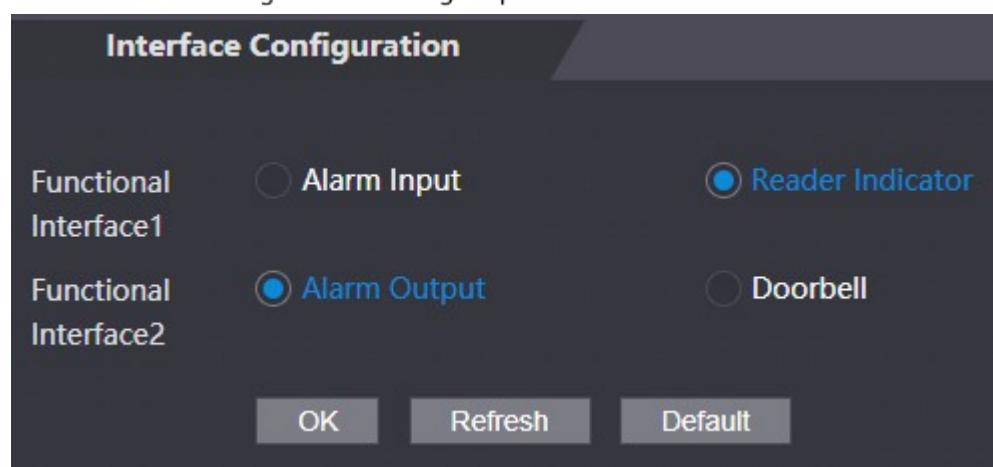
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Figure 3-46 Configure port functions

Step 2   Select the function of the port.

Step 3   Click **OK**.

3.16 Updating the System

⚠️
- Use the correct update file. Make sure you get the correct update file from the technical support.
- Do not disconnect the power supply or network, or restart or shut down the Access Controller during the update.

3.16.1 File Update

Procedure

Step 1   On the home page, select **Upgrade**.

Step 2   In the **File Upgrade** area, click **Browse**, and then upload the update file.

The upgrade file should be a .bin file.

Step 3   Click **Update**.

The Access Controller will restart after update completes.

3.16.2 Online Update

Procedure

Step 1   On the home page, select **Upgrade**.

Step 2   In the **Online Upgrade** area, select an update method.
- Select **Auto Check**, the Access Controller will automatically check whether the its latest version is available.
- Select **Manual Check**, and you can immediately check whether the latest version is available.

Step 3   Update the Access Controller when the latest version is available.

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3.17 Viewing Version Information

On the home page, select **Version Info**, and you can view version information, such as device model, serial number, hardware version, legal information and more.

3.18 Viewing Logs

View logs such as system logs, admin logs, and unlock records.

3.18.1 System Logs

View and search for system logs.

Procedure

Step 1   Log in to the webpage.

Step 2   Select **System Log** > **System Log**.

Step 3   Select the time range and the log type, and then click **Query**.

Click **Backup** to download the system log.

3.18.2 Admin Logs

Search for admin logs by using admin ID.

Procedure

Step 1   Log in to the webpage.

Step 2   Select **System Log** > **Admin Log**.

Step 3   Enter the admin ID, and then click **Query**.

3.18.3 Unlocking Logs

Search for unlock records and export them.

Procedure

Step 1   Log in to the webpage.

Step 2   Select **System Log** > **Search Records**.

Step 3   Select the time range and the log type, and then click **Query**.

You can click **Export Data** to download the log.

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Appendix 1 Important Points of Intercom Operation

The Access Controller can function as VTO to realize intercom function.

Prerequisites

The intercom function is configured on the Access Controller and VTO.

Procedure

Step 1   On the standby screen, tap 📞

Step 2   Enter the room No, and then tap 📞

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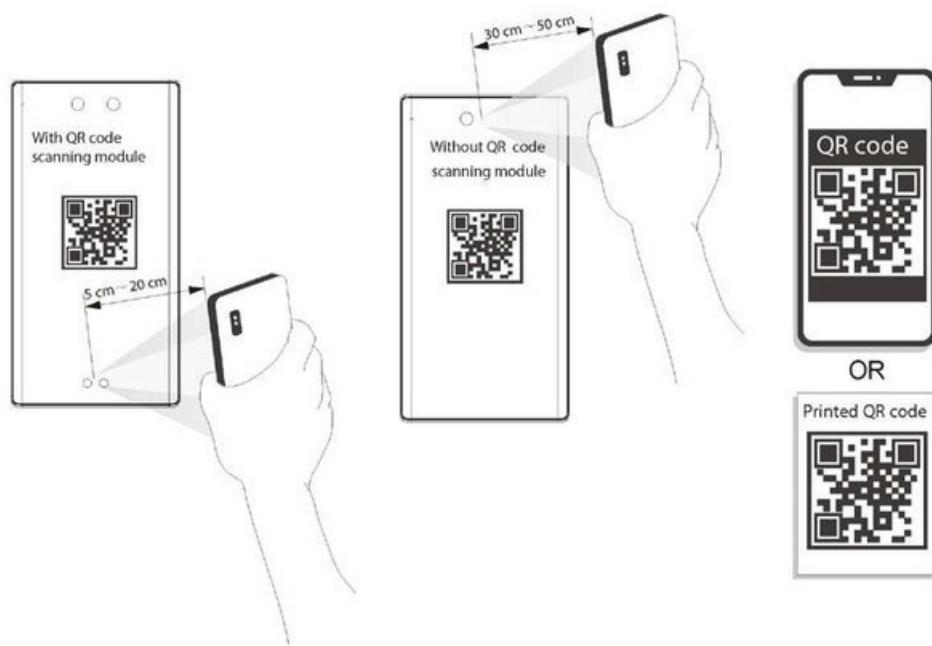
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Appendix 2 Important Points of QR Code Scanning

- Access Controller (with QR code scanning module): Place the QR code on your phone at a distance of 3 cm–5 cm away from the QR code scanning lens. It supports QR code that is larger than 30 mm× 30 mm–5 cm× 5 cm and less than 128 bytes in size.

QR code detection distance differs depending on the bytes and size of QR code.

Appendix Figure 2-1 QR code scanning

Appendix 3 Important Points of Fingerprint Registration Instructions
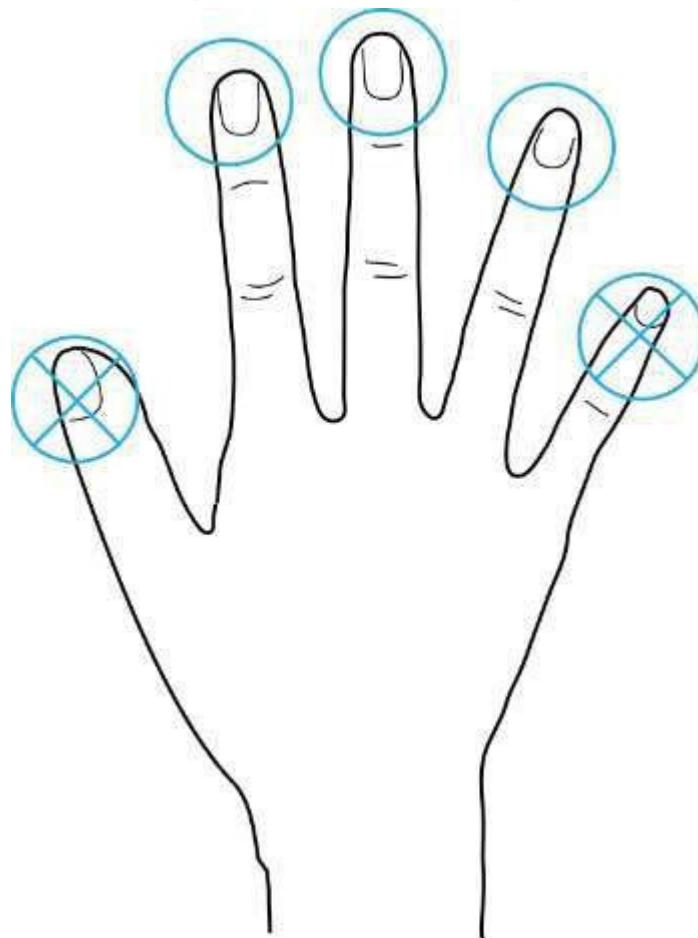
When you register the fingerprint, pay attention to the following points:

- Make sure that your fingers and the scanner surface are clean and dry.
- Press your finger on the center of the fingerprint scanner.
- Do not put the fingerprint sensor in a place with intense light, high temperature, and high humidity.
- If your fingerprints are unclear, use other unlocking methods.

Fingers Recommended

Forefingers, middle fingers, and ring fingers are recommended. Thumbs and little fingers cannot be put at the recording center easily.

Appendix Figure 3-1 Recommended fingers

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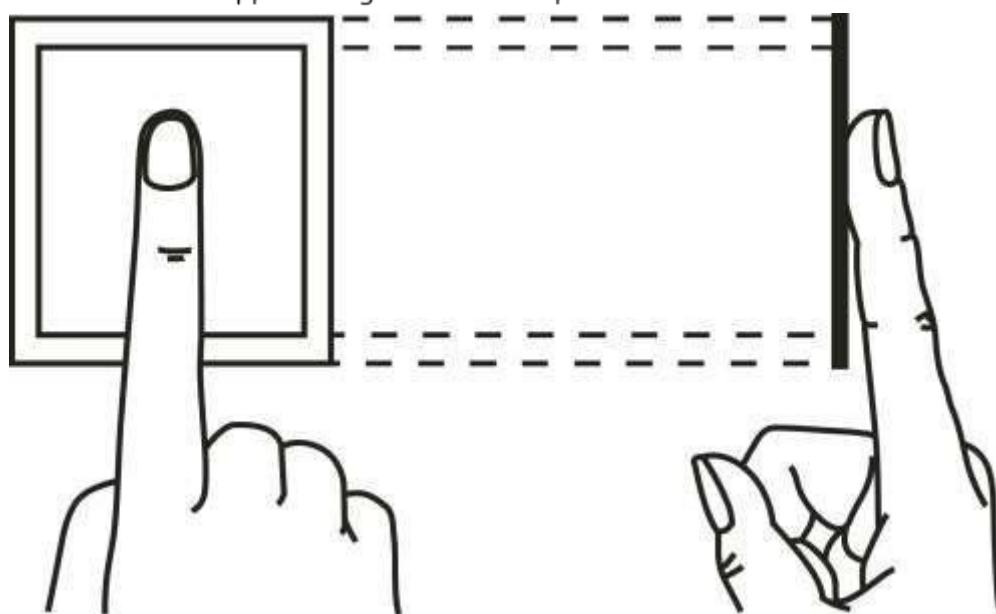
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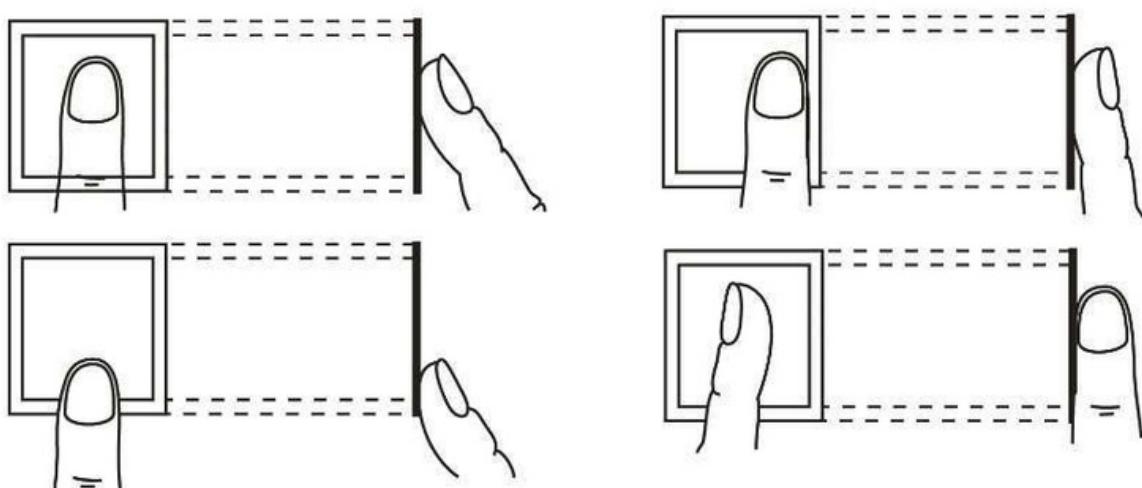
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How to Press Your Fingerprint on the Scanner

Appendix Figure 3-2 Correct placement

Appendix Figure 3-3 Wrong placement

Appendix 4 Important Points of Face Registration

Before Registration

- Glasses, hats, and beards might influence face recognition performance.
- Do not cover your eyebrows when wearing hats.
- Do not change your beard style greatly if you use the access controller; otherwise face recognition might fail.
- Keep your face clean.
- Keep the access controller at least 2 meters away from light source and at least 3 meters away from windows or doors; otherwise backlight and direct sunlight might influence face recognition performance of the access controller.

During Registration

- You can register faces through the Access Controller or through the platform. For registration through the platform, see the platform user manual.
- Make your head center on the photo capture frame. The face image will be captured automatically.

- Do not shake your head or body, otherwise the registration might fail.
- Avoid two faces appear in the capture frame at the same time.

Face Position

If your face is not at the appropriate position, face recognition accuracy might be affected.

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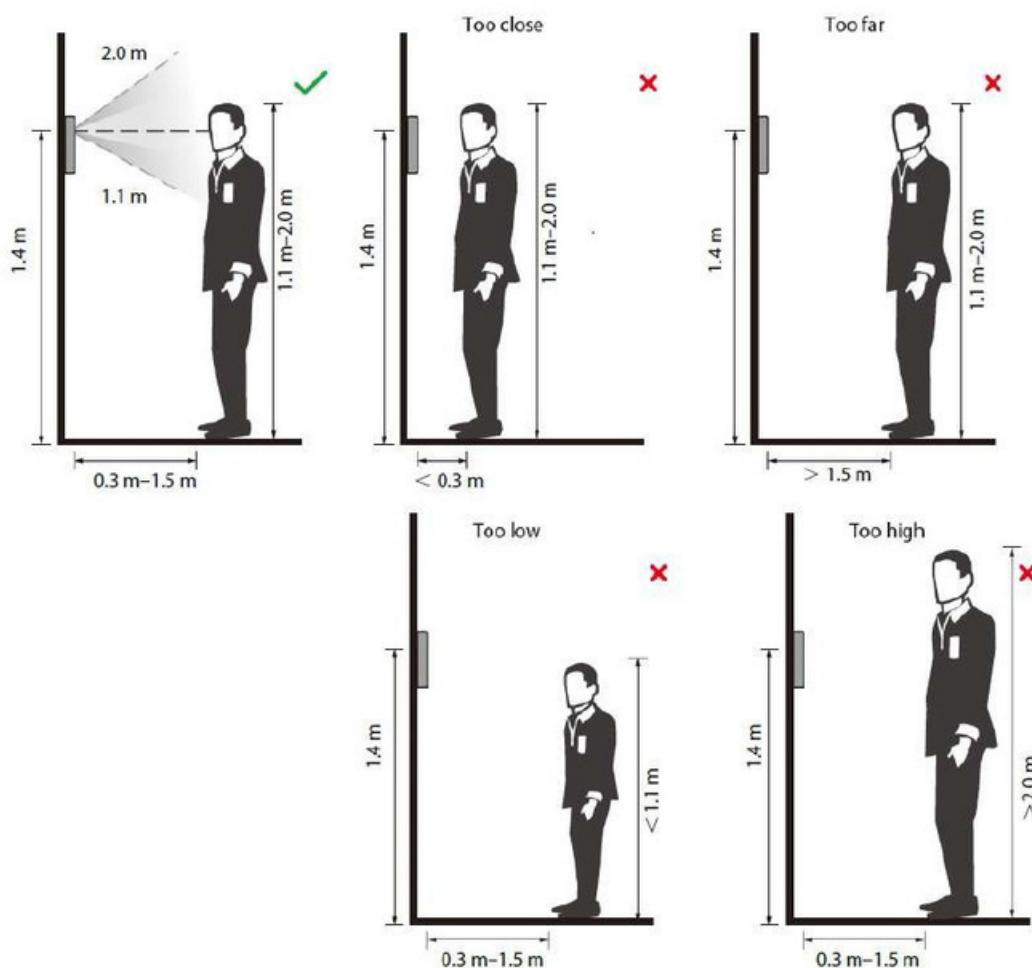
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Appendix Figure 4-1 Appropriate face position

Requirements of Faces

- Make sure that the face is clean and forehead is not covered by hair.
- Do not wear glasses, hats, heavy beards, or other face ornaments that influence face image recording.
- With eyes open, without facial expressions, and make your face toward the center of camera.
- When recording your face or during face recognition, do not keep your face too close to or too far from the camera.
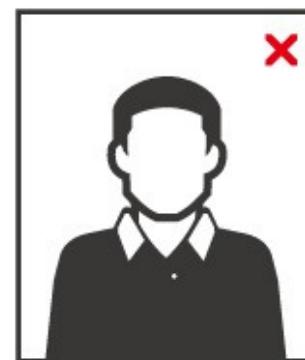
Appendix Figure 4-2 Head position

| Good | Inclined | Profile | Up | Down |

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Appendix Figure 4-3 Face distance

Good

Too Close

Too Far

- When importing face images through the management platform, make sure that image resolution is within the range 150 × 300 pixels–600 × 1200 pixels; image pixels are more than 500 × 500 pixels; image size is less than 100 KB, and image name and person ID are the same.
- Make sure that the face takes up more than 1/3 but no more than 2/3 of the whole image area, and the aspect ratio does not exceed 1:2.

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Appendix 5 Cybersecurity Recommendations

Mandatory actions to be taken for basic equipment network security:

1. **Use Strong Passwords**

   Please refer to the following suggestions to set passwords:
   - The length should not be less than 8 characters.
   - Include at least two types of characters; character types include upper and lower case letters, numbers and symbols.
   - Do not contain the account name or the account name in reverse order.
   - Do not use continuous characters, such as 123, abc, etc.
   - Do not use overlapped characters, such as 111, aaa, etc.

2. **Update Firmware and Client Software in Time**
   - According to the standard procedure in Tech-industry, we recommend to keep your equipment (such as NVR, DVR, IP camera, etc.) firmware up-to-date to ensure the system is equipped with the latest security patches and fixes. When the equipment is connected to the public network, it is recommended to enable the "auto-check for updates" function to obtain timely information of firmware updates released by the manufacturer.
   - We suggest that you download and use the latest version of client software.

"Nice to have" recommendations to improve your equipment network security:

1. **Physical Protection**

   We suggest that you perform physical protection to equipment, especially storage devices. For example, place the equipment in a special computer room and cabinet, and implement well-done access control permission and key management to prevent unauthorized personnel from carrying out physical contacts such as damaging hardware, unauthorized connection of removable equipment (such as USB flash disk, serial port), etc.

2. **Change Passwords Regularly**

   We suggest that you change passwords regularly to reduce the risk of being guessed or cracked.

3. **Set and Update Passwords Reset Information Timely**

   The device supports password reset function. Please set up related information for password reset in time, including the end user's mailbox and password protection questions. If the information changes, please modify it in time. When setting password protection questions, it is suggested not to use those that can be easily guessed.

4. **Enable Account Lock**

   The account lock feature is enabled by default, and we recommend you to keep it on to guarantee the account security. If an attacker attempts to log in with the wrong password several times, the corresponding account and the source IP address will be locked.

5. **Change Default HTTP and Other Service Ports**

   We suggest you to change default HTTP and other service ports into any set of numbers between 1024–65535, reducing the risk of outsiders being able to guess which ports you are using.

6. **Enable HTTPS**

   We suggest you to enable HTTPS, so that you visit Web service through a secure communication channel.

7. **MAC Address Binding**

   We recommend you to bind the IP and MAC address of the gateway to the equipment, thus

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reducing the risk of ARP spoofing.

8. **Assign Accounts and Privileges Reasonably**

   According to business and management requirements, reasonably add users and assign a minimum set of permissions to them.

9. **Disable Unnecessary Services and Choose Secure Modes**

   If not needed, it is recommended to turn off some services such as SNMP, SMTP, UPnP, etc., to reduce risks.

   If necessary, it is highly recommended that you use safe modes, including but not limited to the following services:

   - SNMP: Choose SNMP v3, and set up strong encryption passwords and authentication passwords.
   - SMTP: Choose TLS to access mailbox server.
   - FTP: Choose SFTP, and set up strong passwords.
   - AP hotspot: Choose WPA2-PSK encryption mode, and set up strong passwords.

10. **Audio and Video Encrypted Transmission**

    If your audio and video data contents are very important or sensitive, we recommend that you use encrypted transmission function, to reduce the risk of audio and video data being stolen during transmission.

    Reminder: encrypted transmission will cause some loss in transmission efficiency.

11. **Secure Auditing**

    - Check online users: we suggest that you check online users regularly to see if the device is logged in without authorization.
    - Check equipment log: By viewing the logs, you can know the IP addresses that were used to log in to your devices and their key operations.

12. **Network Log**

    Due to the limited storage capacity of the equipment, the stored log is limited. If you need to save the log for a long time, it is recommended that you enable the network log function to ensure that the critical logs are synchronized to the network log server for tracing.

13. **Construct a Safe Network Environment**

    In order to better ensure the safety of equipment and reduce potential cyber risks, we recommend:

    - Disable the port mapping function of the router to avoid direct access to the intranet devices from external network.
    - The network should be partitioned and isolated according to the actual network needs. If there are no communication requirements between two sub networks, it is suggested to use VLAN, network GAP and other technologies to partition the network, so as to achieve the network isolation effect.
    - Establish the 802.1x access authentication system to reduce the risk of unauthorized access to private networks.
    - Enable IP/MAC address filtering function to limit the range of hosts allowed to access the device.

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