Face Recognition Access Controller

User's Manual



V1.2.0

Foreword

General

This manual introduces the functions and operations of the Face Recognition Access Controller (hereinafter referred to as the "Device"). 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	
Anger Danger	Indicates a high potential hazard which, if not avoided, will result in death or serious injury.	
	Indicates a medium or low potential hazard which, if not avoided, could result in slight or moderate injury.	
CAUTIONIndicates a potential risk which, if not avoided, could re property damage, data loss, reductions in performance unpredictable results.		
© <u>∽∿</u> TIPS	Provides methods to help you solve a problem or save time.	
	Provides additional information as a supplement to the text.	

Revision History

Version	Revision Content Release Time	
V1.2.0	Updated communication settings, access control settings and more.	November 2023
V1.1.0	Updated the manual.	October 2023
V1.0.0	First Release.	June 2023

Privacy Protection Notice

As the device user or data controller, you might collect the personal data of others such as their face, audio, 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 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.
- If there is any uncertainty or controversy, we reserve the right of final explanation.

Important Safeguards and Warnings

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

Transportation Requirement



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

Storage Requirement



Store the Device under allowed humidity and temperature conditions.

Installation Requirements

- Do not connect the power adapter to the Device 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 Device.
- Do not connect the Device to two or more kinds of power supplies, to avoid damage to the Device.
- 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 Device in a place exposed to sunlight or near heat sources.
- Keep the Device away from dampness, dust, and soot.
- Install the Device on a stable surface to prevent it from falling.
- Install the Device 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 Device label.
- The Device is a class I electrical appliance. Make sure that the power supply of the Device 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 Device while the adapter is powered on.
- Operate the Device within the rated range of power input and output.

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

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1 Overview

The access controller is an access control panel that supports unlocking 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.

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

- Configurations might differ depending on the models of the product, please refer to the actual product.
- Devices with non-touch screen must connect to a mouse to perform configurations. This manual uses the device with touch screen as an example.
- Some models support connecting extension modules like QR code module, fingerprint module and more. The type of extension modules that the Device supports might differ, please refer to the actual product.

2 Local Operations

- Configurations might differ depending on the actual product.
- Models with no-touch screen needs connecting a wired USB mouse. This section uses the models with touch screen as an example.
- External expansion modules are only available on select models.
- You might see some UI texts are not displayed because of the limited space. Long press the text for 3 seconds and it will show.

2.1 Basic Configuration Procedure



Figure 2-1 Basic configuration procedure

2.2 Common Icons

Table 2-1 Description of icons

lcon	Description	
A	Main menu icon	
~	Confirm icon	
TC	Turn to the first page of the list.	
Я	Turn to the last page of the list.	
<or>or</or>	Turn to the previous page of the list.	
🕥 or 🔽	Turn to the next page of the list.	
\	Return to the previous menu.	
	Turn on	
OFF	Turn off	
ŵ	Delete	
Q	Search	

2.3 Standby Screen

You can unlock the door through faces, card, passwords, and QR code. You can also make calls through the intercom function. Unlock methods might differ depending on the models of the product.

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- If there is no operation in 30 seconds, the Device 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

No. Name Description		
NO.	Name	Description
1	Date and time	Current date and time.
2	Password	Enter user password or administrator password or temporary password to unlock the door.
3	QR code	 Tap the QR code icon and scan QR code to unlock the door. For models that have a standalone QR code module or connects a QR expansion module. The icon will be not displayed. You can simply place your QR code in front of the lens of Device or the expansion module, it will be automatically scanned.
4	Intercom	 When the Device functions as a server, it can call the VTO and VTH. When the management platform functions as a server, the Device can call the VTO, VTS and the management platform. When it works with DMSS, it can call DMSS.
5	Status display	Displays status of Wi-Fi, network, extension module, USB and more. Wi-Fi and extension modules are only available on select models.

Table 2-2 Home screen description

2.4 Initialization

For the first-time use or after restoring factory defaults, you need to select a language on Device, 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 Device and its webpage.

Ш

- 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 Device. Only admin account and administrator account can enter the main menu of the Device. 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 Device, but does not have door access permissions.
- Administrator account: Can log in to the main menu of the Device and has door access

permissions.

Procedure

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

- <u>Step 2</u> 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 on select models.

- 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.

2.6 Unlocking Methods

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

2.6.1 Unlocking by Cards

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

 \square

This function is only available on select models.

2.6.2 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.

2.6.3 Unlocking by User Password

Enter the user ID and password to unlock the door.

Procedure

- <u>Step 1</u> Tap i on the standby screen.
- <u>Step 2</u> Tap **Unlock by password**, and then enter the user ID and password.
- <u>Step 3</u> Tap **OK**.

2.6.4 Unlocking by Admin Password

Enter only the admin password to unlock the door. The door can be unlocked through admin password except for always closed door. One device allows for only one admin password.

Prerequisites

The admin password was configured. For details, see "2.7.3 Configuring the Admin Unlock

Password".

Procedure

- Step 1 Tap 🔛 on the standby screen.
- <u>Step 2</u> Tap **Unlock through Admin Password**, and then enter the admin password.
- <u>Step 3</u> Tap 🔽.
 - \square

Admin password cannot be used to unlock when the door status is set to always closed status.

2.6.5 Unlocking by QR code

Procedure

Step 1 On the standby screen, tap 🚟

 \square

The QR code icon is displayed only after you go to **Functions** > **Face Recognition** Interface Shortcut to enable **QR code**.

<u>Step 2</u> Place your QR code in front of the lens.

2.6.6 Unlocking by Fingerprint

Place you finger on the fingerprint scanner. This function is only available select models.

2.6.7 Unlocking by Temporary Password

Unlock the door by the temporary password.

Procedure

<u>Step 1</u> Add the Device to DMSS.

DMSS will generate a temporary password, which allow you unlock the door before it expires.

- <u>Step 2</u> On the home screen, tap is, and then tap **Unlock by Temporary Password**.
- <u>Step 3</u> Enter the temporary password, and then tap \checkmark

2.7 Person 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.

2.7.1 Adding Users

Procedure

- <u>Step 1</u> On the Main Menu, select Person Management > Create User.
- <u>Step 2</u> Configure the parameters on the interface.

	Figure 2-3 Add new user	
←	Create User	\checkmark
No.		3
Name		
Face		0
Card		0
Password		
User Permiss		User
Period		255-Default
Holiday Plan		255-Default
Validity Period		2037-12-31
User Type		General User

Figure 2-3 Add new user

Parameter	Description
No.	The No. is like employee ID, which can be numbers, letters, and their combinations, and the maximum length of the No. is 30 characters.
Name	The name can have up to 32 characters (including numbers, symbols, and letters).
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. Fingerprint function is only available on select models. We do not recommend you set the first fingerprint as the duress fingerprint. One user can only set one duress fingerprint. Fingerprint function is available if the Device supports connecting a fingerprint extension module.
Face	Position your face inside the frame, and a face image will be captured automatically. You can register again if you are not satisfied with the outcome.
Card	 A user can register up to 5 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. This function is only available on select models. One user can only set one duress card.
Password	Enter the user password. The maximum length of the password is 8 digits. The duress password is adding 1 based on the last digit of the unlock password. For example, if the user password is 12345, the duress password will be 12346; if the user password is 789, and then the duress password is 780. A duress alarm will be triggered when a duress password is used to unlock the door.
User Permission	 User: Users only have door access or time attendance permissions. Admin: Administrators can configure the Device besides door access and attendance permissions.
Period	People can unlock the door or take attendance during the defined period. For details on how to configure periods, see "3.6.7.1 Configuring Time Periods".
Holiday Plan	People can unlock the door or take attendance during the defined holiday. For details on how to configure periods, see "3.6.7.2 Configuring Holiday Plans".

Table 2-3 Parameters description

Parameter	Description		
Validity Period	Set a date on which the door access and attendance permissions of the person will be expired.		
User Type	 General User: General users can unlock the door. Blocklist User: When users in the blocklist unlock the door, an blocklist alarm will be triggered. Guest User: 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 User: Patrol users can take attendance on the Device, but they do not have door permissions. VIP User: When VIP unlocks the door, service personnel will receive a notification. Other User: When they unlock the door, the door will stay unlocked for 5 more seconds. Image: Custom User 1/Custom User 2: Same with general users. 		
Department	Select departments, which is useful when configuring department schedules. For how to create departments, see "2.9.1 Configuring Departments". This function is only available on select models.		
Schedule Mode	 Department Schedule: Apply department schedules to the user. Personal Schedule: Apply personal schedules to the user. For how to configure personal or department schedules, see "2.9.4 Configuring Work Schedules". This function is only available on select models. If you set the schedule mode to department schedule here, the personal schedule you have configured for the user in Attendance > Schedule 		

Step 3 Tap 🔽.

2.7.2 Viewing User Information

Procedure

<u>Step 1</u> On the Main Menu, select Person Management > User List, or select User > Admin List.

- <u>Step 2</u> View all added users and admin accounts.
 - 🗟: Unlock through password.
 - 🖃: Unlock through swiping card.
 - 🔝: Unlock through face recognition.
 - S: Unlock through fingerprint.

Related Operations

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

- Search for users: Tap **Q** and then enter the username.
- Edit users: Tap the user to edit user information.
- Delete users
 - ◊ Delete one by one: Select a user, and then tap .a.
 - Delete in batches:
 - On the **User List** screen, tap 💼 to delete all users.
 - On the **Admin List** screen, tap 💼 to delete all admin users.

2.7.3 Configuring the Admin Unlock Password

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

Procedure

- <u>Step 1</u> On the Main Menu screen, select User > Admin Unlock Password.
- <u>Step 2</u> Tap **Admin Unlock Password**, and then enter a password.
- <u>Step 3</u> Turn on the admin unlock function.

2.8 Access Control Management

You can configure settings for doors such as the unlocking mode, alarm linkage and door schedules. The available unlock modes might differ depending on the product model.

2.8.1 Configuring Unlock Combinations

Use card, fingerprint, face or password or their combinations to unlock the door. The available unlock modes might differ depending on the product model.

Procedure

<u>Step 1</u>	Select Access Control Management > Unlock Combination.
<u> </u>	

<u>Step 2</u> Select unlock methods.

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To cancel your selection, tap the selected method again.

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

• +And: Verify all the selected unlock methods to open the door.

\square

People have to complete verification in the order of card, fingerprint, face and password.

• /Or: Verify one of the selected unlock methods to open the door.

Figure 2-4 Element (multiple choice)

~	Combir	nation Unlock		\checkmark
	Element (I	Multiple Choice)		
	Card	Fing)) erprint	
	(ک	í í	23	
	Face	Pas	sword	
	Combin	nation Method		
	+And	/01		

<u>Step 4</u> Tap **✓** to save changes.

2.8.2 Configuring Alarms

An alarm will be triggered when the entrance or exit is abnormally accessed.

Procedure

- <u>Step 1</u> Select Access Control Management > Alarm.
- <u>Step 2</u> Enable the alarm type.

Alarm types might differ depending on the models of the product.



Parameter	Description	
Anti-passback	Users need to verify their identities both for entry and exit; otherwise an alarm will be triggered. This helps prevent card holders from being able to give their card to other people to allow them access. When anti-passback is enabled, the card holder must leave the secured area through an exit reader before the system will grant them access again. People need to swipe their card at the "in" reader to enter a secured area and swipe it at the "out" reader to get out of it. As long as the sequence is "in, out, in, out , ect", the system will work fine. • If a person enters after being verified, but exits without being verified, an alarm will be triggered if they attempt to enter again, and they will be denied access. • If a person enters without being verified, but exits after being verified, an alarm will be triggered if they attempt to enter again, and they will be denied access. • If a person enters without being verified, but exits after being verified, an alarm will be triggered if they attempt to enter again, and they will be denied access. • If the Device can only connect one lock, verifying on the Device means a "in" direction, and verifying on the external card reader means an "out" direction by default. You can modify the settings on the management platform.	
Duress	An alarm will be triggered when a duress card, duress password or duress fingerprint is used to unlock the door.	
Door Detector Door Detector Type	 With the door detector wired to your device, alarm can be triggered when doors are opened or closed abnormally. The door detector includes 2 types, including NC detector and NO detector. Normally Closed: The sensor is in a shorted position when the door or window is closed. Normally Open: An open circuit is created when the window or door is actually closed. 	
Intrusion	If the door is opened abnormally, an intrusion alarm will be triggered	
Local Alarm LinkageImageThe door detector and intrusion need to be enabled at the sar		
Door Timed Out	When the door remains unlocked for longer than the defined timeout	
Door Timeout Duration	duration, the door timeout alarm will be triggered and last for the defined time.	
Local Alarm Linkage	The door detector and door timed out function need to be enabled at the same time.	
Excessive Use Alarm	If the wrong password or card is used 5 times in a row within 60	
Local Alarm Linkage	seconds, the alarm for excessive use of illegal card will be triggered and lasts for a defined time.	

Table 2-4 Description of alarm parameters

2.8.3 Configuring the Door Status

Procedure

- <u>Step 1</u> On the Main Menu screen, select Access Control Management > Lock Status Config.
- Step 2 Set door status.



Figure 2-6 Lock status

Table 2-5 Parameters description

Parameter	Description
Door Status	• Normally Open: The door remains unlocked all the time.
	• Normally Closed: The door remains locked all the time.
	 Normal: If Normal is selected, the door will be locked and unlocked according to your settings.
Unlock Duration	After a person is granted access, the door will remain unlocked for a defined time for them to pass through.

2.9 Attendance Management

Time attendance supports attendance management both on the Device or and Smart PSS Lite. This section only uses configuring attendance on the Device as an example.



This function is only available on select models (devices of 4.3 inch series).

Figure 2-7 Configuration flow chart of time attendance



2.9.1 Configuring Departments

Procedure

- <u>Step 1</u> Select **Attendance** > **Department Settings**.
- <u>Step 2</u> Select a department, and then rename it.

There are 20 default departments. We recommend you rename them.

Figure	2-8 Create	e department	ts
inguic	2 0 Cicult	e acparancin	

←) ♠	Department List 🔨 🗸
ID	Department Group Name
1	Default
2	Default
3	Default
4	Default
5	Default
6	Default
7	Default
8	Default
9	Default
10	Default

Step 3 Tap 🗸

2.9.2 Configuring Shifts

Configure shifts to define time attendance rules. Employees need to come to work at the time scheduled for their shift to start, and leave at the end time, except when they choose to work overtime.

Procedure

<u>Step 1</u>	Select Attendance > Shift Config.
<u>Step 2</u>	Select a shift.
	Tap 🔄 to view more shifts. You can configure up to 24 shifts.
<u>Step 3</u>	Configure the parameters of the shift.

Figure 2-9 Create shifts

()	ihift 🗸 🗸
Shift Name	shift on Mond
Period 1	08:00-17:00
Period 2	00:00-00:00
Overtime Period	00:00-00:00
Limit for Arriving Late (.	5
Limit for Leaving Early (5

Table 2-6 Shift parameters description

Parameter	Description	
Shift Name	Enter the name of the shift.	
Period 1	Specify a time range when people can clock in and clock out for the workday.	
Period 2	If you only set one attendance period, employees need to clock in and out by the designated times to avoid an anomaly appearing on their attendance record. For example, if you set 08:00 to 17:00, employees must clock in by 08:00 and clock out from 17:00 onwards.	
	If you set 2 attendance periods, the 2 periods cannot overlap. Employees need to clock in and clock out for both periods.	
Overtime Period	Employees who clock in or out during the defined period will be considered as working beyond their normal work hours.	
Limit for Arriving Late (min)	A certain amount of time can be granted to employees to	
Limit for Leaving Early (min)	allow them to clock in a bit late and clock out a bit early. For example, if the regular time to clock in is 08:00, the tolerance period can be set as 5 minutes for employees who arrive by 08:05 to not be considered as late.	

• When the time interval between 2 periods is an even number, you can divide the time interval by 2, and assign the first half of the interval to the first period, which will be the clock out time. The second half of the interval should be assigned to the second period as the clock in time.

Figure 2-10 Time interval (Even number)



For example: If the interval is 120 minutes, then the clock-out time for period 1 is from 12:00 to 12:59, and the clock-in time for period 2 is from 13:00 to 14:00.

 \square

If a person clocks out multiple times during period 1, the latest time will be valid, and if they clock in multiple times during period 2, the earliest time will be valid.

• When the time interval between 2 periods is an odd number, the smallest portion of the interval will be assigned to the first period, which will be the clock out time. The largest portion of the interval will be assigned to the second period as the clock in time.

Figure 2-11 Time interval (even number)



For example: If the interval is 125 minutes, then the clock-out time for period 1 is from 11:55 to 12:57, and the clock-in time for period 2 is from 12:58 to 14:00. Period 1 has 62 minutes, and period 2 has 63 minutes.

\square

If a person clocks out multiple times during period 1, the latest time will be valid, and if they clock in multiple times during period 2, the earliest time will be valid.

\square

All attendance times are precise down to the second. For example, if the normal clock-in time is set to 8:05 AM, the employee who clocks in at 8:05:59 AM will not be considered as arriving late. But, the employee that arrives at 8:06 AM will be marked as late by 1 minute. Tap

2.9.3 Configuring Holiday Plans

Configure holiday plans to set periods for attendance to not be tracked.

Procedure

Step 4

<u>Step 1</u> Select **Attendance** > **Shift Config** > **Holiday**.

<u>Step 2</u> Click + to add holiday plans.

<u>Step 3</u> Configure the parameters.



Figure 2-12 Create holiday plans

Table 2-7 Parameters description

Parameter	Description		
Attendance Holiday No.	The number of the holiday.		
Attendance Holiday	The name of the holiday.		
Start Time	The start and end time of the holiday.		
End Time			
Step 4 Tap 🔽			

2.9.4 Configuring Work Schedules

A work schedule generally refers to the days per month and the hours per day that an employee is expected to be at their job. You can create different types of work schedules based on different individuals or departments, and then employees must follow the established work schedules.

Background Information

Refer to the flowchart to configure personal schedules or department schedules.



Figure 2-13 Configuring work schedules

Procedure

- <u>Step 1</u> Select **Attendance** > **Schedule Config**.
- <u>Step 2</u> Set work schedules for individuals.
 - 1. Tap Personal Schedule.
 - 2. Enter the user ID, and then tap
 - 3. On the calendar, select a day, and then select a shift. The shift is scheduled for the day.

\square

You can only set work schedules for the current month and the next month.

- 0 indicates break.
- 1 to 24 indicates the number of the per-defined shifts. For how to configure shifts, see "2.9.2 Configuring Shifts".
- 25 indicates business trip.
- 26 indicates leave of absence.

Figure 2-14 Schedule shifts to individuals

_							
	()	ft a	2023-0)6Mon	thly So	1	~
	Day	Mon	Tue	Wed	Thu	Fri	Sat
					1	1 2	03
		1 5					
		1 12					
		1 19					
							24
	25	1 26	27	28	29	30	

4. Tap 🔽.

<u>Step 3</u> Set works schedules for departments.

1. Tap Department Schedule.

- 2. Tap a department, and then select shifts for a week. Shifts are scheduled for the week.
- 0 indicates rest.
- 1 to 24 indicates the number of the per-defined shifts. For how to configure shifts, see "2.9.2 Configuring Shifts".
- 25 indicates business trip.
- 26 indicates leave of absence.



Figure 2-15 Schedule shifts to a department

2.9.5 Configuring the Verification Time Interval

When an employee clocks in and out multiple times within a set period, the earliest time will be valid.

Procedure

- <u>Step 1</u> Select **Attendance** > **Verification Interval (sec)**.
- <u>Step 2</u> Enter the time interval, and then tap \checkmark .

2.9.6 Configuring Attendance Modes

When you clock in or clock out, you can set the attendance modes to define the attendance status.

Procedure

- <u>Step 1</u> On the main menu screen, click **Attendance**.
- <u>Step 2</u> Enable **Local or Remote**, and then set the attendance mode.

The attendance records will also be synchronized to the management platform.

Figure 2-16 Attendance mode

← ♠	Attendance	
Auto/Manual Mode		
Auto Mode		OFF
Manual Mode		OFF
Fixed Mode		OFF

Table 2-8 Attendance mode

Parameter	Description
Auto/Manual Mode	The screen displays the attendance status automatically after you clock in or out, but you can also manually change your attendance status.
Auto Mode	The screen displays your attendance status automatically after you clock in or out.
Manual Mode	Manually select your attendance status when you clock in or out.
Fixed Mode	When you clock in or out, the screen will display the per-defined attendance status all the time.

<u>Step 3</u> Select an attendance mode.

<u>Step 4</u> Configure the parameters for the attendance mode.

Figure 2-17 Auto Mode/manual mode

<u>_</u>	
←	Auto/Manual Mode
Check In	06:00-09:59
Break Out	10:00-12:59
Break In	13:00-15:59
Check Out	16:00-20:59
Overtime Check In	00:00-00:00
Overtime Check Out	00:00-00:00

Figure 2-18 Fixed mode

← 🔒	Fixed Mode	
Check In		~
Break Out		
Break In		
Check Out		
Overtime Check In		
Overtime Check Out		

Table 2-9 Attendance mode parameters

Parameters	Description
Check In	Clock in when your normal workday starts.
Break Out	Clock out when your break starts.
Break In	Clock in when your break ends.
Check Out	Clock out when your normal workday starts.
Overtime Check In	Clock in when your overtime period starts.
Overtime Check Out	Clock out when your overtime period ends.

2.10 Communication Settings

Configure the network, serial port and Wiegand port to connect the Device to the network.

 \square

The serial port and the Wiegand port might differ depending on the models of Device.

2.10.1 Configuring Network

2.10.1.1 Configuring the IP Address

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

Procedure

- <u>Step 1</u> On the Main Menu, select Communication Settings > Network > IP Address.
- <u>Step 2</u> Set the IP Address.

←	IP Address	\checkmark
IP Address		172 3
Subnet Mask		255
Gateway Address		172. ;4.1
Preferred DNS		8.8.8.8
Alternate DNS		8.8.4.4
Enable/Disable DHCP		OFF
Cloud Service		

Figure 2-19 IP address configuration

Parameter	Description
IP Address/Subnet Mask/Gateway Address	The IP address, subnet mask, and gateway IP address must be on the same network segment.
Preferred DNS	The IP of the DNS server.
Parameter	Description
---------------------	---
Alternate DNS	The alternate IP of the DNS server.
Enable/Disable DHCP	It stands for Dynamic Host Configuration Protocol. When DHCP is turned on, the Device will automatically be assigned an IP address, subnet mask, and gateway.
Cloud Service	Manage devices without applying for DDNS, set port mapping and deploy transit servers.

2.10.1.2 Configuring Active Registration

Add the device to a management platform, so that you can manage it on the platform.

Procedure

<u>Step 1</u> On the Main Menu, select Communication Settings > Network > Auto Registration.

To avoid exposing the system to security risks and data loss, control the management platform permissions.



Figure 2-20 Active registration

<u>Step 2</u> Turn on the automatic registration function and set the parameters.

Table 2-11 Auto registration

Parameter	Description
Server Address	The IP address of the management platform.
Port	The port No. of the management platform.

Parameter	Description
	Enter the device ID (user defined).
Registration ID	When you add the Device to the management platform, the
	registration ID you enter on the management platform must conform
	to the defined registration ID on the Device.

2.10.1.3 Configuring Wi-Fi

You can connect the Device to the network through the Wi-Fi network.

Background Information

This function is only available on select models.

Procedure

<u>Step 1</u> On the Main Menu, select Communication Settings > Network > Wi-Fi.

Step 2 Turn on Wi-Fi.

 \square

- The Wi-Fi function is only available on select models.
- Wi-Fi AP and Wi-Fi function cannot be enabled at the same time.
- After Wi-Fi is enabled, wait about 1 minutes to connect Wi-Fi.
- <u>Step 3</u> Tap **Q** to search available wireless networks.
- <u>Step 4</u> Select a wireless network and enter the password. If the system does not find a Wi-Fi network, tap **SSID** to enter the name of the Wi-Fi.



Figure 2-21 Connect to Wi-Fi

2.10.1.4 Configuring Wi-Fi AP

This function is only available on select models.

Procedure

- <u>Step 1</u> On the **Main Menu**, select **Communication Settings** > **Network** > **Wi-Fi AP**.
- Step 2 Turn on Wi-Fi AP.



Result

Use your computer to connect to Wi-Fi AP of the Device to access its webpage.

2.10.2 Configuring Serial Port

 \square

This function is only available on select models.

Procedure

<u>Step 1</u> On the **Main Menu**, select **Communication Settings** > **Serial Port**.

<u>Step 2</u> Select an external device.

Figure 2-23 External device type



Table 2-12 Port description

External device	Description
	The Device functions as a card reader and sends data to other external access controllers to control access.
	Output Data type:
Access Controller	Card Number: Outputs data based on the card number
Access Controller	when users swipe their cards to unlock doors; outputs
	data based on user's first card number when users use
	other unlock methods.
	 No.: Outputs data based on the user ID.
Card Reader	The Device functions as a access controller, and connects to a external card reader.
Reader (OSDP)	The Device is connected to a card reader based on the OSDP protocol.
Door Control Security Module	After the security module is enabled, the door exit button, lock control and fire linkage of the Device become not effective, but the door exit button and lock control that connects to the security module become effective.
Turnstile	When the Device is connected to a turnstile, and the access controller board of the turnstile is connected to an external QR code module or card swiping module, the board will transmit the verification data to the turnstile.

2.10.3 Configuring Wiegand

The Device allows for both Wiegand input and output mode.

 \square

This function is only available on select models.

Procedure

- <u>Step 1</u> On the webpage, select **Communication Settings** > **Wiegand**.
- <u>Step 2</u> Select a Wiegand.
 - Select **Wiegand Input** when you connect an external card reader to the Device.

 \square

When the Device connects to a third-party device through the Wiegand input port, and the card number read by the Device is in the reverse order from the actual card number. In this case, you can turn on **Card No. Inversion** function.

• Select **Wiegand Output** when the Device functions as a card reader, and you need to connect it to a controller or another access terminal.

Figure 2-24 Wiegand output

← ♠	Wiegand Output Config
Wiegand Output Type	Wiegand34
Pulse Width	200 us
Pulse Interval	1000 us
Output Data Type	Card Number

Table 2-13 Description of Wiegand output

Parameter	Description
Wiegand Output Type	Select a Wiegand format to read card numbers or ID numbers.
	• Wiegand26: Reads 3 bytes or 6 digits.
	• Wiegand34: Reads 4 bytes or 8 digits.
	• Wiegand66: Reads 8 bytes or 16 digits.
Pulse Width	– Enter the pulse width and pulse interval of Wiegand output.
Pulse Interval	

Parameter	Description
Output Data Type	 Select the type of output data. No.: The system outputs data based on the user ID. The data format is hexadecimal or decimal.
	 Card Number: The system outputs data based on user's first card number.

2.11 System Settings

2.11.1 Configuring Time

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

Procedure

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

Configure system time. <u>Step 2</u>

	Figure 2-25 Time	
← ♠	Time	
24-Hour		
Date & Time		2023-05-31
Time		19:58:50
Date Format		уууу-MM-dd
DST Settings		>
NTP Time Sync		>
Time Zone		UTC+08:00

-. 2-25 Ti

Parameter	Description
24-hour System	The time is displayed in 24-hour format.
Date & Time	Set up the date.
Time	Set up the time.
Date Format	Select a date format.
DST Setting	 Tap DST Setting and enable it. Select Date or Week from the DST Type list. Enter the start time and end time. Tap .
NTP Time Sync	 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 be updated. 1. Tap NTP Check, and then enable it. 2. Configure the parameters. Server Address: Enter the IP address of the NTP server, and the Device will automatically sync time with the NTP server. Port: Enter the port of the NTP server. Interval: Enter the time synchronization interval.
Time Zone	Select the time zone.

Table 2-14 Description of time parameters

2.11.2 Configuring Face Parameters

Face parameters might differ depending on the models of the Device.

Procedure

- <u>Step 1</u> On the main menu, select **System Settings** > **Face Parameter Config**.
- <u>Step 2</u> Configure the face parameters, and then tap



Figure 2-26 Face parameter (01)

Table 2-15 Description of face parameters

Name	Description
Face Recognition Threshold	Adjust the accuracy level of face recognition. Higher threshold means higher accuracy and lower false recognition rate.
Max Face Recognition Angle Deviation	Set the largest angle that a face can be posed in for face detection. The larger the value, the larger the range for the face angle. If the angle a face is positioned in is not within the defined range, it might not be detected properly.
Pupillary Distance	A certain number of pixels are required between the eyes for recognition to be successful. The default number is 45 pixels. This number changes based on the size of the face and the distance between the face and the lens. If an adult is 1.5 meters away from the lens, the pupillary distance is usually 50 - 70 px.
Valid Face Interval (sec)	When the same face remains in front of the lens after the first successful recognition, the Device will perform recognition again for the face after a defined interval.
invalid Face Interval (sec)	When the same face remains in front of the lens after the first failed recognition, the Device will perform recognition again for the face after a defined interval.
Enable Anti-spoofing	This prevents people from being able to use photos, videos, mask and other substitutes to gain unauthorized access.
Enable Beautifier	Beautify captured face images.

Name	Description
Enable Helmet Detection	Detects safety helmets. The door will not unlock for persons that are not wearing their helmet.
	Mask mode:
	 Do Not 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 a mask, but they will still be allowed access.
Mask Parameters	No Authorization without Wearing Face Mask: Mask is
	detected during face recognition. If a person is not
	wearing a mask, the system will remind them to wear
	masks, and access will be denied.
	 Mask Recognition Threshold: The higher the threshold, the more accurate face recognition will be when a person is wearing a mask, and there will be a lower false recognition rate.
Multi-face Recognition	Detects 4 to 6 face images at a time. Combination unlock cannot be used with this, and the door will be unlocked when one of the people are successfully verified.
	The number of face images which are supported might differ
	depending on the model of the product.
	• Auto: The illuminator is turned on in low-light conditions.
	• Disable: The illuminator is turned off all the time.
Illuminator Mode	
	This function is only available on select models.

2.11.3 Setting the Volume

You can adjust the volume of the speaker and microphone.

Procedure

- <u>Step 1</u> On the **Main Menu**, select **System Settings** > **Volume Settings**.
- <u>Step 2</u> Select **Beep Volume** or **Microphone Volume**, and then tap 🛨 or 📃 to adjust the volume.

2.11.4 Configuring the Language

Change the language on the Device. On the **Main Menu**, select **System Settings** > **Language**, select

the language for the Device.

2.11.5 Screen Settings

Configure when the display should turn off and the logout time.

Procedure

<u>Step 1</u> On the **Main Menu**, select **System** > **Screen Settings**.

Step 2 Tap Logout Time or Screen Off Settings, and then tap 🛨 or 📃 to adjust the time.

- Logout Time: The system goes back to the standby screen after a defined time of inactivity.
- Screen Off Settings: The system goes back to the standby screen and then the screen turns off after a defined time of inactivity. For example, if the logout time is set to 15 seconds, and the screen off time is set to 30 seconds, the system goes back to the standby screen after 15 seconds, and then the screen will turn off after another 15 seconds.

 \square

The logout time must be less than the screen off time.

2.11.6 (Optional) Configuring Fingerprint Parameters

Configure fingerprint detection accuracy. The higher the value, the higher the similarity threshold and accuracy is.

Background Information

 \square

This function is only available on select models, and some supports being connected to a fingerprint extension module.

Procedure

<u>Step 1</u> On the Main Menu, select System Settings > Fingerprint Parameter Settings.

Step 2 Tap 🛨 or 🔚 to adjust the value.

2.11.7 Restoring Factory Defaults

Procedure

- <u>Step 1</u> On the **Main Menu**, select **System Settings** > **Factory Defaults**.
- <u>Step 2</u> Restore factory defaults if necessary. Restore the factory default settings if necessary.
 - **Factory Defaults**: Resets all configurations and data except for IP settings and the type of the extension module.
 - **Restore to Default Settings (except for user information and logs)**: Resets all the configurations except for user information and logs.

2.11.8 Restarting the Device

On the Main Menu, select System Settings > Restart, and the Device will be restarted.

2.12 Functions Settings

On the Main Menu screen, select Functions.

 \square

The functions might differ depending on the model of the product.



Figure 2-27 Functions

Table 2-16 Function description		
Parameter	Description	
Private Setting	 Password Reset: The password can be reset when you turn on this function. Enable 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 Device will automatically restart. Enable CGI: Common Gateway Interface (CGI) offers a standard protocol for web servers to execute programs similar to how console applications run on a server that dynamically generates webpage. The CGI is enabled by default. Enable SSH: Secure Shell (SSH) is a cryptographic network protocol for operating network services securely over an unsecured network. The data transmitted will be encrypted after this function is enabled. Fingerprint Image: The fingerprint image is displayed when you unlock through fingerprint. This function is only available on select models. Capture: Face images will be captured automatically when people unlock the door. Clear All Snapshots: Delete all automatically captured photos. 	
Push Notifications	 Displays the notification on the screen when a person is verifying their identity on the Device. High Speed Mode: The system prompts Successfully verified or Not authorized on the screen. Simple Mode: Displays user ID, name and verification time after access is granted, and displays Not authorized and the authorization time after access is denied. Standard: Displays the user's registered face image, user ID, name and verification time after access is granted, and displays Not authorized and displays Not authorized and the verification time after access is denied. Contrast Mode: Displays the captured face image and a registered face image of a user, user ID, name and authorization time after access is granted, and authorization time after access is granted face image and a registered face image of a user, user ID, name and authorization time after access is granted, and displays Not 	

Table 2-16 Function description

Parameter	Description
Face Recognition Interface Shortcut	 Select identity verification methods on the standby screen. Password: It's icon is displayed on the standby screen. QR code: It's icon is displayed on the standby screen. This function is only available on select models. Doorbell: It's icon is displayed on the standby screen. Local Device Ringer: Tap the ring bell icon on the standby screen, Device will ring. Ringtone Config: Select a ringtone Ringtone Time (sec): Set ring time (1-30 seconds). The default value is 3. Alarm: Tap the ring bell icon, and the external alarm device rings. This function is only available on select models. Call: It's icon 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 a call. Call Management Center: Tap the call icon on the standby screen to call the pre-defined room. You can call DMSS only in this call type. SIP Server: You can turn on SIP to set the Device to SIP server.
Expansion Module	 Select an expansion module, and the Device will restart. is displayed on the right corner on the standby screen, which means it was successfully set. is displayed on the right corner on the standby screen, which means setup failed. Expansion module is only available on select models. Expansion module does not support hot swapping. The configuration for the expansion module remains unchanged even after the system is restored to its factory settings.

2.13 USB Management

You can use a USB to update the Device, and export or import user information or attendance

records through USB.

 \square

- Make sure that a USB is inserted to the Device before you export data or update the system. To
 avoid failure, do not pull out the USB or perform any operation of the Device during the process.
- You can use a USB to export the information from an access controller to another access controller. Face images are not allowed to be imported through USB.
- Importing/exporting attendance records is only available on select models.

2.13.1 Exporting to USB

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

Procedure

<u>Step 1</u> On the Main Menu, select USB Management > USB Export.

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

 \square

- When the data is exported in Excel, it can be edited.
- The USB disk supports the format in FAT32, and the storage capacity is 4 GB—128 GB. Personnel information, facial features, card data, fingerprint data are encrypted when exporting.

2.13.2 Importing from USB

You can import data from USB to the Device.

Procedure

- <u>Step 1</u> On the Main Menu, select USB Management > USB Import.
- <u>Step 2</u> Select the data type that you want to export, and then tap **OK**.

2.13.3 Updating the System

Update the system of the Device through USB.

Procedure

- <u>Step 1</u> Rename the update file to "update.bin", put it in the root directory of the USB, and then insert the USB to the Device.
- <u>Step 2</u> On the **Main Menu**, select **USB Management** > **USB Update**.
- <u>Step 3</u> Tap **OK**.

The Device will restart when the updating completes.

 \square

Do not power off the Device during the update.

2.14 Record Management

On the main menu, select **Record Management** > **Search for Unlock Records**. The unlock records are displayed. You can search for record by user ID.

2.15 System Information

You can view data capacity and device version.

2.15.1 Viewing Data Capacity

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

2.15.2 Viewing Device Version

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

3 Web Operations

On the webpage, you can also configure and update the Device.

 \square

Web configurations differ depending on models of the Device.

3.1 Initialization

Initialize the Device when you log in to the webpage for the first time or after the Device 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 Device.

Procedure

<u>Step 1</u> Open a browser, go to the IP address (the default address is 192.168.1.108) of the Device.

 \square

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

- Step 2 Select a language on Device.
- <u>Step 3</u> Set the password and email address according to the screen instructions.
 - \square
 - 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

- <u>Step 1</u> Open a browser, enter the IP address of the Device in the **Address** bar, and press the Enter key.
- <u>Step 2</u> Enter the user name and password.

 \square

- 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,
- Step 3 Click Login.

3.3 Resetting the Password

Reset the password through the linked e-mail when you forget the admin password.

Procedure

- <u>Step 1</u> On the login page, click **Forgot password**.
- <u>Step 2</u> Read the on-screen prompt carefully, and then click **OK**.
- <u>Step 3</u> Scan the QR code, and you will receive a security code.

Figure 3-1 Reset password

	Note (for admin only): Please use an app that can scan and identify QR codes to scan the QR code on the left. Please send the esults of the scan to support_rpwd@global.dai.uatech.com. imail Address: 1***@eom
Security code:	
	Next

\square

- Up to two security codes will be generated when the same QR code is scanned. If the security code becomes invalid, refresh the QR code and scan again.
- After you scan the QR code, you will receive a security code in your linked e-mail address. Use the security code within 24 hours after you receive it. Otherwise, it will become invalid.
- If the wrong security code is entered 5 times in a row, the administrator account will be frozen for 5 minutes.
- <u>Step 4</u> Enter the security code.
- Step 5 Click Next.
- <u>Step 6</u> Reset and confirm the password.

\square

The password should consist of 8 to 32 non-blank characters and contain at least two of the following types of characters: upper case, lower case, number, and special character (excluding ' " ; : &).

Step 7 Click OK.

3.4 Home Page

The home page is displayed after you successfully log in.

Figure 3-2 Home page

web service	â			◎ & admin ◎ % 2
	Person Management	Access Control	Intercom Settings	
	_	_	_	- 1
	-			
	Attendance Config	Audio and Video Config	Communication Settings	
	_	• •	_	

Table 3-1 Home page description

No.	Description
1	Main menu.
	• 🔤: Enter the home page.
	• 🔀: Display in full screen.
2	• 💿: Enter the Security page.
	 A adminent Log out or restart the device.
	 Select a language on the device.

3.5 Person Management

Procedure

- <u>Step 1</u> On the home page, select **Person Management**, and then click **Add**.
- <u>Step 2</u> Configure user information.

	Figu	re 3-3 A	dd users		
Add					Х
Basic Info					
* User ID			Name		
* Department	1-	\sim	* Schedule Mode	Department Schedule	\sim
Validity Period	2037-12-31 23:59:59	Ë	* Permission	User	\sim
* User Type	General User	\sim	* Times Used	Unlimited	
* Period	255-Default	\sim	* Holiday Plan	255-Default	\sim
Verification Mode					
∨ Face					Not Added
+ Upload					
 The image s 	ize must not exceed 100KB. S	upported	formats: jpg.		
> Password					Not Added
> Card					Not Added
Add Add Mor	Cancel				

Table 3-2 Parameters description

Parameter	Description
User ID	The User ID. is like employee ID, which can be numbers, letters, and their combinations, and the maximum length of the number. is 30 characters.
Name	The name can have up to 32 characters (including numbers, symbols, and letters).
Department	Add users to a department. If a department schedule is

Parameter	Description
Schedule Mode	 assigned to the person, they will follow the established department schedule. For how to create department, see "2.9.1 Configuring Departments". Department Schedule: Assign department schedule to the user. For details, see "2.9.4 Configuring Work Schedules". Personal Schedule: Assign personal schedule to the user. For details, see "2.9.4 Configuring Work Schedules". Personal Schedule: Assign personal schedule to the user. For details, see "2.9.4 Configuring Work Schedules". Implement Personal Schedule to the user. For details, see "2.9.4 Configuring Work Schedules". Implement Personal Schedule to the user. For details, see "2.9.4 Configuring Work Schedules". Implement Personal Schedule on select models. If you set the schedule mode to department schedule here, the personal schedule you have configured for the user in Attendance > Schedule Config > Personal Schedule is invalid.
Validity Period	Set a date on which the door access and attendance permissions of the person will be expired.
Permission	 User: Users only have door access or time attendance permissions. Admin: Administrators can configure the Device besides door access and attendance permissions.
User Type	 General User: General users can unlock the door. Blocklist User: When users in the blocklist unlock the door, service personnel will receive a notification. Guest User: 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 User: Patrol users can take attendance on the Device, but they do not have door permissions. VIP User: When VIP unlock the door, service personnel will receive a notice. Other User: When they unlock the door, the door will stay unlocked for 5 more seconds. Custom User 1/Custom User 2: Same with general users.
Time Used	Set an unlock limit for guest users. After the unlock times run out, they cannot unlock the door.
Period	People can unlock the door or take attendance during the defined period.
Holiday Plan	People can unlock the door or take attendance during the defined period.

Parameter	Description
Face	Click Upload to upload a face image. Each person can only add up to 2 face images. You can view or delete the face image after you upload it. The face image is in jpg format and must be less than 100 KB.
Card	 This function is only available on select models. Enter the card number manually. Click Add. Enter the card number, and then click Add. Read the number automatically through a card reader. Make sure that the card reader is connected to your computer. Click Read Card, and then swipe cards on the card reader. A 60-second countdown is displayed to remind you to swipe cards, and the system will read the card number automatically. If the 60-second countdown expires, click Read Card again to start a new countdown. Click Add. A user can register up to 5 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. E Set duress card. Change card number.
Password	Enter the user password. The maximum length of the password is 8 digits. The duress password is the unlock password + 1. For example, if the user password is 12345, the duress password will be 12346. A duress alarm will be triggered when a duress password is used to unlock the door.

Parameter	Description	
	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.	
	Fingerprint function is only available on select	
FP	models.	
	 We do not recommend you set the first fingerprint as 	
	the duress fingerprint.	
	 One user can only sets one duress fingerprint. 	
	• Fingerprint function is available if the Device supports	
	connecting a fingerprint module.	



Related Operations

• Import user information: Click **Export Template**, and download the template and enter user information in it. Place face images and the template in the same filepath, and then click **Import User Info** to import the folder.

Up to 10,000 users can be imported at a time.

- Clear: Clear all users.
- Refresh: Refresh the user list.

3.6 Configuring Access Control

3.6.1 Configuring Access Control Parameters

3.6.1.1 Configuring Basic Parameters

Procedure

- <u>Step 1</u> Select Access Control > Access Control Parameters.
- <u>Step 2</u> In **Basic Settings**, configure basic parameters for the access control.

Figure 3-4 Basic parameters

Basic Settings			
Name			
Door Status	Normal Always Closed Always C	Open	
Normally Open Period	Period Disabled \lor	Holiday Plan Disabled	\vee
Normally Closed Period	Period Disabled \lor	Holiday Plan Disabled	\vee
Unlock Notifications Mode	Contrast Mode 🗸		

Table 3-3 Basic parameters description

Parameter	Description	
Name	The name of the door.	
Door Status	 Set the door status. Normal: The door will be unlocked and locked according to your settings. Always Open: The door remains unlocked all the time. Always Closed: The door remains locked all the time. 	
Normally Open Period	When you select Normal, you can select a time template from the	
Normally Closed Period	 drop-down list. The door remains open or closed during the defined time. For details on how to configure periods and holiday plans, see "3.6.7 Configuring Schedules". When normally open period conflicts with normally closed period, normally open period takes priority over normally closed period. When period conflict with holiday plan, holiday plans takes priority over periods. 	
Unlock Notification	 Displays the notification on the screen when a person verifying their identity on the Device. High Speed Mode: The system prompts Successfully verified or Not authorized on the screen. Simple Mode: Displays user ID, name and verification time after access granted; displays Not authorized and authorization time after access denied. Standard: Displays user's registered face image, user ID, name and verification time after access granted; displays the captured face image and a registered face image of a user, user ID, name and authorization time after access granted; displays the captured face image and a registered face image of a user, user ID, name and authorization time after access granted; displays Not authorization time after access denied. 	

Step 3 Click Apply.

3.6.1.2 Configuring Unlock Methods

You can use multiple unlock methods to unlock the door, such as fingerprint, card, and password. You can also combine them to create your own personal unlock method.

Procedure

<u>Step 1</u> Select Access Control > Access Control Parameters.

<u>Step 2</u> In **Unlock Settings**, select an unlock mode.

- Combination unlock
 - 1. Select Combination Unlock from the Unlock Mode list.
 - 2. Select **Or** or **And**.
 - Or: Use one of the selected unlock methods to open the door.
 - And: Use all the selected unlock methods to open the door.
 - 3. Select unlock methods, and then configure other parameters.

F	igure 3-5 Unlock settings

Unlock Method	Combination Unlock V
Combination Method	● Or ○ And
Unlock Method (Multi-select)	🗸 Card 🔽 Fingerprint 🔽 Face 🔽 Passwo
Door Unlocked Duration	3.0 s (0.2-600)
Remote Verification	

Table 3-4 Unlock settings description

Parameter Description		
i didilettei	Beschphon	
Unlock Method (Multi-select)	Unlock methods might differ depending on the models of product.	
Door Unlock Duration	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 seconds.	
Unlock Timeout	When the door detector and the unlock timeout alarm are enabled, a timeout alarm will be triggered if the door remains unlocked longer than the defined unlock time.	
Remote Verification	Open the door remotely.	
Unlock Timeout	to 600 seconds. When the door detector and the unlock timeout alarm are enabled, a timeout alarm will be triggered if the door remains unlocked longer than the defined unlock time.	

- Unlock by period
 - 1. In the Unlock Mode list, select Unlock by Period.
 - 2. Drag the slider to adjust time period for each day.



You can also click **Copy** to apply the configured time period to other days.

3. Select an unlock method for the time period, and then configure other parameters.

ock Method	Unlock by Period	Time 10:00:00 - 23:59:59 O	
0	2 3 4 5 6 7 8 9 10 11 12		
Sun	Card/Fingerprint/	Fa OK Delete	Сору
Mon		Card/Fingerprint/Face/Password	Сору
Tue	Card/Fingerprint/	Face/Password	Сору
Wed	Card/Fingerprint/	Face/Password	Сару
Thu	Card/Fingerprint/	Face/Password	Сору
Fri	Card/Fingerprint/	Face/Password	Сору
Sat	Card/Fingerprint/	Early/Pacsword	Сору

Figure 3-6 Unlock by period

- Unlock by multiple users.
 - 1. In the Unlock Mode list, select Unlock by multiple users.
 - 2. Click Add to add groups.
 - 3. Select unlock method, valid number and user list.
 - If only one group is added, the door unlocks only after the number of people in the group who grant access equals the defined valid number.
 - If more than one groups are added, the door unlocks only after the number of people in each group who grant access equals the defined valid number.

\square

- ♦ You can add up to 4 groups.
- The valid number indicates the number of people in each group who need to verify their identities on the Device before the door unlocks. For example, if the valid number is set to 3 for a group, any 3 people in the group need to verify their identities to unlock the door.

Step 3 Click Apply.

3.6.2 Configuring Alarms

An alarm will be triggered when an abnormal access event occurs.

Procedure

- <u>Step 1</u> Select Access Control > Alarm > Alarm.
- <u>Step 2</u> Configure alarm parameters.



Table 3-5 Description of alarm parameters

Parameter	Description	
Duress Alarm	An alarm will be triggered when a duress card, duress password or duress fingerprint is used to unlock the door.	

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 to 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 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 they attempt to enter again, and access is denied at the same time. If the Device can only connect one lock, verifying on the Device means entry direction, and verifying on the external card reader means exit direction by default. You can modify the setting on the management platform. 	
Door Detector	 With the door detector wired to your device, alarm can be triggered when doors are opened or closed abnormally. The door detector includes 2 types, including NC detector and NO detector. Normally Closed: The sensor is in a shorted position when the door or window is closed. Normally Open: An open circuit is created when the window or door is actually closed. 	
Local Alarm Linkage	If the door is opened abnormally, an intrusion alarm will be	
Intrusion	triggered and last for a defined time.	
Door Timeout Duration	When the door remains unlocked for longer than the	
Local Alarm Linkage	defined timeout duration, the door timeout alarm will be triggered and last for the defined time.	
Door Timed Out	The door detector and door timed out function need to be enabled at the same time.	
Local Alarm Linkage	If the wrong password or card is used 5 times in a row	
Excessive Use Alarm <u>itep 3</u> Click Apply .	within 60 seconds, the alarm for excessive use of illegal card will be triggered and lasts for a defined time.	

Step 3 Click **Apply**.

3.6.3 Configuring Alarm linkages (Optional)

You can configure alarm linkages.

Procedure

```
<u>Step 1</u> Select Access Control > Alarm > Alarm Linkage Setting.
```

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- If the Device is added to a management platform, the alarm settings will be synchronized to the platform.
- This function is only available on models that have alarm input and alarm output ports.
- The number of alarm input and output ports differs depending on models of the product.

<u>Step 2</u> Click ∠ to configure alarm.

	1	Name	Zonel
Alarm Input Type	Normally Open V	Link Fire Safety Control	
Alarm-out Port			
Duration	30	s (1-300)	
Alarm Output Channel	✓ 1		
Access Control Linkage			
() When the heat ala	rm signal disappears, the door will	automatically return to the nor	mal authentication mode.
Linkage Mode	Weak Execution \lor		

Figure 3-8 Alarm linkage

<u>Step 3</u> Create a name for the alarm zone.

<u>Step 4</u> Enable Link Fire Safety Control, and select a type for the alarm input device.

- Normally Closed: The alarm input is in a normally closed (NC) circuit state when the alarm has not been tripped. Opening a normally closed circuit sets off the alarm.
- Normally Open: The alarm input device is in a normally open (NO) circuit state when the alarm has not been tripped. Closing the circuit sets off the alarm.

<u>Step 5</u> If you want to link access control when fire alarm is triggered, enable **Access Control Linkage**.

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This function takes effect only after Link Fire Safety Control is enabled.

Step 6 Select a linkage mode.

- Strong Execution: When the fire alarm signal disappears, the door remains the current status. Please manually changes to its previous door status settings if you want to.
- Weak Execution: When the fire alarm signal disappears, the door automatically returns to its previous door status.

Step 7 Select a channel type.

- Normally Open: The door automatically opens when fire alarm is triggered.
- Normally Closed: The door automatically closes when fire alarm is triggered.

Step 8 Click OK.

3.6.4 Configuring Face Detection

Configure face detection parameters. Face parameters might differ depending on models of the product.

Procedure

<u>Step 1</u> Log in to the webpage.

<u>Step 2</u> Select Access Control > Face Detection.

Figure 3-9 Face detection parameters

Sec.	Recognition	Face Recognition Threshold	85	(0-100)
Contraction of the second seco	Exposure	Max Face Recognition Angl	30	(0-90)
		Anti-spoofing Level	Close Oceneral High	
and the second se		Illuminator	🔿 Close 💿 Auto	
		Valid Face Interval (sec)	3	(1-60)
and the second se		Invalid Face Interval (sec)	3	(1-60)
•		Pupillary Distance	60	(0-500)
Target Filter		Mask mode	Do Not Detect \lor	
Min Size 256 * 256		Face Mask Threshold	75	(0-100)
Draw Target Clear Detection Area		Beautifier		
Detection Area Clear		Enable Helmet Detection		
		Multi-face Recognition		
Apply Refresh Default		Night Mode		

<u>Step 3</u> Configure the parameters.

Table 3-6 Description of face parameters

Name	Description
Face Recognition Threshold	Adjust the accuracy level of face recognition. Higher threshold means higher accuracy and lower false recognition rate.
Max Face Recognition Angle Deviation	Set the largest angle that a face can be posed in for face detection. The larger the value, the larger the range for the face angle. If the angle a face is positioned in is not within the defined range, it might not be detected properly.
Anti-spoofing Level	This prevents people from being able to use photos, videos, mask and other substitutes to gain unauthorized access.

Name	Description
Illuminator	 Auto: The illuminator is turned on in low-light conditions. Disable: The illuminator is turned off all the time. This function is only available on select models.
Valid Face Interval (sec)	When the same face remains in front of the lens after the first successful recognition, the Device will perform recognition again for the face after a defined interval.
Invalid Face Interval (sec)	When the same face remains in front of the lens after the first failed recognition, the Device will perform recognition again for the face after a defined interval.
Pupillary Distance	A certain number of pixels are required between the eyes for recognition to be successful. The default number is 45 pixels. This number changes based on the size of the face and the distance between the face and the lens. If an adult is 1.5 meters away from the lens, the pupillary distance is usually 50 - 70 px.
Mask Mode	 Do Not 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 a mask, but they will still be allowed access. No Authorization without Wearing Face Mask: Mask is detected during face recognition. If a person is not wearing a mask, the system will remind them to wear masks, and access will be denied.
Face Mask Threshold	The higher the threshold, the more accurate face recognition will be when a person is wearing a mask, and there will be a lower false recognition rate.
Beautifier	Beautify captured face images.
Enable Helmet Detection	Detects safety hats. The door will not unlock if the a person does not wear a helmet.
Multi-face Recognition	Detects 4 to 6 face images at a time. Combination unlock cannot be used with this, and the door will be unlocked when one of the people are successfully verified.
Night Mode	In dark environment, the standby screen displays white background image to improve the brightness when verifying face or QR code.

<u>Step 4</u>	Configure the exposure parameters.
---------------	------------------------------------

Figure 3-10 Exposure parameters

200	Recognition	Channel No.	1 V	
	Exposure	Face Exposure		
		Face Target Brightness	50	(0-100)
		Face Exposure Interval Dete	10	s (1-28800)
and the second se				
Target Filter				
Min Size 256 * 256				
Draw Target Clear				
Detection Area				
Detection Area Clear				
Apply Refresh Default				

Table 3-7 Exposure parameters description

Parameter	Description
Channel No.	Channel 1 is the white light mode.
	 Channel 2 is the infrared light mode.
Face Exposure	After the face exposure function is enabled, the face will
Face Target Brightness	be exposed at the defined brightness to detect the face image clearly.
Face Exposure Interval Detection	The face will be exposed only once in a defined interval.

- <u>Step 5</u> Draw the face detection area.
 - 1) Click **Detection Area**.
 - 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 6 Draw the target size.
 - 1) Click Draw Target.
 - 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 by the Device.
- <u>Step 7</u> Draw the detection area.
- Step 8 Click OK.

3.6.5 Configuring Card Settings

Background Information

This function is only available on select models.

Procedure

- <u>Step 1</u> Log in to the webpage.
- <u>Step 2</u> Select Access Control > Card Settings.
- <u>Step 3</u> Configure the card parameters.

Figure 3-11 Card parameters

Card Settings
IC Card
IC Card Encryption & Verification
Block NFC Cards
Enable DESFire Card
DESFire Card Decryption
Apply Refresh Default
Card No. System
After the number system is changed, the card numbers will become invalid.
Card No. System Hexadecimal Decimal
Apply Refresh Default
DESFire Card Write
Please place the card on the swiping area and enable DESFire card and DESFire Card Decryption.
Card Number
Write

ltem	Parameter	Description
Card Settings	IC Card	The IC card can be read when this function is enabled. This function is only available on select models.
	IC Card Encryption & Verification	The encrypted card can be read when this function is enabled.
	Block NFC Cards	 Prevent unlocking through duplicated NFC card after this function is enabled. This function is only available on models that support IC cards. Make sure IC Card is enabled. NFC function is only available on select models of phones.
	Enable Desfire Card	 The Device can read the card number of Desfire card when this function is enabled. This function is only available on models that support IC cards. Only supports hexadecimal format.
	Desfire Card Decryption	 Information in the Desfire card can be read when Enable Desfire Card and Desfire Card Decryption are enabled at the same time. This function is only available on models that support IC cards. Make sure that Desfire card is enabled.
Card No. System	Card No. System	Select decimal format or hexadecimal format for the card number when Wiegand card reader is connected. The card No. system is the same for both card number input and output.
DESFire Card Write	Card Number	 Place the card on the reader, enter the card number, and then click Write to write card number to the card. Desfire card function must be enabled. Only supports hexadecimal format. Supports up to 8 characters.

Table 3-8 Card parameters description

Step 4 Click Apply.

3.6.6 Configuring QR Code

Procedure

<u>Step 1</u> On the webpage, select **Access Control** > **Card Settings**.



Parameters	Description	
Enable QR Code Exposure	The QR code will be exposed at the defined brightness, and the QR code can be detected and read clearly.	
QR Code Brightness		
QR Code Exposure Interval (sec)	The QR code will be exposed only once during the defined interval.	
QR Code Pass-through	When the Device is connected to a third-party platform, scan the OR code on the Device and the QR code is directly sent to the third-party platform.	
QR Code Validity Period (min)	After the QR code is generated, and the validity of your QR codes will last for a defined time before it expires.	

3.6.7 Configuring Schedules

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

3.6.7.1 Configuring Time Periods

You can configure up to 128 periods (from No.0 through No.127) of time periods. In each period, you need to configure door access schedules for a whole week. People can only unlock the door during

the scheduled time.

Procedure

- <u>Step 1</u> Log in to the webpage.
- <u>Step 2</u> Select Access Control > Period Config > Period.
- Step 3 Click Add.



Figure 3-13 Configure time periods

<u>Step 4</u> Drag the time slider to configure time for each day.

<u>Step 5</u> (Optional) Click **Copy** to copy the configuration to the rest of days.

Step 6 Click OK.

3.6.7.2 Configuring Holiday Plans

You can configure up to 128 holiday groups (from No.0 through No.127), and for each holiday group, you can add up to 16 holidays in it. After that, you can assign the configured holiday groups to the holiday plan. Users can only unlock the door in the defined time in the holiday plan.

Procedure

<u>Step 1</u>	Log in to the webpage.
<u>Step 2</u>	Select Access Control > Period Config > Holiday Plan.
<u>Step 3</u>	Click Holiday Management, and then click Add.
C +	

<u>Step 4</u> Select a number for the holiday group, and then enter a name for the group.
Figure 3-14 Add a holiday group

Add							Х
No.	2					~	
Holiday Group Name	Holiday G	roup for 2023					
Holiday Group Config	Add						
	No.	Holiday Name	Start Time	End Time	Operation		
	1	National Day	2023-10-01	2023-10-07	⊿₫		
					ОК	Ca	ancel

Step 5Click Add, and then add a holiday in a holiday group.Step 6Click OK.



Edit			Х
Holiday Name	National Day		
* Period	2023-10-01	→ 2023-10-07	Ë
		ОК	Cancel

<u>Step 7</u> Click **Plan Management**, and then click **Add**.

<u>Step 8</u> Select a number for the holiday plan, and then enter a name for it.

Step 9Select a holiday group, and then drag the slider to configure time for each day.Supports adding up to 4 time sections on a day.

Figure 3-16 Add holiday plan

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4
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3.6.8 Privacy Settings

Procedure

- <u>Step 1</u> On the webpage, select **Access Control** > **Privacy Settings**.
- Step 2Enable snapshot function.Face images will be captured automatically when people unlock the door.

Figure 3-17 Enable snapshot

Snapshot			
Apply	Refresh	Default	



3.6.9 Configuring Expansion Modules

For Device that supports connecting expansion modules, configure the type of the module that the Device supports.

Background Information

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- The type the expansion module might differ depending on models of the Device.
- The settings of expansion module remain after restoring the Device to factory defaults.

- <u>Step 1</u> On the webpage, select **Access Control** > **Expansion Module**.
- <u>Step 2</u> Select the type of the module that the Device supports.

Step 3 Click Apply.

The configurations become effective after Device is restarted.

- 📓 is displayed on the right corner of the Device is the setting is effective.
- Solution is displayed on the right corner of the Device, which means the type of the expansion module you configured does not match the actual expansion module that is connected to Device.
- If **None** is selected and no expansion module is connected to the Device, the expansion module icon will not be displayed.

3.6.10 Configuring Port Functions

Some ports can function as different ports, you can set them to different ports based on the actual needs.

Background Information

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- This function is only available on select models.
- Ports might differ depending on the models of the product.

Procedure

- <u>Step 1</u> On the webpage, select **Access Control** > **Port Config**.
- <u>Step 2</u> Select the type of the port.
- Step 3 Click Apply.

Figure 3-18 Configure ports

Functional Interface1		● Alarm-out Port ○ Doorbell	
Apply	Refresh	Default	

3.7 Configuring Intercom

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

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Intercom function is only available on select models.

3.7.1 Using the Device as the SIP Server

3.7.1.1 Configuring SIP Server

When the Device functions as the SIP server, it can connect up to 500 access control devices and

VTHs.

Procedure

<u>Step 1</u> Select Intercom Settings > SIP Server.

<u>Step 2</u> Turn on **SIP Server**.

\wedge

The device settings will be automatically restored to factory defaults if the SIP server status changes.

Figure 3-19 Use the Device as the SIP server

SIP Server	
Server Type	Device Name V
IP Address	19 111
Port	5080
Username	8001
Password	•••••
SIP Domain	VDP
SIP Server Username	
SIP Server Password	
Apply Refresh	Default

Step 3 Click **Apply**.

3.7.1.2 Configuring Local Parameters

When the Device functions as the SIP server, configure the parameters of the Device.

<u>Step 1</u>	Select Intercom Settings > Local Device Config.
<u>Step 2</u>	Configure the parameters.

Figure 3-20 Basic parame	eters
--------------------------	-------

Device Type	Door Station V	
No.	8001	
Group Call		
Management	888888	
Apply R	efresh Default	

Table 3-10 Basic parameters description

Parameter	Description
Device Type	Select Door Station .
No.	Cannot be set.
Group Call	When you turn on the group call function, the door station calls the main VTH and the extensions at the same time. The setup is effective after the door station restarts.
Management Center	The default call number of the management center is 888888+VTS No. For the VTS No, go to the Project Setting > General of the management center.

Step 3 Click Apply.

3.7.1.3 Adding the VTO

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

- <u>Step 1</u> On the webpage of the Device, select **Intercom Settings** > **Device Setting**.
- <u>Step 2</u> Click **Add**, and then configure the VTO.

Add		×
Device Type	VTO	\vee
* No.	Please enter	
* Registration Password	•••••	0
Building No.		
Unit No.		
* IP Address	12	1
* Username	Please enter	
* Password	Please enter	0
	ОК	Cancel

Figure 3-21 Add VTO

Table 3-11 Add VTO configuration

Parameter	Description	
Device Type	Select VTO .	
No.	To view the VTO number, go to the Device screen of VTO, and then enter the VTO number on this page.	
Registration Password	Keep it default.	
Building No.	Connet be configured	
Unit No.	Cannot be configured.	
IP Address	The IP address of the added VTO.	
Username	The username and password that are used to log in to the webpage of the	
Password	added VTO.	
Password	added VIO.	

Step 3 Click **OK**.

3.7.1.4 Adding the VTH

When the Device functions as the SIP Server, you can add all VTHs in the same unit to the SIP server

to make sure that they can call each other.

Background Information

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- 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 "3.7.1.2 Configuring Local Parameters".
- Extension cannot be added when the main VTHs are not added.

Procedure

- <u>Step 1</u> On the home page, select **Intercom Settings** > **Device Setting**.
- Step 2 Add the VTH.
 - Add one by one.
 - 1. Click Add.
 - 2. Configure parameters, and then click **OK**.

Figure 3-22 Add one by one

Add		Х
Device Type	VTH	\vee
Add Mode	Add One by One	~
First Name	Please enter	
Last Name	Please enter	
Alias	Please enter	
* Room No.	Please enter	
Registration Mode	Public	\sim
* Registration Password	•••••	0
	c	K Cancel

Parameter	Description
First Name	
Last Name	Enter the name of the VTH to help you differentiate VTHs.
Alias	
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.
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.
Registration Mode Registration Password	Keep them as defaults.

Table 3-12 Room information

• Add in batches.

1. Click Add in Batches.

2. Configure the parameters.

3. Click Add.

Add		Х
Device Type	VTH V	
Add Mode	Add in Batches	
Floors in Unit	5	
Rooms on Each Floor	4	
First Room No. on 1st Floor	101	
First Room No. on 2nd Floor	201	
	ОК	Cancel

Table 3-13 Add in batches

Parameter	Description
Floors in Unit	The number of floors of the building, which ranges from 1 to 99.
Rooms on Each Floor	The number of rooms on each floor, which ranges from 1 to 99.
First Room No. on 1st Floor	The first room on the first floor.
First Room No. on 2nd Floor	The first room number on the 2nd floor = The first digit of the first room number on the 1st floor plus 1. For example, if the first room number on the first floor is 101, the first room number on the 2nd floor must be 201.

3.7.1.5 Adding the VTS

When the Device functions as the SIP Server, you can add VTSs to the SIP server to make sure they can call each other.

- <u>Step 1</u> On the Homepage, select **Intercom Settings** > **Device Setting**.
- <u>Step 2</u> Click **Add**, and then set parameters.



Step 3 Click OK.

3.7.2 Using VTO as the SIP server

3.7.2.1 Configuring SIP Server

Use another VTO as the SIP server.

Procedure

- <u>Step 1</u> Select Intercom Settings > SIP Server.
- <u>Step 2</u> Select **Device** from the **Server Type**.

 \square

Do not enable **SIP server**.

<u>Step 3</u> Configure the parameters, and then click **OK**.

SIP Server	
Server Type	Device Name \lor
IP Address	110.000 01
Port	5080
Username	8001
Password	•••••
SIP Domain	VDP
SIP Server Username	
SIP Server Password	
Apply Refresh	Default

Figure 3-25 Use VTO as the SIP server

Table 3-15 SIP server configuration

Parameter	Description
IP Address	IP address of the VTO.
Port	5060 by default when VTO works as SIP server.
Username	Leave them as default.
Password	Leave them as default.
SIP Domain	VDP.
SIP Server Username	The login username and password of the SID server
SIP Server Password	The login username and password of the SIP server.
Stop 4 Click Apply	•

Step 4 Click **Apply**.

3.7.2.2 Configuring Local Parameters

Configure the parameters of the Device when you use another VTO as the SIP server.

- <u>Step 1</u> Select Intercom Settings > Local Device Config.
- <u>Step 2</u> Configure the parameters.

Figure 3-26 Configure the parameters

Device Type		Door 9	Station	\vee
No.		8001		
Management	t	88888	8	
Apply	Re	fresh	Default	

Table 3-16 Parameters description

Parameter	Description
Device Type	Select Door Station .
	The number of the VTO.
No.	• The number must have 4 digits. The first 2 digits must be 80, and
	the last 2 digits start from 01. For example, 8001.
	 If multiple VTOs exist in one unit, the VTO No. cannot be repeated.
Management Center	The call number for the management center is 888888. Keep it as default.

Step 3 Click Apply.

3.7.3 Using the Platform as the SIP server

3.7.3.1 Configuring SIP Server

The management platform is used as the SIP server.

- <u>Step 1</u> Select Intercom Settings > SIP Server.
- <u>Step 2</u> Select **Private SIP Server** from the **Server Type**.

Do not enable **SIP Server**.

SIP Server			
Server Type	Private SIP Server \lor		
IP Address	192 111		
Port	5080	Alternate IP	172 . 166
Username	8001	Alternate Server Username	admin
Password	•••••	Alternate Server Password	•••••
SIP Domain	VDP	Alternate VTS IP	0.
SIP Server Username		Alternate Server	
SIP Server Password			
Apply Refresh	Default		

Figure 3-27 Use the management platform as the SIP server

Table 3-17 SIP server configuration

Parameter	Description	
IP Address	IP address of the platform.	
Port	5080 by default when the platform works as SIP server.	
Username	Leave them as default.	
Password	Leave them as default.	
SIP Domain	Leave it as default.	
SIP Server Username	The login upperson and password of the platform	
SIP Server Password	The login username and password of the platform.	
Alternate IP	 The alternate server will be used as the SIP server when the platform does not respond. If you turn on the Alternate Server function, you will set the Device as 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 Server Username	After you set the alternate server, when the management platform does not respond, the alternate server will be activated to make sure VTO	
Alternate Server Password	 and VTH can each other. If Alternate Server is enabled, the Device is set as the alternate 	

Parameter	Description
Alternate Server	 server. If Alternate Server is not enabled, enter the IP of the alternate server, its username and password to set VTO as the alternate server. We recommend you set the main VTO as the alternate server.
Alternate VTS IP	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 each other.

Step 3 Click Apply.

3.7.3.2 Configuring Local Parameters

Configure the parameters of the Device when the platform is used as the SIP server.

Procedure

<u>Step 1</u> Select Intercom Settings > Local Device Config.

<u>Step 2</u> Configure the parameters.

Device Type	Door Station V	
Building No.	001	~
Unit No.	01	~
No.	8001	
Management	888888	
Apply Re	fresh Default	

Figure 3-28 Basic parameter

Table 3-18 Parameters description

Parameter	Description
Device Type	Select fence station or door station based on its installation site.
Building No.	Select the checkbox and then enter the number of the building where the unit door station is installed.
Unit No.	Select the checkbox, and then enter the number of the unit where the unit door station is installed.

Parameter	Description
No.	 The number must have 4 digits. The first 2 digits must be 80, and the last 2 digits start from 01. For example, 8001. If multiple VTOs exist in one unit, the VTO No. cannot be repeated.
Management Center	The default phone number is 888888 when the VTO calls the VTS. Keep it as default.

Step 3 Click Apply.

After settings, the username in **Intercom** > **SIP** page is automatically refreshed. Make sure the username is same to the call number when you add the device to the management platform.

3.7.3.3 Registration Management

When the management platform works as the SIP server, you can view and manage all devices that registered to SIP server.

Procedure

<u>Step 1</u> Select Intercom Settings > Registration Management.

<u>Step 2</u> You can view and edit the devices.

Figure 3-29 View and manage devices

Add Ref	resh					
No.	Client IP	Device Type	Start No. of Analog VTH	End No. of Analog VTH	Long No. of the Device	Operation
5	114/007	in d'aller ils			9901-0	_ ₿
6	10.000	A/a			9901-1	28
7	100.00.00	The of the Collins			9901	_ 8
8	100.000	- Direct 10, 10761 (2)1			8001	28

3.8 Attendance Configuration

This function is only available on select models.

3.8.1 Configuring Departments

Procedure

<u>Step 1</u> Select **Attendance Config > Department Settings**.

There are 20 default departments. We recommend you rename them.

Figure 3-30 Create departments

Default		
ID	Department Name	Operation
1	***	<u>e</u>
2		<u>e</u>
3		2
4	-	2
5		2
6		2
7	-	L
8	-	2
9		2
10	10	2

Related Operations

You can click **Default** to restore departments to default settings.

3.8.2 Configuring Shifts

Configure shifts to define time attendance rules. Employees need to work at the time scheduled for their shift to start, and leave at the end time, except when they choose to work overtime.

Procedure

<u>Step 1</u>	Select Attendance Config > Shift Config.

<u>Step 2</u> Click ∠ to configure the shift.

	Figure 3-31 Create	e shifts	
Edit Shift			×
* Shift No.	1		
* Shift Name			
* Period 1	08:00:00	→ 17:00:00	0
* Period 2	00:00:00	→ 00:00:00	0
* Overtime Period	00:00:00	→ 00:00:00	0
* Limit for Arriving Late	5	min (0-99)	
* Limit for Leaving Early	5	min (0-99)	
		ОК	Cancel

Table 3-19 Shift parameters description

Parameter	Description
Shift Name	Enter the name of the shift.
Period 1	Specify a time range when people can clock in and clock out for the workday.
Period 2	If you only set one attendance period, employees need to clock in and out by the designated times to avoid an anomaly appearing on their attendance record. For example, if you set 08:00 to 17:00, employees must clock in by 08:00 and clock out from 17:00 onwards.
	If you set 2 attendance periods, the 2 periods cannot overlap. Employees need to clock in and clock out for both periods.
Overtime Period	Employees who clock in or out during the defined period will be considered as working beyond their normal work hours.
Limit for Arriving Late (min)	A certain amount of time can be granted to employees to
Limit for Leaving Early (min)	allow them to clock in a bit late and clock out a bit early. For example, if the regular time to clock in is 08:00, the tolerance period can be set as 5 minutes for employees who arrive by 08:05 to not be considered as late.

• When the time interval between 2 periods is an even number, you can divide the time interval by 2, and assign the first half of the interval to the first period, which will be the clock out time. The second half of the interval should be assigned to the second period as the clock in time.

Figure 3-32 Time interval (even number)



For example: If the interval is 120 minutes, then the clock-out time for period 1 is from 12:00 to 12:59, and the clock-in time for period 2 is from 13:00 to 14:00.

 \square

If a person clocks out multiple times during period 1, the latest time will be valid, and if they clock in multiple times during period 2, the earliest time will be valid.

• When the time interval between 2 periods is an odd number, the smallest portion of the interval will be assigned to the first period, which will be the clock out time. The largest portion of the interval will be assigned to the second period as the clock in time.

Figure 3-33 Time interval (even number)



For example: If the interval is 125 minutes, then the clock-out time for period 1 is from 11:55 to 12:57, and the clock-in time for period 2 is from 12:58 to 14:00. Period 1 has 62 minutes, and period 2 has 63 minutes.

\square

If a person clocks out multiple times during period 1, the latest time will be valid, and if they clock in multiple times during period 2, the earliest time will be valid.

\square

All attendance times are precise down to the second. For example, if the normal clock-in time is set to 8:05 AM, the employee who clocks in at 8:05:59 AM will not be considered as arriving late. But, the employee that arrives at 8:06 AM will be marked as late by 1 minute. Click **OK**.

Related Operations

Step 3

You can click **Default** to restore shifts to factory defaults.

3.8.3 Configuring Holiday

Configure holiday plans to set periods for attendance to not be tracked.

Procedure

- <u>Step 1</u> Select Attendance Config > Shift Config > Holiday.
- <u>Step 2</u> Click **Add** to add holiday plans.
- <u>Step 3</u> Configure the parameters.



Add Attendance Holiday				
* Attendence Helideu	4	~		
* Attendance Holiday	1	-		
* Attendance Holiday	Attendance Holida	-		
* Time	2023-10-01	→ 2023-10-	-07	
			ОК	Cancel
			ОК	Cancel

Table 3-20 Parameters description

Parameter	Description		
Attendance Holiday No.	The number of the holiday.		
Attendance Holiday	The name of the holiday.		
Start Time	The start and and time of the boliday		
End Time	The start and end time of the holiday.		
Stop 4 Click OV			

Step 4 Click **OK**.

3.8.4 Configuring Work Schedules

A work schedule generally refers to the days per month and the hours per day that an employee is expected to be at their job. You can create different types of work schedules based on different individuals or departments, and then employees must follow the established work schedules.

Background Information

Refer to the flowchart to configure personal schedules or department schedules.



Figure 3-35 Configuring work schedules

- <u>Step 1</u> Select **Attendance Config > Schedule Config**.
- <u>Step 2</u> Set work schedules for individuals.
 - 1. Click Personal Schedule.
 - 2. Select a person in the person list.
 - 3. On the calendar, select a day, and then select a shift.
 - You can also click Batch Configure to schedule shifts to multiple days.

Person List	2678490-			Select Shift					
1-	Batch Configure			O -Rest			This	Month Next M	onth
2-	Su	Mo	Tu	I-Default		Th	Fr		Sa
678490-	01	02	03	🔿 2-Default		05	06		07
	0	1	1	3-Default	1		1	0	
9958875-				4-Default					
	08	09	10	 S-Default 6-Default 		12	13		14
				7-Default					
	.0.	1	13	8-Default	• ¹		1	0	
	15	16	17	18		19	20		21
	0	1	1	21	1		1	0	
	22	23	24	25		26	27		28
	0	1	10	1	1		15	0	
	29	30	31						
	0	1	1						

Figure 3-36 Personal schedule



You can only set work schedules for the current month and the next month.

- 0 indicates break.
- 1 to 24 indicates the number of the per-defined shifts. For how to configure shifts, see "2.9.2 Configuring Shifts".
- 25 indicates business trip.
- 26 indicates leave of absence.
- <u>Step 3</u> Set works schedules for departments.
 - 1. Click Department Schedule.
 - 2. Select a department in the department list.
 - 3. On the calendar, select a day, and then select a shift.
 - 0 indicates rest.
 - 1 to 24 indicates the number of the per-defined shifts. For how to configure shifts, see "2.9.2 Configuring Shifts".
 - 25 indicates business trip.
 - 26 indicates leave of absence.

Figure 3-37 Schedule shifts to a department

lepartment List	3-Default		Select Shift					
1-Default	1		O-Rest					
2-Default	Sun	Mon	O 1-Default		Thu	Fri	Sat	
-Default	0	2	 2-Default 3-Default 	1	1	1		0
-Default			4-Default					
-Default			S-Default					
-Default			6-Default					
-Default			8-Default	-				
-Default								
Default								
0-Default								
1-Default								
2-Default								
3-Default								
4-Default								
5-Default								
6-Default								
17-Default	-							
18-Default								

The defined work schedule is in a week cycle and will be applied to all employees in the department.

3.8.5 Configuring Attendance Modes

- <u>Step 1</u> Select **Attendance Config > Attendance Config**.
- Step 2Enter the verification interval.When an employee clocks in and out multiple times within a set interval, the earliest time
will be valid.
- <u>Step 3</u> Enable **Local or Remote**, and then set the attendance mode.
- <u>Step 4</u> Configure attendance modes.

Verification Interval	0 s (0-180)
Local or Remote	
Mode Settings	Auto/Manual Mode Auto Mode Manual Mode Fixed Mode
Check In	06:00 09:59 ()
Break Out	10:00 12:59 🕓
Break In	13:00 15:59 🕓
Check Out	16:00 → 20:59 ⁽)
Overtime Check In	00:00 - 00:00 ()
Overtime Check Out	00:00 - 00:00 (5)
Apply Refresh	Default

Figure 3-38 Attendance modes

Table 3-21 Attendance mode

Parameter	Description
	The screen displays the attendance status automatically after you clock in or out, but you can also manually change your attendance status.
	 Check In: Clock in when your normal workday starts.
Auto/Manual Mode	 Break Out: Clock out when your break starts.
	Break In: Clock in when your break ends.
	Check Out: Clock out when your normal workday starts.
	• Overtime Check In: Clock in when your overtime period starts.
	• Overtime Check Out: Clock out when your overtime period ends.
	The screen displays your attendance status automatically after you clock in or out.
	Check In: Clock in when your normal workday starts.
	 Break Out: Clock out when your break starts.
Auto Mode	Break In: Clock in when your break ends.
	Check Out: Clock out when your normal workday starts.
	Overtime Check In: Clock in when your overtime period starts.
	• Overtime Check Out: Clock out when your overtime period ends.
Manual Mode	Manually select your attendance status when you clock in or out.
Fixed Mode	When you clock in or out, the screen will display the per-defined attendance status all the time.

Step 5 Click **Apply**.

Related Operations

- Refresh: If you do not want to the save the current changes, click **Refresh** to cancel changes and restore it to previous settings.
- Default: Restore the attendance settings to factory defaults.

3.9 Configuring Audio and Video

3.9.1 Configuring Video

On the home page, select **Audio and Video Config** > **Video**, and then configure the video parameters.

Background Information

- Channel No.: 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.

3.9.1.1 Configuring Channel 1

- <u>Step 1</u> Select Audio and Video Config > Video.
- <u>Step 2</u> Select **1** from the **Channel No.** list.
- <u>Step 3</u> Configure the bit rate.

Figure	3-39	Date	rate
inguic	5 57	Dute	iuic

Channel No. 1				
	Bit Rate	Main Stream		
	Status	Resolution	720P	\vee
	Exposure	Frame Rate (FPS)	25	\vee
	Image	Bit Rate	2Mbps	\vee
		Compression	H.264	\vee
න්ති විශ්ලි (20)		Sub Stream		
Default Snapshot		Resolution	VGA	\vee
		Frame Rate (FPS)	25	\vee
		Bit Rate	1024Kbps	\vee
		Compression	H.264	\vee

Parameter		Description		
Main Format	Resolution	When the Device 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.		
Main Format	Frame Rate (FPS)	The number of frames (or images) per second.		
	Bit Rate	The amount of data transmitted over an internet connection in a given amount of time. Select a proper bandwidth based on your network speed.		
	Compression	Video compression standard to deliver good video quality at lower bit rates.		
	Resolution	The sub-stream supports D1, VGA and QVGA.		
	Frame Rate (FPS)	The number of frames (or images) per second.		
Sub Stream	Bit Rate	It indicates the amount of data transmitted over an internet connection in a given amount of time.		
	Compression	Video compression standard to deliver good video quality at lower bit rates.		

Table 3-22 Bit rate description

Step 4 Configure the status.

Figure	3-40	Status
inguic	5 10	Status

Channel No.	1 v				
		Bit Rate			
1.1		Status	Scene Mode	Auto	\sim
n/		Exposure	Day/Night	Color	~
		Image	Compensation Mode	WDR	\sim
1 million				0	+ 30
			Video Standard	NTSC	Y
Default	Snapshot	_			

Parameter	Description
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.
Compensation Mode	 Disable: Compensation is turned off. BLC: Backlight compensation automatically brings more light to darker areas of an image when bright light shining from behind obscures it. WDR: The system dims bright areas and compensates for dark areas to create a balance to improve the overall image quality. HLC: 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.

Table 3-23 Parameters description of status

<u>Step 5</u> Configure the exposure parameters.

Bit Rate				
Status	Anti-flicker	Outdoor	\vee	
Exposure	Exposure Mode	Manual	\vee	
Image	Shutter	Custom Range	\vee	
	Shutter Range	0 -	20	(0-40)ms
	Gain	0 -	80	(0-100)
	Exposure Compensation	0	+	50
	3D NR			
	NR Level	0	+	50

Figure 3-41 Exposure

Parameter	Description
Anti-flicker	 Set anti-flicker to reduce flicker and decrease or reduce uneven colors or exposure. 50Hz: When the mains electricity is 50 Hz, the exposure is automatically adjusted based on brightness of the surroundings to prevent the appearance of horizontal lines. 60Hz: When the mains electricity is 60 Hz, the exposure is automatically adjusted based on brightness of the surroundings 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 Device automatically adjusts the brightness of images based the surroundings. Shutter Priority: The Device adjust the image brightness according to the set range of the shutter. If the image is not bright enough but the shutter value has reached its upper or lower limit, the Device will automatically adjust the gain value for ideal brightness level. Manual: You can manually adjust the gain and shutter value 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 models of Device.
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. You can select a shutter range or add a custom range.
Gain	When the gain value range is set, video quality will be improved.
Exposure Compensation	The video will be brighter by adjusting exposure compensation value.
3D NR	When 3D Noise Reduction (RD) is turned on, video noise can be reduced to ensure higher definition of videos.
NR Level	You can set its grade when this function is turned on. Higher grade means clearer image.

Table 3-24 Exposure parameter description

<u>Step 6</u> Configure the image.

	Figure 3-42 Image						
Channel No.	1 ~						
-		Bit Rate					
1.5	-	Status	Brightness	-	-0	+ 50	
10/		Exposure	Contrast	-	-0	+ 50	
	A.S.	Image	Hue	-	-0	+ 50	
1 and	A A A A A A A A A A A A A A A A A A A		Saturation	-	-0	+ 50	
			Mirror				
			Flip				
Default	Snapshot						

Table 3-25 Image description

Parameter	Description
Brightness	The brightness of the image. Higher value means brighter images.
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.
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.

3.9.1.2 Configuring Channel 2

- <u>Step 1</u> Select Audio and Video Config > Video.
- Step 2 Select **2** from the **Channel No.** list.
- <u>Step 3</u> Select 2 from the **Channel No.**.
- <u>Step 4</u> Configure the video status.



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

		rigai	inigure state	22		
Channel No.	2	~				
	NET		Status	Compensation Mode	WDR	~
	Til		Exposure			+ 30
			lmage			
	9.					
Default						

Figure 3-43 Configure status

Table 3-26 Status description		
Parameter	Description	
Compensation Mode	 Disable: Compensation is turned off. BLC: Backlight compensation automatically brings more light to darker areas of an image when bright light shining from behind obscures it. WDR: The system dims bright areas and compensates for dark areas to create a balance to improve the overall image quality. HLC: 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. 	

<u>Step 5</u> Configure the exposure parameters.





Parameter	Description	
	Set anti-flicker to reduce flicker and decrease or reduce uneven colors or exposure.	
Anti-flicker	• 50Hz : When the mains electricity is 50 Hz, the exposure is	
	automatically adjusted based on brightness of the surroundings to	
	prevent the appearance of horizontal lines.	
	• 60Hz : When the mains electricity is 60 Hz, the exposure is	
	automatically adjusted based on brightness of the surroundings to	
	reduce the appearance of horizontal lines.	
	• Outdoor : When Outdoor is selected, the exposure mode can be switched.	
	You can set the exposure to adjust image brightness.	
	• Auto: The Device automatically adjusts the brightness of images	
	based the surroundings.	
	• Shutter Priority: The Device adjust the image brightness according	
	to the set range of the shutter. If the image is not bright enough but	
	the shutter value has reached its upper or lower limit, the Device	
Exposure Mode	will automatically adjust the gain value for ideal brightness level.	
·	• Manual : You can manually adjust the gain and shutter value 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 models of Device. 	
Exposure Compensation	The video will be brighter by adjusting exposure compensation value.	
3D NR	When 3D Noise Reduction (RD) is turned on, video noise can be reduced to ensure higher definition of videos.	
NR Level	You can set its grade when this function is turned on. Higher grade means clearer image.	

Table 3-27 Exposure parameter description

<u>Step 6</u> Configure the image parameters.

Figure 3-45 Image parameters

Channel No.	2 ~ ~				
	ALA	Status			
	TH	Exposure	Brightness	0	+ 50
		Image	Contrast	0	+ 50
Default					

Table 3-28 Image description

Parameter	Description
Brightness	The brightness of the image. Higher value means brighter images.
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.

3.9.2 Configuring Audio Prompts

Set audio prompts during identity verification.

Procedure

- <u>Step 1</u> Select Audio and Video Config > Audio.
- <u>Step 2</u> Configure the audio parameters.

Figure 3-46 Configure audio parameters

Speaker Volume	80	(0-100)	
Microphone Volume	90	(0-100) 🕐	
Audio Collection	Enable	\sim	
Only supports MP3 file	s that are less than 20 KB v	with a sampling rate of 16K.	
Audio File	Audio Type	Audio File	Modify
			£
	Successfully verifi	ied	<u>Ш</u>
	Successfully verifi Failed to verify.		<u>ب</u>

Parameters	Description	
Speaker	Set the volume of the speaker.	
Microphone Volume	Set the volume of the microphone.	
Audio Collection	The audio will not be recorded during video talk when this function is not enabled.	
Audio File	Click Upload audio files to the platform.	

Table 3-29 Parameters description

Step 3 Click 🔬 to upload audio files to platform for each audio type.

ſ			
2	-		

Only supports MP3 files that are less than 20 KB with a sampling rate of 16K.

Step 4 Click Apply.

3.9.3 Configuring Motion Detection

When there are moving objects detected and reaches the set threshold, the screen will be awaken.

Procedure

- <u>Step 1</u> Select **Audio and Video Config > Motion Detection Settings**.
- <u>Step 2</u> Enable the motion detection function.
- <u>Step 3</u> Press and hold the left mouse button, and then draw a detection area in the red area.

 \square

- The motion detection area is displayed in red.
- To remove the existing the motion detection area, click **Clear**.
- The motion detection area you draw will be a non-motion detection area if you draw in the default motion detection area.



Figure 3-47 Motion detection area

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

• Sensitivity: The sensible to the surroundings. Higher sensitivity means easier to trigger alarms.

• Threshold: The percentage of the moving object area in the motion detection area. Higher threshold means easier to trigger alarms.

Step 5 Click Apply.

The motion detection is triggered when the red lines are displayed; the green lines are displayed when it is not triggered.

3.9.4 Configuring Local Coding

Set the view area in the video talk and preview.

Background Information

 \square

- This function is only available on select models.
- This function is enabled by default when it works with a VTH. The preview might be not accessible when this function is disabled.

Procedure

- <u>Step 1</u> Log in to the webpage.
- <u>Step 2</u> Select Audio and Video Config > Local Code.
- <u>Step 3</u> Select **Enable** to turn on the function.
- <u>Step 4</u> Drag the box to a designated position.

The box indicates the preview area during the video talk.



Figure 3-48 Local coding

Step 5 Click **Apply**.

3.10 Communication Settings

3.10.1 Network Settings

3.10.1.1 Configuring TCP/IP

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

- <u>Step 1</u> Select Communication Settings > Network Setting > TCP/IP.
- <u>Step 2</u> Configure the parameters.

Figu	re 3-49 TCP/IP
NIC	NIC 1 V
Mode	OHCP 💿 Static
MAC Address	90 : 02 51 : 9f
IP Version	IPv4 V
IP Address	172 . 103
Subnet Mask	255 . 0
Default Gateway	172 . 1
Preferred DNS	8.8
Alternate DNS	8.4
MTU	1500
Transmission Mode	● Multicast ─ Unicast
Apply Refresh	Default

Table 3-30 Description of TCP/IP

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 Device will automatically be assigned with IP address, subnet mask, and gateway. 	
MAC Address	MAC address of the Device.	
IP Version	IPv4 or IPv6.	
IP Address	If you set the mode to Static , configure the IP address, subnet mask and gateway.	
Subnet Mask		

Parameter	Description
Default Gateway	 IPv6 address is represented in hexadecimal. IPv6 version do not require setting subnet masks. The IP address and default gateway must be in the same network segment.
Preferred DNS	Set IP address of the preferred DNS server.
Alternate DNS	Set IP address of the alternate DNS server.
MTU	MTU (Maximum Transmission Unit) refers to the maximum size of data that can be transmitted in a single network packet in computer networks. A larger MTU value can improve network transmission efficiency by reducing the number of packets and associated network overhead. If a device along the network path is unable to handle packets of a specific size, it can result in packet fragmentation or transmission errors. In Ethernet networks, the common MTU value is 1500 bytes. However, in certain cases such as using PPPoE or VPN, smaller MTU values may be required to accommodate the requirements of specific network protocols or services. The following are recommended MTU values for reference:
	• 1500: Maximum value for Ethernet packets, also the default value. This is a typical setting for network connections without PPPoE and VPN, some routers, network adapters, and
	switches.1492: Optimal value for PPPoE
	 1468: Optimal value for DHCP. 1450: Optimal value for VPN.
Transmission Mode	Multicast: Ideal for video talk.Unicast: Ideal for group call.

Step 3 Click OK.

3.10.1.2 Configuring Wi-Fi

Procedure

- <u>Step 1</u> Select Communication Settings > Network Setting > TCP/IP.
- Step 2 Turn on Wi-Fi.

All available Wi-Fi are displayed.

 \square

- Wi-Fi and Wi-Fi AP cannot be enabled at the same time.
- Wi-Fi function is only available on select models.

<u>Step 3</u> Tap +, and then enter the password of the Wi-Fi.

3.10.1.3 Configuring Port

You can limit access to the Device at the same time through webpage, desktop client and mobile

client.

Procedure

<u>Step 1</u> Select Communication Settings > Network Setting > Port.

<u>Step 2</u> Configure the ports.

Max Connection	1000	(1-1000)
TCP Port	37777	(1025-65534)
HTTP Port	80	
HTTPS Port	443	
RTSP Port	554	
Apply Refresh	Default	
 []]		

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

Table 3-31 Description of ports

Parameter	Description
Max Connection	You can set the maximum number of clients (such as webpage, desktop client and mobile client) that can access the Device at the same time.
TCP Port	Default value is 37777.
HTTP Port	Default value is 80. If you have changed the port number, add the port number after the IP address when access the webpage.
HTTPS Port	Default value is 443.
RTSP Port	Default value is 554.

Step 3 Click Apply.

3.10.1.4 Configuring Basic Service

When you want to connect the Device to a third-party platform, turn on the CGI and ONVIF
functions.

Procedure

Step 1 Select Network Settings > Basic Services	•
---	---

<u>Step 2</u> Configure the basic service.

	Figure 3-51 Basic service
SSH	
Multicast/Broadcast Search	
CGI	
Push Person Info	
ONVIF	
Emergency Maintenance	
• For easy access to our after-sales will automatically enable this fund	service, enable this function. If the device has any trouble performing functions, such as updating, the system tion.
Private Protocol Authentication Mode	Security Mode (Recommended) \vee
Private Protocol	
*Before enabling private protocol TLS	5, make sure that the corresponding device or software supports this function.
TLSv1.1	
Apply Refresh Default	

Parameter	Description
SSH	SSH, or Secure Shell Protocol, is a remote administration protocol that allows users to access, control, and modify their remote servers over the internet.
Mutlicast/Broadcast Search	Search for devices through multicast or broadcast protocol.
CGI	The Common Gateway Interface (CGI) is an intersection between web servers through which the standardized data exchange between external applications and servers is possible.
Push Person Info	When the user information is updated or new users are added, the Device will automatically push user information to the management platform.
ONVIF	ONVIF stands for Open Network Video Interface Forum. Its aim is to provide a standard for the interface between different IP- based security devices. These standardized ONVIF specifications are like a common language that all devices can use to communicate.
Emergency Maintenance	It is turned on by default.

	Table 3-32 Basic s	service paramet	er description
--	--------------------	-----------------	----------------

Parameter	Description
	Set the authentication mode, including safe mode and compatibility mode. It is recommended to choose Security Mode .
Private Protocol Authentication Mode	 Security Mode (recommended): Does not support accessing the device through Digest, DES, and plaintext authentication methods, improving device security. Compatible Mode: Supports accessing the device through Digest, DES, and plaintext authentication methods, with reduced security.
Private Protocol	The platform adds devices through TLSv1.1 protocol.

3.10.1.5 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, configure port mapping or deploy server.

Procedure

<u>Step 1</u> On the home page, select **Communication Settings** > **Network Setting** > **Cloud Service**.

<u>Step 2</u> Turn on the cloud service function.

The cloud service goes online if the P2P and PaaS are online.



<u>Step 4</u> Scan the QR code with DMSS to add the device.

3.10.1.6 Configuring Auto Registration

The active registration enables the devices to be added to the management platform without manual input of device information such as IP address and port.

- <u>Step 1</u> On the home page, select **Network Setting** > **Auto Registration**.
- <u>Step 2</u> Enable the auto registration function and configure the parameters.

Figure 3-5	53 Auto Registration	
Enable		
• Server Address	198.047	
Port	7000	(1-65535)
Registration ID	none	
Apply Refresh	Default	

Table 3-33 Automatic registration description

Parameter	Description
Server Address	The IP address or the domain name of the server.
Port	The port of the server that is used for automatic registration.
Registration ID	The registration ID (user defined) of the device. Adding the device to the management by entering the registration ID on the platform.

3.10.1.7 Configuring CGI Actively Registers

Connect to a third-party platform through CGI protocol.

Background Information

 \square

Only supports IPv4.

- <u>Step 1</u> On the home page, select **Communication Settings** > **Network Settings** > **CGI actively** registers.
- <u>Step 2</u> Enable this function, and then configure the parameters.
- <u>Step 3</u> Click **Add**, and then configure parameters.

Edit		Х
Enable		
LINDIC		
Device ID	none	
Address Type	Host IP V	
Host IP	10 . 10	
Port	60005	
HTTPS		
		OK Cancel

Figure 3-54 CGI active registration

Table 3-34 Automatic registration description

Parameter	Description	
Device ID	Supports up to 32 bytes, including Chinese, numbers, letters, and special characters.	
Address Type	Supports 2 methods to register.	
Host IP	 Host IP: Enter the IP address of the third-party platform. 	
Domain Name	 Domain Name: Enter the domain name of the third-party platform. 	
HTTPS	Access the third-party platform through HTTPS. HTTPS secures communication over a computer network.	

3.10.1.8 Configuring Auto Upload

Send user information and unlock records through to the management platform

- <u>Step 1</u> On the home page, select **Communication Settings** > **Network Settings** > **Auto Upload**.
- <u>Step 2</u> Enable HTTP upload mode.
- <u>Step 3</u> Click **Add**, and then configure parameters.

le 💽									
	No.	IP/Domain Name	Port	HTTPS	Path	Authentication	Event Type	Test	Delet
	1	19	80		1	<u>@</u>	All	Test	8
	2	Example: 172 .108	Example: 80		1	l	None	Test	8

	Table 3-35	Parameters	description
--	------------	------------	-------------

Parameter	Description	
IP/Domain Name	The IP or domain name of the management platform.	
Port	The port of the management platform.	
HTTPS	Access the management platform through HTTPS. HTTPS secures communication over a computer network.	
Authentication	Enable account authentication when you access the management platform. Login username and password are required.	
	Select the type of event that will be pushed to the management platform.	
	• Before you use this function, go to Communication	
Even Type	Settings > Network Settings > Basic Service to	
	enable Push Person Info .	
	 Person information can only be pushed to one 	
	management platform and unlock records can be	
	pushed to multiple management platforms.	

Step 4 Click Apply.

3.10.2 Configuring RS-485

Configure the RS-485 parameters if you connect an external device to the RS-485 port.

- <u>Step 1</u> Select Communication Settings > RS-485 Settings.
- <u>Step 2</u> Configure the parameters.

Figure 3-56 Configure parameters		
External Device	Turnstile	~
Baud Rate	9600	\sim
Data Bit	8	\sim
Stop Bit	1	\sim

Table 3-36 Configure the Wiegand fo	ormat

None

Default

Parity Code

Apply

Refresh

Parameter	Description		
External Device	 Device: Select Device when the Device functions as a card reader, and the Device will send data to the Device to control access. Output Data type: Card Number: 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. Card Reader: The Device connects to a card reader. Reader (OSDP): The Device is connected to a card reader based on OSDP protocol. Door Control Security Module: The door exit button, lock and fire linkage is not effective after the security module is enabled. Turnstile: When the Device connects to a turnstile, and the access controller board of the turnstile connects to an external QR code module or card swiping module, the board will transmit the verification data to the turnstile. 		
Data Bit	The number of bits used to transmit the actual data in a serial communication. It represents the binary digits that carry the information being transmitted.		
Stop Bit	A bit sent after the data and optional parity bits to indicate the end of a data transmission. It allows the receiver to prepare for the next byte of data and provides synchronization in the communication protocol.		

Parameter	Description	
Parity Code	An additional bit sent after the data bits to detect transmission errors. It helps verify the integrity of the transmitted data by ensuring a specific number of logical high or low bits.	

3.10.3 Configuring Wiegand

 \square

Configure the RS-485 parameters if you connect an external device with the RS-485 port.

Procedure

```
<u>Step 1</u> Select Communication Settings > Wiegand.
```

- <u>Step 2</u> Select a Wiegand type, and then configure parameters.
 - Select **Wiegand Input** when you connect an external card reader to the Device.

When the Device connects to a third-party device through the Wiegand input port, and the card number read by the Device is in the reverse order from the actual card number. In this case, you can turn on **Card No. Inversion** function.

• Select **Wiegand Output** when the Device functions as a card reader, and you need to connect it to a controller or another access terminal.

Wiegand Output Output			
Wiegand Output Type Wiegand34 \lor			
Pulse Width (µs) 200		(20-200)	
Pulse Interval (µs)	1000	(200-5000)	
The pulse width is a multiple of 10 and has a multiple relationship with the pulse interval.			
Output Data Type 💿 Card Number 🔿 No.			
Apply Refresh	Default		

Description	
Select a Wiegand format to read card numbers or ID numbers.	
 Wiegand26: Reads 3 bytes or 6 digits. 	
• Wiegand34: Reads 4 bytes or 8 digits.	
• Wiegand66: Reads 8 bytes or 16 digits.	
Enter the pulse width and pulse interval of Wiegand output.	
Select the type of output data.	
• No.: Outputs data based on user ID. The data format is	
hexadecimal or decimal.	
 Card Number: Outputs data based on user's first card number. 	

Table 3-37 Description of Wiegand output

Step 3 Click Apply

3.11 Configuring the System

3.11.1 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.

3.11.1.1 Adding Administrators

You can add new administrator accounts, and then they can log in to the webpage of the Device.

- On the home page, select **System** > **Account**. Step 1
- Click Add, and enter the user information. Step 2



- 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.

	Add		Х
	* Username		
	* Password		
	* Confirm Password		
	 Confirm Password 		
	Remarks		
		OK Cano	el
3	Click OK .		

Figure 3-58 Add administrators

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

3.11.1.2 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

<u>Step 1</u> On the home page, select **System** > **Account** > **ONVIF User**.

<u>Step 2</u> Click **Add**, and then configure parameters.



Figure 3-59 Add ONVIF user



3.11.1.3 Resetting the Password

Reset the password through the linked e-mail when you forget your password.

Procedure

- <u>Step 1</u> Select **System** > **Account**.
- <u>Step 2</u> Enter the email address, and set the password expiration time.
- <u>Step 3</u> Turn on the password reset function.



Fnable		
chable		
If you forgot the password,	ou can receive security codes through the em	nail address left in advance to reset the passwo
Email Address	1***@com	
Password Expires in	Never	∨ Days
\square		

address to reset the password.

Step 4 Click Apply.

3.11.1.4 Viewing Online Users

You can view online users who currently log in to the webpage. On the home page, select System >

Online User.

3.11.2 Configuring Time

Procedure

- <u>Step 1</u> On the home page, select **System** > **Time**.
- <u>Step 2</u> Configure the time of the Platform.

Figure 3-61 Date settings

Time and Time Zone			
Date : 2023-05-30 Tuesday Time : 16:18:35			
Time	Manually Set NTP		
System Time	2023-05-30 16:18:35 📋 Sync PC		
Time Format	YYYY-MM-DD V 24-Hour V		
Time Zone	(UTC+08:00) Beijing, Chongqing, Hong Kong, Urumqi 🗸 🗸		
DST			
Enable			
Туре	● Date ○ Week		
Start Time	01-01 00:00		
End Time	01-02 00:00		
Apply Ret	Apply Refresh Default		

Parameter	Description	
Time	 Manual Set: Manually enter the time or you can click Sync Time to sync time with computer. NTP: The Device will automatically sync the time with the NTP server. Server: Enter the domain of the NTP server. Port: Enter the port of the NTP server. Interval: Enter its time with the synchronization interval. 	
Time format	Select the time format.	
Time Zone	Enter the time zone.	
	1. (Optional) Enable DST.	
DST	2. Select Date or Week from the Type .	
	3. Configure the start time and end time of the DST.	

Table 3-39 Time settings description

3.12 Personalization

Configure themes and add video or image resources to the Device.

3.12.1 Adding Resources

Add images or videos to be displayed on the standby screen of the Device.

Background Information

 \square

This function is only available on select models.

Procedure

<u>Step 1</u> On the home page, select **Personalization** > **Advertisement** > **Ad Resources**.

<u>Step 2</u> Add videos or images.

Figure 3-62 Add videos or images

Video Supports AVI,DAV,MP4. Vide	o size must be less than 100M.	
Upload		
No.	Name	Operation
1	۶ p.dav	靣
Picture		
Supports PNG, JPG, BMP. Ima	ge size must be less than 2M.	
+ Upload		

- Add videos.
 - 1. Click Upload.
 - 2. Click Browse, select the video file, and then click Next.

The video is automatically uploaded to the platform after transcoding.

 \square

- ♦ You can upload up to 5 video files.
- ◇ Supports DAV, AVI, MP4. Video size must be less than 100 M.
- Only supports latest version of FireFox and Chrome to upload video files.
- Add images.
 - 1. Click +.
 - 2. Select image from the local and upload it.



Supports PNG, JPG, BMP. Image size must be less than 2 M.

Related Operations

Click 🔳 to delete uploaded images or videos.

 \square

Videos and images in use cannot be deleted.

3.12.2 Configuring Themes

Background Information

 \square

This function is only available on select models.

Procedure

Step	

<u>1</u> On the home page, select **Personalization** > **Advertisement** > **Subject**.

Step 2 Select the theme.

- General Theme: Displays the face image in full screen.
- Ad Mode 1: The upper area displays the advertisements, and the lower area displays

the time and the face detection box.

• Ad Mode 2: The upper area displays the time and the face detection box, and the lower area displays the advertisements.



Figure 3-63 Theme

<u>Step 3</u> Select the voice prompt for successful identity verification.

<u>Step 4</u> Set advertisement display.

1. Select Ad mode 1 or Ad mode 2, and then select **Advertisement**.

Figure 3-64 Advertisement mode

•	Subject Custom Content	General Mode Ad Mode 1 • Advertisement Greet	Ad Mode 2		
	Play Mode Time Plan	 Original Scale Full Sc Add 	reen		
22:30	No.	Ad Name	Period	Туре	Operation
2021/05/24		No D	ata		
	Apply Refresh				*

- 2. Select the display mode.
 - Original Scale: Plays the image and video in the original size.
 - Full Screen: Plays the image and video in full screen.
- Click Add to add time schedules. You can add up to 10 schedules.
- 4. Enter the name of the advertisement.
- 5. Select the time section, file type and file.
- 6. Enter the duration, and then click **Apply**.

Set the duration for a single picture when pictures are played in a loop. The duration

ranges from 1 s to 20 s and it is 5 s by default.

Figure 3-65 Add time schedules

Add		×
Ad Name	Ad 01	
Period	00:00:00 🕓 - 23:59:59 🕓	
Туре	Picture Video	
Duration	5	sec
Ad Resources		
Apply C	Cancel	

<u>Step 5</u> Configure greetings.

- 1. Select Greetings from the Custom Content.
- 2. Select the template.
- 3. Enter the title and subtitle.

Figure 3-66 Greetings

◆ Welcome Home Good Night	Subject	General Mode Ad Mode 1 Ad Mode 2	
	Custom Content	 Advertisement Greetings 	
	Template	Current Template	•
22.20		Galaxy Mist Dream	
22:30	Content	Please edit your content below.	
	Title	Welcome Home	(12 / 30)
	Subtitle	Cood Night	(10 / 60)
	*	Good Night	(10 / 60)
	Apply Refresh		

4. Click Apply.

3.12.3 Configuring the Shortcuts

- <u>Step 1</u> On the webpage of the Device, select **Personalization** > **Shortcut Settings**.
- <u>Step 2</u> Configure the shortcut parameters.

5	······································	
Password		
QR Code		
Doorbell		
Local Device Ringer		
Ringtone Config	Ringtone 1 V	
Ringtone Time (sec)	3	(1-30)
Call		
Call Type	Call Room \lor	
Apply Refresh	Default	

Table 3-40 1

Parameter	Description
Password	The icon of the password unlock method is displayed on the standby screen.
QR code	The QR code icon is displayed on standby screen. This function is not available for Device with a standalone QR code module.
	After the doorbell function is turned on, doorbell icon is displayed on the standby screen.
	 Local Device Ringer: Tap the ring bell icon on the standby screen, Device will ring.
	 Ringtone Config: Select a ringtone
Doorbell	 Ringtone Time (sec): Set ring time (1-30 seconds). The default value is 3.
	• Alarm: Tap the ring bell icon, and the external alarm device rings.
	This function is only available on select models.
	This function is only available on select models.
Call	The icon of call is displayed on the standby screen.

Parameter	Description
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 pre-defined room number. You can call DMSS only in this call type.

3.13 Management Center

3.13.1 One-click Diagnosis

The system automatically diagnoses the configurations and the status of the device to improve its performance.

Procedure

- <u>Step 1</u> On the home page, select **Maintenance Center** > **One-click Diagnosis**.
- Step 2 Click **Diagnose**.

The system automatically diagnoses the configurations and the status of the device and display diagnosis results after it completes.

<u>Step 3</u> (Optional) Click **Details** to view details of abnormal items.
 You can ignore the abnormality or optimize it. You can also click **Diagnose Again** to perform automatic diagnosis again.

Figure 3-68 One-click diagnosis

6	One-click Diagnosis One-click diagnosis detects the configurations and status of your device to improve its performance. The last scanning time: 2023-10-12 1547-11	Diagnose Again
Network	Condition-3 records	
IP	IP Address Config Normal Checks if the IP address configuration is normal.	
	DHCP Morenal Checks if the DHCP function is normal.	
8	Network Routing Abnormal Checks if the routing configuration is normal.	Details
Working	Condition-1 records	
9	Power Supply Abnormal Checks if the power is being normally supplied.	Details

3.13.2 System Information

3.13.2.1 Viewing Version Information

On the webpage, select **System** > **Version**, and you can view version information of the Device.

3.13.2.2 Viewing Legal Information

On the home page, select **System** > **Legal Info**, and you can view the software license agreement, privacy policy and open source software notice.

3.13.3 Data Capacity

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

3.13.4 Viewing Logs

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

3.13.4.1 System Logs

View and search for system logs.

Procedure

- <u>Step 1</u> Log in to the webpage.
- <u>Step 2</u> Select Log > Log.
- <u>Step 3</u> Select the time range and the log type, and then click **Search**.

Related Operations

- click **Export** to export the searched logs to your local computer.
- Click **Encrypt Log Backup**, and then enter a password. The exported file can be opened only after entering the password.
- Click 💷 to view details of a log.

3.13.4.2 Unlock Records

Search for unlock records and export them.

- <u>Step 1</u> Log in to the webpage.
- <u>Step 2</u> Select Log > Unlock Records.
- Step 3Select the time range and the type, and then click Search.You can click Export to download the log.

3.13.4.3 Call History

View call logs.

Procedure

- <u>Step 1</u> Log in to the webpage.
- <u>Step 2</u> Select Log > Call History.

3.13.4.4 Alarm Logs

View alarm logs.

Procedure

- <u>Step 1</u> Log in to the webpage.
- <u>Step 2</u> Select Log > Alarm Log.
- <u>Step 3</u> Select the type and the time range.
- <u>Step 4</u> Enter the admin ID, and then click **Search**.

3.13.4.5 Admin Logs

Search for admin logs by using admin ID.

Procedure

- <u>Step 1</u> Log in to the webpage.
- <u>Step 2</u> Select Log > Admin Log.
- <u>Step 3</u> Enter the admin ID, and then click **Search**. Click **Export** to export admin logs.

3.13.4.6 USB Management

Export user information from/to USB.

Procedure

- <u>Step 1</u> Log in to the webpage.
- <u>Step 2</u> Select Maintenance Center > Log > USB Management.

 \square

- Make sure that a USB is inserted to the Device before you export data or update the system. To avoid failure, do not pull out the USB or perform any operation of the Device during the process.
- You have to use a USB to export the information from an Device to other devices. Face images are not allowed to be imported through USB.
- <u>Step 3</u> Select a data type, and then click **USB Import** or **USB Export** to import or export the data.

3.13.5 Configuration Management

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

3.13.5.1 Exporting and Importing Configuration Files

You can import and export the configuration file for the Device. When you want to apply the same configurations to multiple devices, you can import the configuration file to them.

Procedure

<u>Step 1</u> Log in to the webpage.

<u>Step 2</u> Select System > Config.

Figure 3-69 Configuration management

Config	
Export Configuration	on File
File	Browse Import File
Imported configure	guration will overwrite previous configuration.

<u>Step 3</u> Export or import configuration files.

• Export the configuration file.

Click **Export Configuration File** to download the file to the local computer.



The IP will not be exported.

- Import the configuration file.
 - 1. Click **Browse** to select the configuration file.
 - 2. Click Import configuration.



Configuration files can only be imported to devices that have the same model.

3.13.5.2 Restoring the Factory Default Settings

Procedure

<u>Step 1</u> Select **System** > **Config**.



Restoring the **Device** to its default configurations will result in data loss. Please be advised. <u>Step 2</u> Restore to the factory default settings if necessary.

- Factory Defaults: Resets all the configurations of the Device and delete all the data.
- **Restore to Default (Except for User Info and Logs)**: Resets the configurations of the Device and deletes all the data except for user information and logs.

\square

Only the main controller supports Restore to Default (Except for User Info and Logs).

3.13.6 Maintenance

Regularly restart the Device during its idle time to improve its performance.

Procedure

- <u>Step 1</u> Log in to the webpage.
- <u>Step 2</u> Select **System** > **Maintenance**.
- <u>Step 3</u> Set the time, and then click **Apply**.

The Device will restart at the scheduled time, or you can click **Restart** to restart it immediately.

3.13.7 Updating the System



- Use the correct update file. Make sure that you get the correct update file from technical support.
- Do not disconnect the power supply or network, and do not restart or shutdown the Device during the update.

3.13.7.1 File Update

Procedure

- <u>Step 1</u> On the home page, select **System** > **Update**.
- <u>Step 2</u> In **File Update**, click **Browse**, and then upload the update file.

 \square

The update file should be a .bin file.

Step 3Click Update.The Device will restart after the update finishes.

3.13.7.2 Online Update

- <u>Step 1</u> On the home page, select **System** > **Update**.
- <u>Step 2</u> In the **Online Update** area, select an update method.
 - Select **Auto Check for Updates**, and the Device will automatically check for the latest version update.
 - Select **Manual Check**, and you can immediately check whether the latest version is available.
- <u>Step 3</u> (Optional) Click **Update Now** to update the Device immediately.

3.13.8 Advanced Maintenance

Acquire device information and capture packet to make easier for maintenance personnel to perform troubleshooting.

3.13.8.1 Exporting

Procedure

- <u>Step 1</u> On the home page, select **Maintenance Center** > **Advanced Maintenance** > **Export**.
- <u>Step 2</u> Click **Export** to export the serial number, firmware version, device operation logs and configuration information.

3.13.8.2 Packet Capture

Procedure

<u>Step 1</u> On the home page, select **Maintenance Center** > **Advanced Maintenance** > **Packet Capture**.

Figure 3-70 Packet Capture

Packet	Capture						
NIC	Device Address	IP 1: Port 1		IP 2: Port 2		Packet Sniffer Size	Packet Sniffer Backup
eth0	1 166	Optional	(Optional	Optional	C Optional	0.00MB	۲
eth2	1 101	Optional	1 Optional	Optional	* Optional	0.00MB	

<u>Step 2</u> Enter the IP address, click **•**.

changes to III.

<u>Step 3</u> After you acquired enough data, click III.

Captured packets are automatically downloaded to your local computer.

3.14 Security Settings(Optional)

3.14.1 Security Status

Scan the users, service, and security modules to check the security status of the Device.

Background Information

- User and service detection: Check whether the current configuration conforms to recommendation.
- Security modules scanning: Scan the running status of security modules, such as audio and video transmission, trusted protection, securing warning and attack defense, not detect whether they are enabled.

Procedure

<u>Step 1</u> Select **Security Status**.

<u>Step 2</u> Click **Rescan** to perform a security scan of the Device.

 \square

Hover over the icons of the security modules to see their running status.

Figure 3-71 Security Status

Security Statu Security scanning can The fast scanning time	help you get a whole picture o	f device security status in real fir	ne and use the device in a much saf	er way.			Rescan
User & Service Detection (I	Detects whether the current co	nfiguration conforms to the reco	mmendation.)				
Login Authentication	User Status Details	Configuration Security Details					
Security modules Scanning	(Scan the running status of sec	urity modules except whether th	ey are enabled.)				
		U	0	802.1X	0		
Audio/Video Transmission Encryption	Trusted Protection	Attack Defense	Firmware Encryption	802.1x	Configuration Files Security	CA Certificate	Log Security
Session Security	Physical Backup						

Related Operations

After you perform the scan, the results will be displayed in different colors. Yellow indicates that the security modules are abnormal, and green indicates that the security modules are normal.

- Click **Details** to view the details on the results of the scan.
- Click **Ignore** to ignore the abnormality, and it will not be scanned. The abnormality that was ignored will be highlighted in grey.
- Click **Optimize** to troubleshoot the abnormality.

3.14.2 Configuring HTTPS

Create a certificate or upload an authenticated certificate, and then you can log in to the webpage through HTTPS on your computer. HTTPS secures communication over a computer network.

Procedure

- <u>Step 1</u> Select **System Service** > **HTTPS**.
- <u>Step 2</u> Turn on the HTTPS service.

\wedge

If you turn on the compatible with TLS v1.1 and earlier versions, security risks might occur. Please be advised.

Step 3 Select the certificate.

 \square

If there are no certificates in the list, click **Certificate Management** to upload a certificate.

```
Figure 3-72 HTTPS
```

able							
HTTPS is a	a servic	ce entry based on Trans	port Layer Security (TLS). HTTPS provides web service, ONVIF access service	and RTSP access service.			
		county control on many	and the second from the second second second second	100 COL 100 COL 100 COL			
elect a dev	evice ce	rtificate					Certificate Mana
elect a dev		rtificate Custom Name	Certificate Serial Number	Validity Period	User	Issued by	Certificate Mana

Step 4 Click Apply.

Enter"https://IP address: httpsport" in a web browser. If the certificate is installed, you can log in to the webpage successfully. If not, the webpage will display the certificate as wrong or untrusted.

3.14.3 Attack Defense

3.14.3.1 Configuring Firewall

Configure firewall to limit access to the Device.

Procedure

<u>Step 1</u> Select **Select Select Sele**

<u>Step 2</u> Click **(D)** to enable the firewall function.

Firewall Account Lockout	Anti-DoS Attack		
Enable			
Mode Allowlist 	O Blocklist		
Only source hosts who	se IP/MAC are in the following list are allowed to	access corresponding ports of the device.	
Add Delete			
No.	Host IP/MAC	Port	Operati
1	15 .0.6	All Device Ports	<u>/</u>
Total 1 records			
Apply Refresh	Default		

<u>Step 3</u> Select the mode: **Allowlist** and **Blocklist**.

- Allowlist: Only IP/MAC addresses on the allowlist can access the Device.
- Blocklist: The IP/MAC addresses on the blocklist cannot access the Device.

<u>Step 4</u> Click **Add** to enter the IP information.

Fig	ure 3-74 Add IP inform	nation
Add		×
Add Mode	IP	\vee
IP Version	IPv4	\vee
IP Address		
All Device Port	5	
		OK Cancel

Step 5 Click OK.

Related Operations

- Click 🖻 to edit the IP information.
- Click 💼 to delete the IP address.

3.14.3.2 Configuring Account Lockout

If the incorrect password is entered for a defined number of times, the account will be locked.

Procedure

<u>Step 1</u> Select **Select** Selec

<u>Step 2</u> Enter the number of login attempts and the time the administrator account and ONVIF user will be locked for.

Firewall	Account Locko	ut Anti-DoS Attack	
Device	Account		
Login A	Attempt	5time(s) \lor	
Lock Ti	me	5	min
Арр	ly Refresh	Default	

Figure 3-75 Account lockout

- Login Attempt: The limit of login attempts. If the incorrect password is entered for a defined number of times, the account will be locked.
- Lock Time: The duration during which you cannot log in after the account is locked.
- Step 3 Click Apply.

3.14.3.3 Configuring Anti-DoS Attack

You can enable **SYN Flood Attack Defense** and **ICMP Flood Attack Defense** to defend the Device against Dos attacks.

- <u>Step 1</u> Select **Select** Select **Select** Select Sel
- <u>Step 2</u> Turn on **SYN Flood Attack Defense** or **ICMP Flood Attack Defense** to protect the Device against Dos attack.



Figure 3-76 Anti-DoS attack

3.14.4 Installing Device Certificate

Create a certificate or upload an authenticated certificate, and then you can log in through HTTPS on your computer.

3.14.4.1 Creating Certificate

Create a certificate for the Device.

Procedure

- <u>Step 1</u> Select **Select** Select **Select** Select **Select** Select **Select** Select Select
- <u>Step 2</u> Select Install Device Certificate.
- <u>Step 3</u> Select Create Certificate, and click Next.
- <u>Step 4</u> Enter the certificate information.

Step 2: Fill in certificate information.		
Custom Name		
* IP/Domain Name	103	
Organization Unit		
Organization		
* Validity Period	Days (1~5000)	
* Region		
Province		
City Name		
	Back Create and install certificate	Cancel

\square

The name of region cannot exceed 2 characters. We recommend entering the abbreviation of the name of the region.

Step 5 Click Create and install certificate.

The newly installed certificate is displayed on the **Device Certificate** page after the certificate is successfully installed.

Related Operations

- Click Enter Edit Mode on the Device Certificate page to edit the name of the certificate.
- Click 🛓 to download the certificate.
- Click 💼 to delete the certificate.

3.14.4.2 Applying for and Importing CA Certificate

Import the third-party CA certificate to the Device.

Procedure

- <u>Step 1</u> Select **Select** Select **Select** Select Sel
- Step 2 Click Install Device Certificate.
- <u>Step 3</u> Select **Apply for CA Certificate and Import (Recommended)**, and click **Next**.
- <u>Step 4</u> Enter the certificate information.
 - IP/Domain name: the IP address or domain name of the Device.
 - Region: The name of region must not exceed 3 characters. We recommend you enter the abbreviation of region name.

Step 2: Fill in certific	cate information.	Х
* IP/Domain Name	172 03	
Organization Unit		
Organization		
* Region		
Province		
City Name		
	Back Create and Download C	ancel

Figure 3-78 Certificate information (2)

Step 5 Click Create and Download.

Save the request file to your computer.

- <u>Step 6</u> Apply to a third-party CA authority for the certificate by using the request file.
- <u>Step 7</u> Import the signed CA certificate.
 - 1) Save the CA certificate to your computer.
 - 2) Click Installing Device Certificate.
 - 3) Click **Browse** to select the CA certificate.
 - 4) Click Import and Install.

The newly installed certificate is displayed on the **Device Certificate** page after the

certificate is successfully installed.

- Click **Recreate** to create the request file again.
- Click **Import Later** to import the certificate at another time.

Related Operations

- Click Enter Edit Mode on the Device Certificate page to edit the name of the certificate.
- Click 🛓 to download the certificate.
- Click 🔳 to delete the certificate.

3.14.4.3 Installing Existing Certificate

If you already have a certificate and private key file, import the certificate and private key file.

Procedure

- <u>Step 1</u> Select Security > CA Certificate > Device Certificate.
- <u>Step 2</u> Click Install Device Certificate.
- <u>Step 3</u> Select Install Existing Certificate, and click Next.
- <u>Step 4</u> Click **Browse** to select the certificate and private key file, and enter the private key password.

Step 2: Select certifica	te and private	key.	Х
Custom Name			
Certificate Path		В	rowse
Private Key		В	rowse
Private Key Password			
	Back	Import and Install	Cancel

Figure 3-79 Certificate and private key

Step 5 Click Import and Install.

The newly installed certificate is displayed on the **Device Certificate** page after the certificate is successfully installed.

Related Operations

- Click Enter Edit Mode on the Device Certificate page to edit the name of the certificate.
- Click 🛓 to download the certificate.
- Click 💼 to delete the certificate.

3.14.5 Installing the Trusted CA Certificate

A trusted CA certificate is a digital certificate that is used for validating the identities of websites and

servers. For example, when 802.1x protocol is used, the CA certificate for switches is required to authenticate its identity.

Background Information

802.1X is a network authentication protocol that opens ports for network access when an organization authenticates a user's identity and authorizes them access to the network.

Procedure

- <u>Step 1</u> Select **Select** Select **Select** Select Sel
- <u>Step 2</u> Select Install Trusted Certificate.
- <u>Step 3</u> Click **Browse** to select the trusted certificate.

Figure 3-80 Install the trusted certificate

Install Trusted Ce	rtificate	Х
Custom Name Certificate Path	Browse	
		OK Cancel

Step 4 Click OK.

The newly installed certificate is displayed on the **Trusted CA Certificates** page after the certificate is successfully installed.

Related Operations

- Click Enter Edit Mode on the Device Certificate page to edit the name of the certificate.
- Click 🛓 to download the certificate.
- Click 💼 to delete the certificate.

3.14.6 Data Encryption

- <u>Step 1</u> Select **a** > **Data Encryption**.
- <u>Step 2</u> Configure the parameters.

protocol.				
or software supports video decryption.				
ire transmission.				
or software supports video decryption.				
				Certificate Manageme
te Serial Number	Validity Period	User	issued by	Used by
343436383232	2053-05-30 11:40:22	8C04F30YAJ6759	BSC	HTTPS, RTSP over TLS
fo	e protocol. ar software supports video decryption. bree transmission. or software supports video decryption. ate Serial Number 3. 343436383232	ar software supports video decryption.	ar software supports video decryption.	ar software supports video decryption.

Table 3-41 Data encryption description

	Parameter	Description
	Enable	Streams are encrypted during transmission through private protocol.
Private Protocol	Encryption Type	Keep it as default.
	Update Period of Secret Key	Ranges from 0 h -720 h. 0 means never update the secret key.
	Enable	RTSP stream is encrypted during transmission through TLS tunnel.
RTSP over TLS	Certificate Management	Create or import certificate. For details, see"3.14.4 Installing Device Certificate". The installed certificates are displayed in the list.

3.14.7 Security Warning

- Step 1 Select **Security Warning**.
- <u>Step 2</u> Enable the security warning function.
- <u>Step 3</u> Select the monitoring items.

Figure	3-82	Security	warning
--------	------	----------	---------

Enable								
Event Monitoring								
~	Invalid executable programs attempting to run Session ID bruteforcing							
~	Web directory bruteforcing Login not in the specified time range.							
	Number of session connections exceeds limit	Brute force attack of the account.						
Security warning can detect device security status in real time, and keep you informed of the security exception events immediately, so that you can deal with them timely and avoid security risks.								
Apply	Refresh Default							

3.14.8 Security Authentication

- <u>Step 1</u> Select Security > Security Authentication.
- <u>Step 2</u> Select a message digest algorithm.
- Step 3 Click Apply.



Digest Algorithm for Authentication				
Digest Algorithm for User Authentication	✓ MD5 SHA256			
Digest Algorithm for ONVIF User Authentication	MD5 SHA256			
Apply Refresh Default				

4 Smart PSS Lite Configuration

This section introduces how to manage and configure the Device through Smart PSS Lite. For details, see the user's manual of Smart PSS Lite.

4.1 Installing and Logging In

Install and log in to Smart PSS Lite. For details, see the user manual of Smart PSS Lite.

Procedure

- <u>Step 1</u> Get the software package of the Smart PSS Lite from the technical support, and then install and run the software according to instructions.
- <u>Step 2</u> Initialize Smart PSS Lite when you log in for the first time, including setting password and security questions.

 \square

Set the password is for the first-time use, and then set security questions to reset your password when you forgot it.

<u>Step 3</u> Enter your username and password to log in to Smart PSS Lite.

4.2 Adding Devices

You need to add the Device to Smart PSS Lite. You can add them in batches or individually.

4.2.1 Adding Device One By One

You can add Device one by one through entering their IP addresses or domain names.

Procedure

<u>Step 2</u> Configure the information of the device.

Figure 4-1 Add devices

Add Device				×
Device Name:	1	Method to add	d:	•
IP/Domain:	[Port:		
*		* 37777		
User Name: *		Password:		
	Add and Cor	ntinue	Add	Cancel

Table 4-1 Parameters of IP adding

Parameter	Description			
Device Name	We recommend you name devices with the monitoring area for easy identification.			
	Select IP/Domain.			
Method to add	IP/Domain: Enter the IP address or domain name of the device.			
	SN: Enter the serial number of the device.			
Port	Enter the port number, and the port number is 37777 by default. The actual port number might differ according to different models.			
User Name	Enter the username of the device.			
Password	Enter the password of the device.			

Step 3 Click Add.

You can click Add and Continue to add more devices.

4.2.2 Adding Devices in Batches

Background Information

 \square

- We recommend you add devices by automatically search when you need to add devices in batches within the same network segment, or when the network segment is known but the exact IP addresses of devices are not known.
- Close ConfigTool and DSS when you configure devices; otherwise, you may not be able to find all devices.

- <u>Step 1</u> On the **Device Manager** page, click **Auto Search**.
- <u>Step 2</u> Select a search method.
- Auto Search: Enter the username and the password of the device. The system will automatically search for devices that are on the same network to your computer.
- Device Segment Search: Enter the username and the password of the device, and then define the start IP and the end IP. The system will automatically search for devices in this IP range.
- \square

You can select both methods for the system to automatically search for devices on the network your computer is connected to and other networks.

🕑 Modify I	IP 📀 Init	tializatio	n				Search De	vice Number: 59
No.	IP		Device T	ype	MAC Ad	dress	Port	nitialization Statu
1	10	5		-2	3c:e3:	:d3	37777	 Initialized
2	10.8	5			e4:24	:41	37777	 Initialized
3	10.8	0		-Z	3c:e3	:df	37777	Initialized
4	10.	3		E-0	fc:b6:	:60	37777	Initialized
5	10.	4			f4:b1:	:24	37777	Initialized
6	10.	6			3c:e3:	:38	37777	 Initialized
7	10.8	8		-V	c0:39:	:61	37777	Initialized
8	10.	1			c0:39.5	/:fc	37777	 Initialized

Figure 4-2 Search for devices

<u>Step 4</u> Enter the login user name and password, and then click **OK**.

Result

After the devices are successfully added, they are displayed on this page.

Figure 4-3 Added devices

Q Auto Sea	arch + Add	🗊 Delete	👌 Import	ŷ Export		S	earch	Q All Devices: 5	Online Devices: 2
All Device									
No.	Name 🔺	IP	Device Type	Device Model	Port	Channel Numbe	Online Status	SN	Operation
1	1 73	3	N/A	N/A	37777	0/0/0/0	Offline (Ca	N/A	D 🔅 († Ū
2	10 07	1)7	VTO		37777	2/0/10/2	 Online 	8D0 2C74	\$\$\$\$\$\$\$\$
3	10 08	1)8	Apartment VTO	-S2	37777	1/0/5/1	Offline	9B0 CEB	Ø\$\$ [~ Û
4	10 11	1 1	VTS	100000	37777	0/0/10/2	Offline	8D0. E1D	Ø\$\$ [\$~₩
5	10.0	10 15	IPC	DHINR	37777	1/0/2/1	Online	8M0 7FAB	∥ቑ⊲₫

4.3 User Management

Add users, assign cards to them, and configure their access permissions.

4.3.1 Configuring Card Type

Set the card type before you assign cards to users. For example, if the assigned card is an ID card, set card type to ID card.

Procedure

- Step 1 Log in to Smart PSS Lite.
- <u>Step 2</u> Click Access Solution > Personnel Manager > User.
- <u>Step 3</u> On the **Card Issuing Type** and then select a card type.

 \square

Make sure that the card type is same to the actually assigned card; otherwise, the card number cannot be read.

Step 4 Click **OK**.

4.3.2 Adding Users

4.3.2.1 Adding Users One by One

Procedure

- <u>Step 1</u> Select **Personnel** > **Personnel Manager** > **Add**.
- <u>Step 2</u> Enter basic information of staff.
 - 1) Select Basic Info.
 - 2) Add basic information of staff.
 - 3) Take snapshot or upload picture, and then click Finish.

- The card number can be read automatically or filled in manually. To automatically read card number, select the card reader next to **Card No.**, and then place the card on the card reader. The card number will be read automatically.
- You can select multiple USB cameras to snap pictures.
- Set password

Click **Add** to add the password. For second-generation access controllers, set person passwords; for other devices, set card passwords. New passwords must consist of 6-8 digits.

- Configure card
 - a. Click 💁 to select **Device** or **Card issuer** as card reader.
 - b. Add card. The card number must be added if the non-second generation access controller is used.
 - c. After adding, you can select the card as main card or duress card, or replace the card with a new one, or delete the card.
 - d. Click 👪 to display the QR code of the card.

 \square

Only 8-digit card number in hexadecimal mode can display the QR code of the card.

- Configure fingerprint
 - a. Click 💁 to select **Device** or **Fingerprint Scanner** as the fingerprint collector.
 - b. Add fingerprint. Select **Add** > **Add Fingerprint**, and then press finger on the scanner for three times continuously.

Figure 4-	4 Add	basic	inforn	nation
inguic i	17,000	Dusic	mom	lation

Basic Info	Extended information	Permission	
User ID:	*		
Name:	*		
Department:	Default Company	•	
User Type:	General User	•	
Validity Time:	2022/11/29 0:00:00		Take Snapshot
	2032/11/29 23:59:59	3654 Days	Upload Picture Image Size: 0–100 KB
Times Used:	Unlimited		
		ke Snapshot bload Picture	
Uplo Image S Password	ad Picture Up ize: 0–100 KB Image Add ① For the 2nd-generation a otherwise it is the card p The card number must be ad	oload Picture e Size: 0–100 KB access controller, it assword.	neration access controller
Uplo Image S	ad Picture Up ize: 0–100 KB Image Add For the 2nd-generation a otherwise it is the card p Image: The card number must be ad is used.	oload Picture e Size: 0–100 KB access controller, it assword.	
Uplo Image S Password (Card Add	ad Picture Up ize: 0–100 KB Image Add For the 2nd-generation a otherwise it is the card p Image: The card number must be ad is used.	oload Picture e Size: 0–100 KB access controller, it assword.	neration access controller
Uplo Image S Password () Card Add Fingerprint	ad Picture Up ize: 0–100 KB Image Add I For the 2nd-generation a otherwise it is the card p The card number must be ad is used.	oload Picture e Size: 0–100 KB access controller, it assword.	neration access controller

<u>Step 3</u> Click **Extended information** to add extended information of the personnel, and then click **Finish** to save.

Details Gender: Male Female ID Type: ID Title: Mr ID No.: Date of Birth: 1985/3/15 Company: Tel: Coccupation: Email: Email: Employment Date: 2022/11/2	The second seco
Title: Mr ID No.: Date of Birth: 1985/3/15 Tel: Occupation:	
Title: Mr ID No.: Date of Birth: 1985/3/15 Tel: Occupation:	
Date of Birth: 1985/3/15 Tel: Occupation:	
Tel: Occupation:	
Email: Employment Date: 2022/11/2	
	28 19:38:45
Mailing Address: Termination Date: 2032/11/2	29 19:38:45 📰
Administrator:	
Remark:	

Figure 4-5 Add extended information

- <u>Step 4</u> Configure permissions.
 - 1) Click + .
 - 2) Enter the group name, remarks (optional), and select a time template.
 - 3) Select verification methods and doors.
- <u>Step 5</u> Configure permissions. For details, see "4.3.3 Assigning Access Permission".
 - 1. Select Group.
 - 2. Enter the group name, remarks (optional), and select a time template.
 - 3. Select verification methods and doors.
 - 4. Click **OK**.

Add Permission Group	
Basic Info	
Group Name	Remark:
Permission Group4	
Time Templ Full-day Time Te▼	
Verification Method: 🗹 Card 🗹	Fingerprint 🗹 Password 🗹 Face
All Device	Selected (1)
Search	Q 172 40-Door 1
🔻 🗹 🚠 Default Group	
🔻 🗹 🖪 17	
🗹 🔳 Door 1	
	OK Cance
<u>6</u> Click Finish .	

After completing adding, you can click \swarrow to modify information or add details in the list of staff.

4.3.2.2 Adding Users in Batches

Procedure

<u>Step 1</u> Click **Personnel Manger** > **Batch Update** > **Batch Add**.

<u>Step 2</u> Select **Card issuer** or **Device** from the **Device** list, and then configure the parameters.

Batch Add			×
Device Card Issuer	•		Read C
Start No.: * 3789		Quantity: * 20	
Department: Default Con	npany 🔻		
Validity Period	d:	Expiration Time:	
2023/9/25 0	:00:00	2029/9/25 23:59:59	
Issue Card		Card No.	
3789		card no.	_
3790			
3791			
3792			
3793			
3794			
3795			
3796			
3797			
3798			
3799			
		ОК	Cancel

Table 4-2 Add users in batches parameters

Parameter	Description
Start No.	The user ID starts with the number you defined.
Quantity	The number of users you want to add.
Department	Select the department that the user belongs to.
Effective Time/Expired Time	The users can unlock the door within the defined period.

<u>Step 3</u> Click **Read Card No.**, and swipe cards on the card reader.

The card number will be read automatically.

Step 4 Click OK.

4.3.3 Assigning Access Permission

Create a permission group that is a collection of door access permissions, and then link users with the group so that users can unlock doors associated with the permission group.

Procedure

- <u>Step 1</u> Click Access Solution > Personnel Manger > Permission.
- Step 2 Click + .
- <u>Step 3</u> Enter the group name, remarks (optional), and select a time template.
- <u>Step 4</u> Select verification methods and doors.
- Step 5 Click OK.



Figure 4-8 Create a permission group

Step 6 Click 🛃 of the permission group.

<u>Step 7</u> Select users to associate them with the permission group.

+	1	Search Q	Related Information @	Add Person		×
	Permission Group	Opera	Permission Group Details			
	Permission Group1		Name: Permission Group1 Permission Group(1)	Permission Group1		
	Permission Group2	アム言	172 .140			
	Permission Group3	× 4 i		User List	Selected (2)	i
				Search 2 Q	ID	Name
				🔻 🗹 🚠 Default Company(2)	42566767	Tom
				🗹 🚨 Mary	584u59345	Mary
				🗹 🚨 Tom		
						3
						OK Cancel

Figure 4-9 Add users to a permission group

Step 8 Click OK.

Users can unlock the door in this permission group after valid identity verification.

4.3.4 Assigning Attendance Permissions

Create a permission group that is a collection of time attendance permissions, and then associate employees with the group so that they can punch in/out through defined verification methods.

Procedure

- <u>Step 1</u> Log in to the Smart PSS Lite.
- <u>Step 2</u> Click Access Solution > Personnel Manger > Permission configuration.
- Step 3 Click + .
- <u>Step 4</u> Enter the group name, remarks (optional), and select a time template.
- <u>Step 5</u> Select the access control device.
- Step 6 Click OK.

Figure 4-10 Create a permission group

Add Access Group	×
Basic Info	
Group Name: Rei	mark:
Permission Group3	1
Time Template: All Day Time Template	2
All Device	Selected (0)
SearchQ	
💌 🗌 🚠 Default Group	
▼ □ ■ 12 ■ 13 ■	
Door 1	
	3
	OK Cancel

The Time & Attendance only supports punch-in/out through password and face attendance.

<u>Step 7</u> Click 🛃 of the permission group you added.

<u>Step 8</u> Select users to associate them with the permission group.

Add Person			>
Permission Group2			
Person list	-	Selected (1)	•
Search	Q	ID	VT Name
▼ 🔳 👫 Company(10)		10	10
DepartmentA(6))		
🔻 🗹 🚠 DepartmentB(3))		
- ····································			

Figure 4-11 Add users to a permission group



4.4 Access Management

4.4.1 Remotely Opening and Closing Door

You can remotely monitor and control door through the platform. For example, you can remotely open or close the door.

Procedure

```
<u>Step 1</u> Click Access Solution > Access Manager on the home page.
```

<u>Step 2</u> Remotely control the door.

• Select the door, right click and select **Open** or **Close** to open or close the door.

Figure 4-12 Open door

•	Organizations	Always Close	Always Open	ONormal	Access point settings
	Search Q ▼ ■ Default Group ▼ ■ Default Group ▼ ■ Door 1 ○ 10 3.6 Closs Closs	Door 1			CACCESS point settings
	Q 1 3.5 Renz	ame			

- Den or close the door.
- 🔤: View the live video of the door.

Related Operations

• Event filtering: Select the event type in the **Event Info**, and the event list displays the selected

event type, such as alarm events and abnormal events.

- Event refresh locking: Click 🗇 to lock the event list, and then event list will stop refreshing. Click 🗁 to unlock.
- Event deleting: Click 🔟 to clear all events in the event list.

4.4.2 Setting Always Open and Always Close

After setting always open or always close, the door remains open or closed all the time.

Procedure

- <u>Step 1</u> Click **Access Solution** > **Access Manager** on the Home page.
- <u>Step 2</u> Click **Always Open** or **Always Close** to open or close the door.

Organizations	Always	O Normal
Search Q	Door 1	

Figure 4-13 Always open or close

The door will remain open or closed all the time. You can click **Normal** to restore the access control to normal status, and then the door will be open or closed based on the configured verification methods.

4.4.3 Monitoring Door Status

Procedure

<u>Step 1</u> Click **Access Solution** > **Access Manager** on the home page.

<u>Step 2</u> Select the Device in the device tree, and right click the Device and then select **Start Realtime Event Monitoring**.

Real-time access control events will display in the event list.

Click **Stop Monitor**, real-time access control events will not display.

Organizations	 Always Close 	Always Open	C Normal	
Show All Doo Reboot	Door 1			
Details			× 3	
Details	Event Info	All 💌 Alarm	Abnormal 🖉 Normal Event History Event Configuratio	m 10
Details	Event Info	All 🗷 Alarm Event	Abnormal X Normal Event History Event Configuratio Description	
Details			Abnormal X Normal Event History Event Configuratio Description Door is locked	10.24.243.125
Details	Time	Event	Abnormal 🖉 Normal Event History Event Configuratio	19 19 19 19 19 19 Access Standalone
Details	Time 2022-04-08 17:37:36	Event 111/Door 1	Abnormal ≥ Normal Event History Event Configuratio Description IP: Door is locked Device Type: Door is unlocked Device Model:	10.24.243.125

Figure 4-14 Monitor door status

Related Operations

- Show All Door: Displays all doors controlled by the Device.
- Reboot: Restart the Device.
- Details: View the device details, such as IP address, model, and status.

Appendix 1 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 Device; otherwise face recognition might fail.
- Keep your face clean.
- Keep the Device 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 Device 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.

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- Do not shake your head or body, otherwise the registration might fail.
- Avoid 2 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.





Appendix Figure 1-1 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.







- 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.

Appendix 2 Important Points of Intercom Operation

The Device can function as VTO to realize intercom function.

Prerequisites

The intercom function is configured on the Device and VTO.

Procedure

- Step 1 On the standby screen, tap 🔍.
- Step 2 Enter the room No, and then tap **S**.

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

How to Press Your Fingerprint on the Scanner







Appendix 4 Important Points of QR Code Scanning

Device: Place the QR code on your phone at a distance of 30 mm–50 mm away from the QR code scanning lens. It supports QR code that must be larger than 30 mm× 30 mm and less than 128 bytes in size.

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Appendix 5 Cybersecurity Recommendations

Mandatory actions to be taken for basic device 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 device (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 device 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 device network security:

1. Physical Protection

We suggest that you perform physical protection to device, especially storage devices. For example, place the device 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 device (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 device, thus 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 device 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 device, 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 device 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.