Villa Door Station

User Manual



Foreword

General

This manual introduces the installation, functions and operations of the villa door station device (hereinafter referred to as "the VTO"). Read carefully before using the device, and keep the manual safe for future reference.

Safety Instructions

The following signal words might appear in the manual.

Signal Words	Meaning
DANGER	Indicates a high potential hazard which, if not avoided, will result in death or serious injury.
A WARNING	Indicates a medium or low potential hazard which, if not avoided, could result in slight or moderate injury.
A CAUTION	Indicates a potential risk which, if not avoided, could result in property damage, data loss, reductions in performance, or unpredictable results.
NOTE	Provides additional information as a supplement to the text.

Revision History

Version	Revision Content	Release Date
V1.0.1	Updated the basic settings.Updated the cloud service.	June 2025
V1.0.0	First release.	November 2024

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 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 Safeguard 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.

Installation Requirements



WARNING

- Do not connect the power adapter to the device while the adapter is powered on.
- Do not connect the device to two or more kinds of power supplies, to avoid damage to the
- Please follow the electrical requirements to power the device.
 - ♦ Following are the requirements for selecting a power adapter.
 - O The power supply must conform to the requirements of IEC 60950-1 and IEC 62368-1 standards.
 - O The voltage must meet the SELV (Safety Extra Low Voltage) requirements and not exceed ES-1 standards.
 - When the power of the device does not exceed 100 W, the power supply must meet LPS requirements and be no higher than PS2.
 - ♦ We recommend using the power adapter provided with the device.
 - When selecting the power adapter, the power supply requirements (such as rated voltage) are subject to the device label.



- 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 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.
- The device must be installed at a height of 2 meters or below.

Operation Requirements



/ DANGER

Battery Pack Precautions

Preventive measures (including but not limited to):

 Do not transport, store or use the batteries in high altitudes with low pressure and environments with extremely high and low temperatures.

- Do not dispose the batteries in fire or a hot oven, or mechanically crush or cut the batteries to avoid an explosion.
- Do not leave the batteries in environments with extremely high temperatures to avoid explosions and leakage of flammable liquid or gas.
- Do not subject the batteries to extremely low air pressure to avoid explosions and the leakage of flammable liquid or gas.



- 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.
- Transport, use and store the device under allowed humidity and temperature conditions.
- If the device is powered off for longer than a month, it should be placed in its original package and sealed. Make sure to keep it away from moisture, and store it 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.

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1 Structure

1.1 Villa Door Station (Multiple Buttons)

1.1.1 Front Panel

Figure 1-1 Front panel

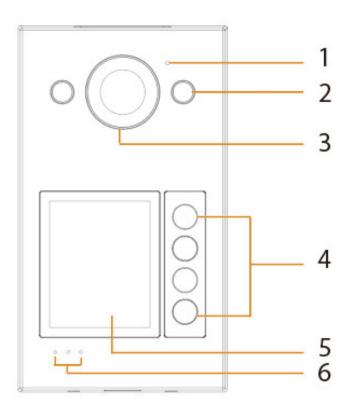


Table 1-1 Components

No.	Name	Function
1	MIC	Audio input.
2	Illuminator	Provides a constant light to focus more easily on a subject in dark surroundings.
3	Camera	Captures images or record videos for the VTO.
4	Call buttons	Calls the VTH.
5	Card swiping area	Swipes the registered cards to unlock doors.
6	Indicators	 From left to right: Ring: VTO is calling the VTH. Talking: VTO is on the talk with the VTH. Unlocking: VTO is unlocking successful.

1.1.2 Rear Panel



The multi-function port might differ depending on the actual models.

Figure 1-2 Rear panel

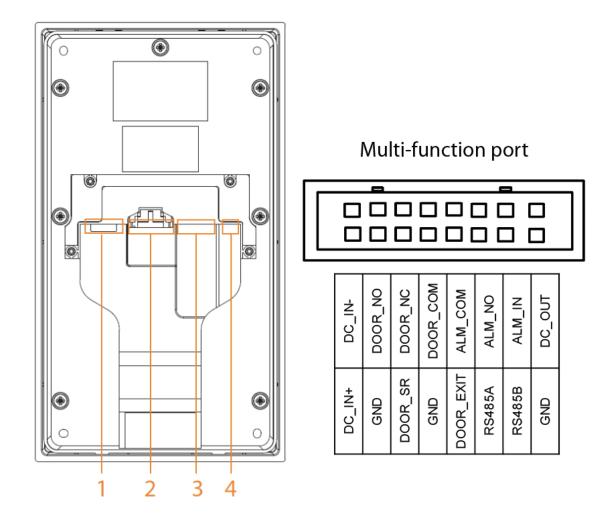


Table 1-2 Components

No.	Name	Function
1	SD card slot	Used to insert SD card so that data information such as images and videos can be stored.
2	Multi-function port	Alarm port, door detector port, 485 port, power port and other ports.
3	Network port	RJ-485 network port to connect to the network.
4	Reset button	Press and hold the button for several seconds to reset to factory settings.

1.2 Villa Door Station (Single Button)

1.2.1 R Series

1.2.1.1 Front Panel

Size and appearance might differ depending on the models of product.

Figure 1-3 Front panel

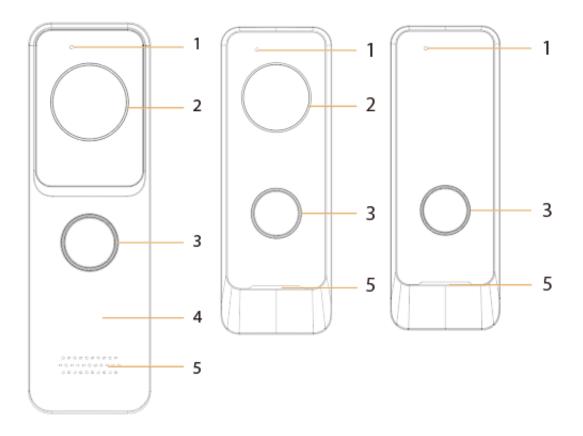


Table 1-3 Components

No.	Name	Function
1	MIC	Audio input.
2	Camera	Capture images or record videos for the VTO.
3	Call button	Call the VTH.
4	Card swiping area	Swipe the registered cards to unlock doors. The card swiping function is only available on select models.
5	Speaker	Audio output.

1.2.1.2 Rear Panel



The multi-function port might differ depending on the model. Here are two models used as examples.

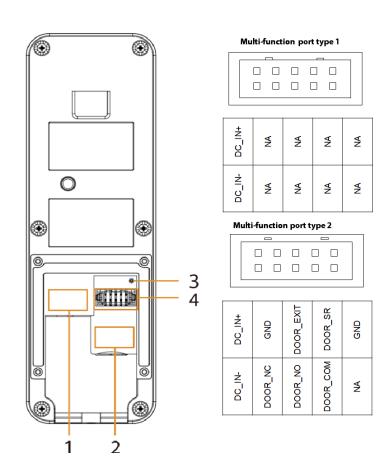


Figure 1-4 Rear panel (1)

Table 1-4 Components

No.	Name	Function
1	Network port	Connects to the network.
2	SD card slot	Insert SD card so that data information such as images and videos can be stored.
3	Reset button	Press and hold the button for several seconds to reset to factory settings.
4	Multi-function port	 Type 1: The multi-function port only has a power input port to connect to power supply. Type2: The multi-function port includes a power input port and a door detector port.

Figure 1-5 Rear panel (2)

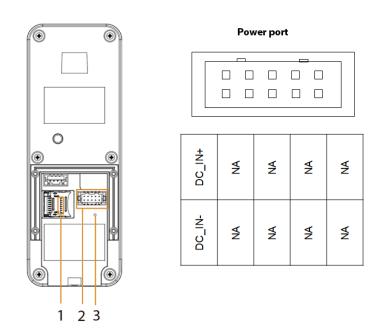


Table 1-5 Components

No.	Name	Function
1	SD card slot	Insert SD card so that data information such as images and videos can be stored.
2	Power port	Connects to the power supply.
3	Reset button	Press and hold the button for several seconds to reset to factory settings.

1.2.2 D Series

1.2.2.1 Front Panel

Figure 1-6 Front panel

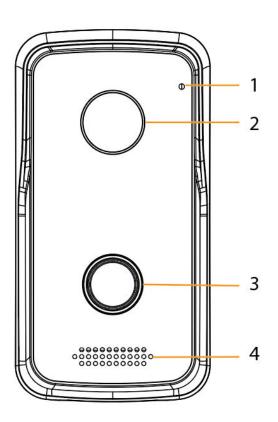


Table 1-6 Components

No.	Name	Function
1	MIC	Audio input.
2	Camera	Capture images or record videos for the VTO.
3	Call button	Call the VTH.
4	Speaker	Audio output.

1.2.2.2 Rear Panel

Figure 1-7 Rear panel

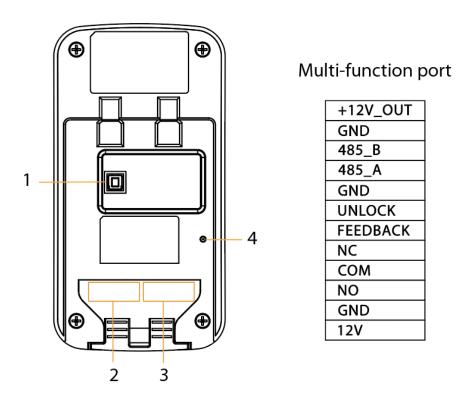


Table 1-7 Components

No.	Name	Function
1	Tamper button	 After the installed device is removed from the wall or other places, the device beeps and the alarm record will be generated. Within 5 minutes after the device is powered on, if you press the tamper button for 5 times in 8 seconds, the device beeps and deletes the account information. The alarm record will be generated.
2	Multi-function ports	Alarm port, door detector port, 485 port, power port and more.
3	Network port	Connects to the network.
4	Reset button	Press and hold the button for several seconds to reset to factory settings.

1.2.3 G Series

1.2.3.1 Front Panel

Figure 1-8 Front panel

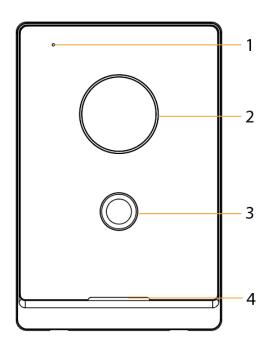
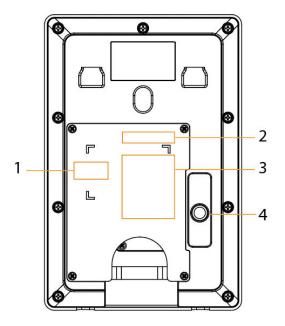


Table 1-8 Components

No.	Name	Function
1	MIC	Audio input.
2	Camera	Capture images or record videos for the VTO.
3	Call button	 Call the VTH. The button displays different colors in different statuses. Standby: No light. Call not answered: Solid green. Call answered: Solid blue. Unlock when the device is in standby status: Red. Unlock when the call is not answered: Flashes green, yellow and then green. Unlock after the call is answered: Flashes blue, pink and then blue. Network disconnected: Green breathing light.
4	Speaker	Audio output.

1.2.3.2 Rear Panel

Figure 1-9 Rear panel



Multi-function port

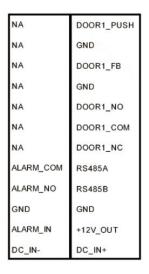


Table 1-9 Components

No.	Name	Function	
1	Network port	Connects to the network.	
2	Multi-function port	Alarm port, door detector port, 485 port, power port and more.	
3	SD card slot	Insert SD card so that data information such as images and videos can be stored.	
4	Tamper button	 After the installed device is removed from the wall or other places, the device beeps and the alarm record will be generated. Within 5 minutes after the device is powered on, if you press the tamper button for 5 times in 8 seconds, the device beeps and deletes the account information. The alarm record will be generated. 	

1.2.4 E Series

1.2.4.1 Front Panel (3222E)

Figure 1-10 Front panel

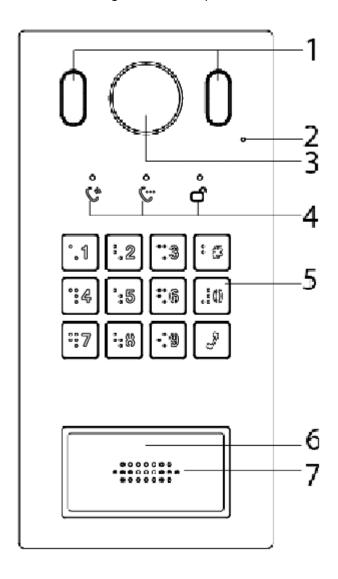


Table 1-10 Front panel description

No.	Name	Description	
1	Illuminator	Provides extra light for the camera when it is dark.	
2	Microphone	Audio input.	
3	Camera	Capture images or record videos for the VTO.	
4	Indicators	Displays status on calling, talking and unlock.	
5	Keypad	_	
6	Card reading area	Swipe a card here to unlock the door.	
7	Speaker	Audio output.	

1.2.4.2 Rear Panel (3222E)

Figure 1-11 Rear panel

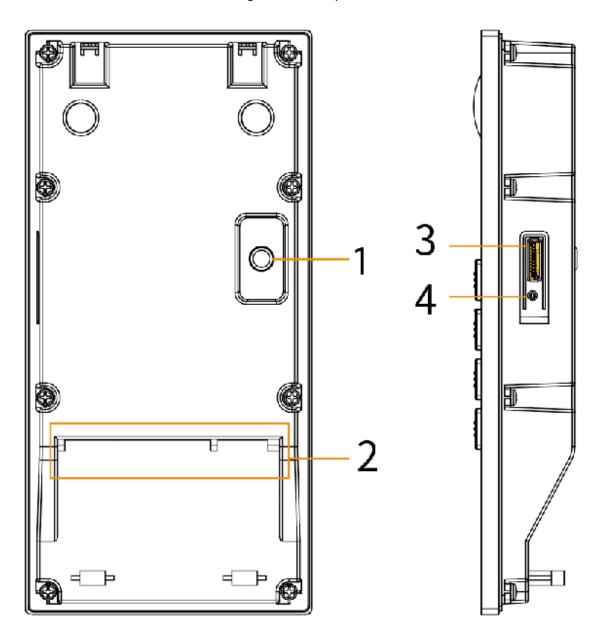
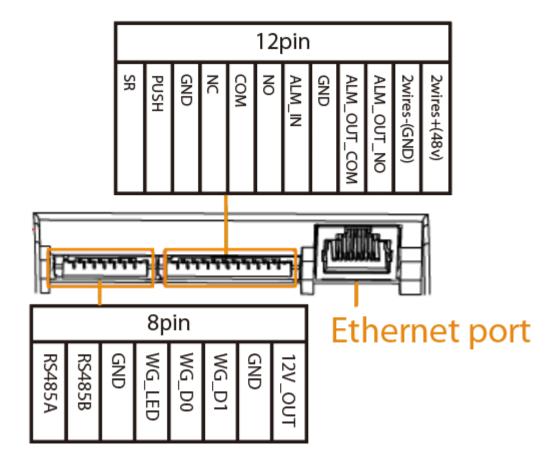


Table 1-11 Rear panel description

No.	Name	Description
1	Anti-tampering switch	When the VTO is removed from the wall forcibly, an alarm will be triggered and the alarm information will be sent to management center.
2	Multi-function port	For details, see Figure 1-12 .
3	SD card slot	Plug in the SD card.
4	Reset button	Press and hold it for 10 seconds to reset all settings.

Figure 1-12 Multi-function port



1.2.4.3 Front Panel (2101E)

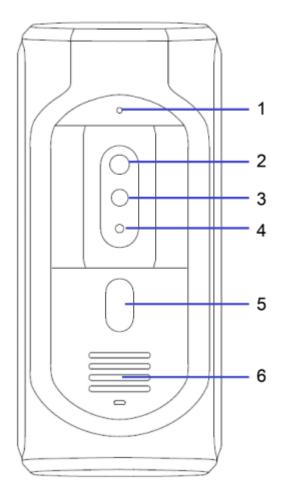


Figure 1-13 Front panel

Table 1-12 Front panel description

No.	Name	Description	
1	Microphone	_	
2	Camera	_	
3	IR illumination light	Provides extra IR light for the camera when it is dark.	
4	Light sensor	Detects ambient lighting condition.	
5	Call button	Call VTHs or the management center.	
6	Speaker	_	

1.2.4.4 Rear Panel (2101E)

Figure 1-14 Rear panel

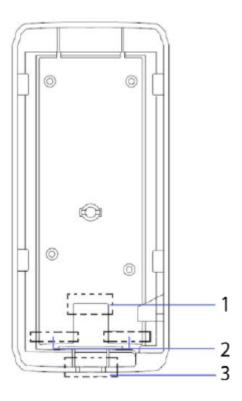


Table 1-13 Rear panel description

No.	Name	Description	
1	Network port	Connects to the network cable.	
2	RS-485 ports	See the figure and the table below.	
3	Cable outlet	Thread the cables here.	

Figure 1-15 Cable connection

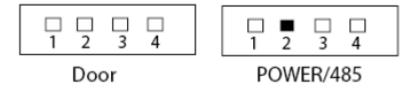


Table 1-14 Port description

DOOR		POWER/485	
No.	Name	No.	Name
1	NO	1	+12
2	NC	2	GND
3	СОМ	3	RS-485A
4	ALARM IN or Unlock (default)	4	RS-485B

1.2.5 F Series

1.2.5.1 Front Panel

Figure 1-16 Front panel

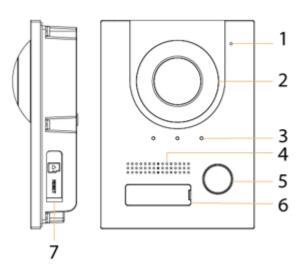


Table 1-15 Front panel description

No.	Name	Description	
1	Microphone	Audio input.	
2	Camera	Capture images or record videos for the VTO.	
3	Indicators	Display status on calling, talking and unlock.	
4	Speaker	Audio output.	
5	Call button	Call button.	
6	Nameplate	Displays the custom information.	
7	Card slot and reset button	 Insert SD card so that data information such as images and videos can be stored. Press and hold the button for several seconds to reset to factory settings. 	

1.2.5.2 Rear Panel

Figure 1-17 Rear panel

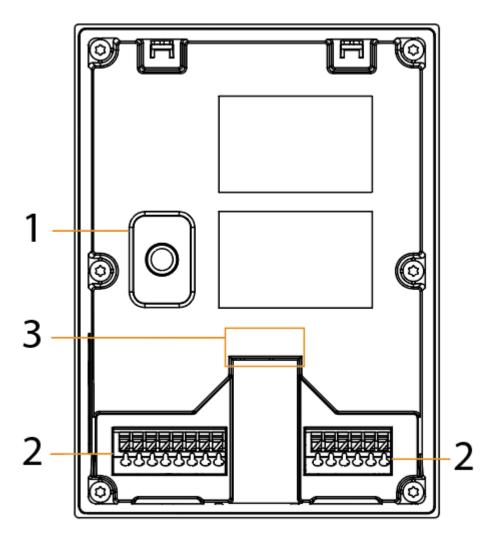


Table 1-16 Rear panel description

No.	Name	Function	
1	Tamper button	 After the installed device is removed from the wall or other places, the device beeps and the alarm record will be generated. Within 5 minutes after the device is powered on, if you press the tamper button for 5 times in 8 seconds, the device beeps and deletes the account information. The alarm record will be generated. 	
2	Multi-function ports	Alarm port, door detector port, 485 port, power port and more.	
3	Network port	Connects to the network.	

Figure 1-18 Multi-function ports

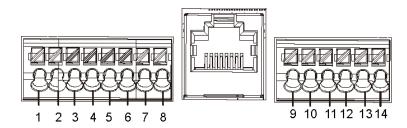


Table 1-17 Port description

No.	Description	No.	Description
1	GND	8	 2 wires-(GND) for a digital 2-wire camera module GND for a full digital camera module
2	+12V_OUT	9	DOOR_BUTTON
3	RS-485_B	10	DOOR_FEEDBACK
4	RS-485_A	11	GND
5	ALARM_NO	12	DOOR_NC
6	ALARM_COM	13	DOOR_COM
7	 2wires+(48V) for a digital 2- wire camera module 12 V_IN for a full digital camera module 	14	DOOR_NO

1.3 Button Model

1.3.1 Front Panel

Figure 1-19 Front panel

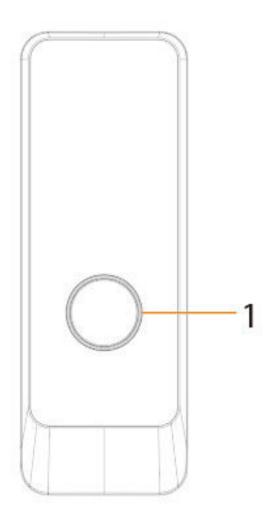


Table 1-18 Components

No.	Name	Function	
1	Press button	The button model can be connected to the VTH. Press the button on the model and the VTH receives an alarm signal.	

1.3.2 Rear Panel

Figure 1-20 Rear panel

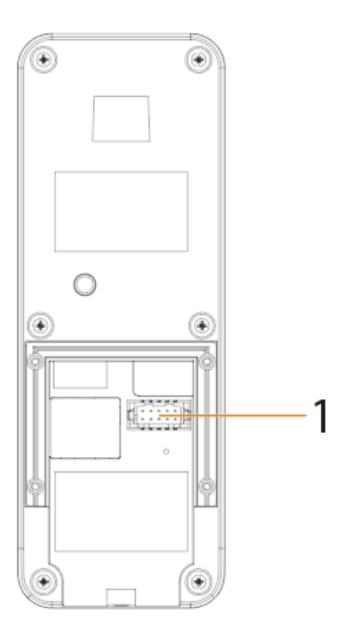
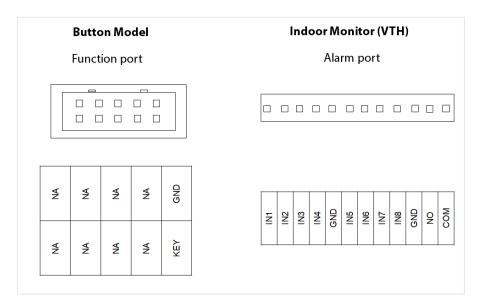


Table 1-19 Components

No.	Name	Function
1	Multi-function port	Used for alarm input.

Figure 1-21 Cable connection



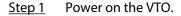
Connect the KEY port of the button model to any one of the alarm input ports of the indoor monitor (VTH) with a cable thread. After that, tap **Setting** > **Alarm** > **Wired Zone** on the VTH and set the **Type** of the alarm input port you chose to connect to the KEY port as **Doorbell**.

2 Initializing the VTO

2.1 Webpage

For first-time login, you need to initialize the VTO.

Procedure



Step 2 Go to the default IP address (192.168.1.108) of the VTO.



Make sure that the IP address of your PC is on the same network segment as the VTO.

<u>Step 3</u> On the **Device Init** page, enter and confirm the password, and then click **Next**.



The password must consist of 8-32 non-blank characters and contain at least two types of the following characters: Uppercase, lowercase, numbers, and special characters (excluding ' ";: &).

- <u>Step 4</u> Select the **Email** checkbox and enter an email address for resetting password.
- Step 5 Click **Next**.
- Step 6 Click **OK** to go to the login page.
- <u>Step 7</u> Enter the username (admin by default) and password to log in to the webpage.

2.2 DMSS APP

If your model supports Wi-Fi connection to the network, you can initialize the VTO on the DMSS app. For detailed operation of the app, refer to its user manual.

Prerequisites

You have downloaded the DMSS in the APP Store (iOS) or Google Play (Android), and have created an account and logged in to the app.

Procedure

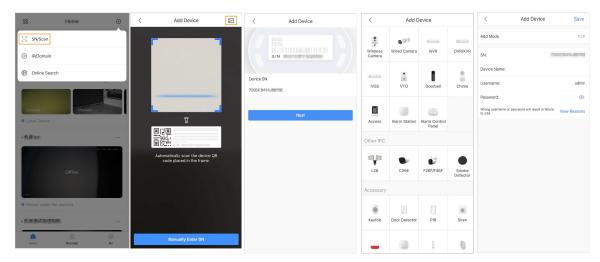
- Step 1 Power on the VTO.
- <u>Step 2</u> Enable hotspot on the VTO through pressing and holding the call button on the VTO until you heard the voice prompt.



The hotspot function is to enable you connect the VTO to the network through **AP configuration** on the app.

- Step 3 Add the VTO to the DMSS app.
 - 1. On the **Home** screen, tap \oplus , and then select **SN/Scan**.
 - 2. Add a VTO.
 - 3. You can add through scanning the QR code at the rear panel of the VTO.
 - 4. The SN number of the VTO appears automatically, and then tap **Next**.
 - 5. Select device type as **VTO**, and then the device information appears.
 - 6. Tap View Reasons.

Figure 2-1 Add VTO to DMSS

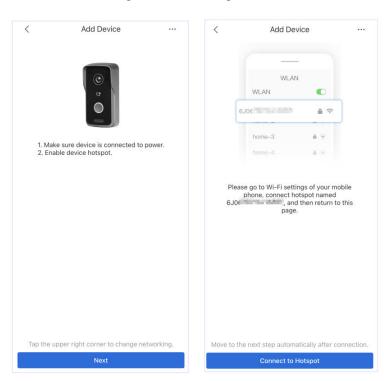


- 7. Configure network by switch networking to **AP Configuration**, and then tap **Next**.
- 8. Connect your phone to the hotspot you just enabled on the VTO.



- The hotspot name is the SN number of your VTO.
- The current page will move on to the next step automatically after connection.

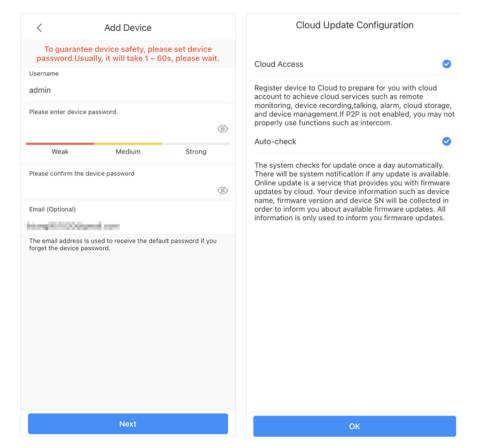
Figure 2-2 AP configuration



- <u>Step 4</u> Complete initialization based on instructions on the app.
 - 1. Enter the password you planned for the VTO, and confirm it, and then tap **Next**.
 - 2. Select Cloud Access and Auto-check, and then tap OK.

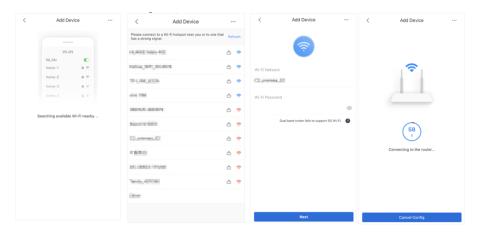
The initialization process is completed.

Figure 2-3 Initialization



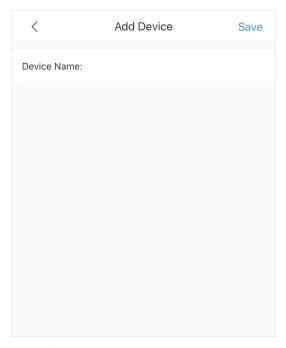
- Step 5 Connect the VTO to the network through Wi-Fi.
 - 1. Select an available Wi-Fi.
 - 2. Enter the password and tap **Next**. Wait for the VTO to connect to the router.

Figure 2-4 Wi-Fi connection



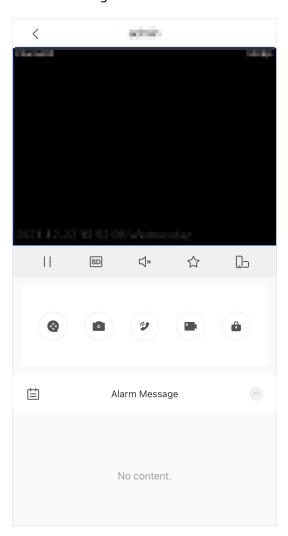
<u>Step 6</u> Configure device name, and then tap **Save**.

Figure 2-5 Configure device name



Step 7 View monitoring video from the camera on the VTO.

Figure 2-6 Monitor



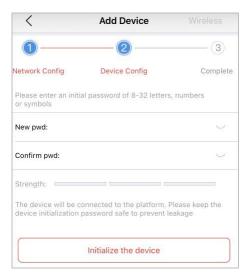
2.3 DoLynk Care

You can initialize the device on the DoLynk Care. Here uses initialization on DoLynk Care app as an example. For detailed operation of the app, refer to its user manual.

Procedure

- Step 1 On the home screen, tap \oplus .
- Step 2 Tap **QR**.
- Step 3 Scan device QR code, or tap to manually enter device SN.
- Step 4 Select a site, and then tap **OK**.
- <u>Step 5</u> On the **Add Device** screen, select a device type.
- Step 6 Connect to wireless or wired network.
- <u>Step 7</u> Enter password and confirm it again, and then tap **Initialize the device** to complete initialization.

Figure 2-7 Initialize the device



<u>Step 8</u> Tap **Completed**, and then you can view the device in the device list.

3 Logging In and Resetting Password

3.1 Login

Before login, make sure that the computer is on the same network segment as the VTO.

Procedure

Step 1 Go to the IP address of the VTO in the browser.

For first-time login, enter the default IP (192.168.1.108). If you have multiple VTOs, we recommend that you change the default IP address to avoid conflict.

<u>Step 2</u> Enter **admin** as the username, and enter the password you set during initialization, and then click **Login**.

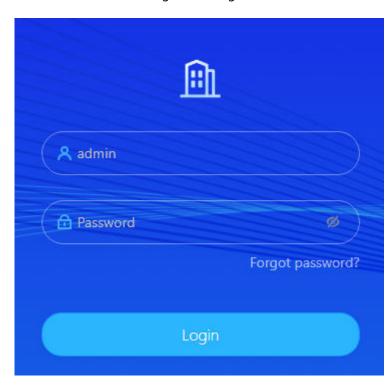


Figure 3-1 Login

3.2 Resetting Password

Procedure

Step 1 On the login page, click **Forgot Password?**, and then click **Next**.

<u>Step 2</u> Scan the QR code, and then you will get a string of numbers and letters.

<u>Step 3</u> Send the string to the email account displayed on the page, and then the security code will be sent to the email address configured during initialization.

<u>Step 4</u> Enter the security code in the input box, and then click **Next**.

 If you did not set an email address during initialization, contact your supplier or customer service for help.

- The security code will be valid only for 24 hours upon receipt.
- If you enter the wrong security code for 5 consecutive times, your account will be locked for 5 minutes.

<u>Step 5</u> Enter and confirm the new password, and then click **OK**.

4 Home Page

Figure 4-1 Home page

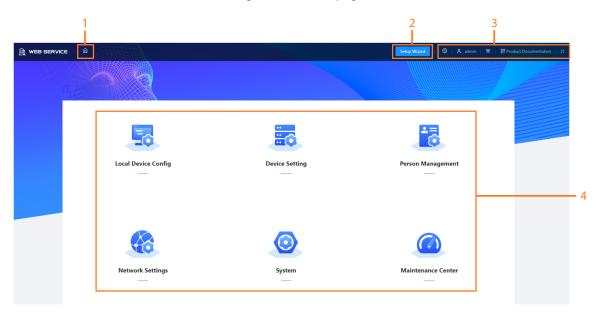


Table 4-1 Home page introduction

No.	Function	Description
1	Home button	Go back to the home page.
2	Setup Wizard	Configure the VTO SIP server.
3	Navigation bar	 Change language of the webpage of the VTO. Admin: Change password, log out of the current device, restart the system, and restore the device to factory settings. View and configure the security settings. Scan the QR code to get the product material. View the webpage in full screen mode.
4	VTO function	Different function areas of the VTO.

5 Setup Wizard

- Through the setup wizard, you can finish the process of adding VTO/VTH and specific any VTO as the SIP server. You can also cancel its status of working as a SIP server.
- If the device has been added to the DoLynk Pro, the setup wizard will not shown.

5.1 Setting as the SIP Server

Set the VTO as the SIP server.

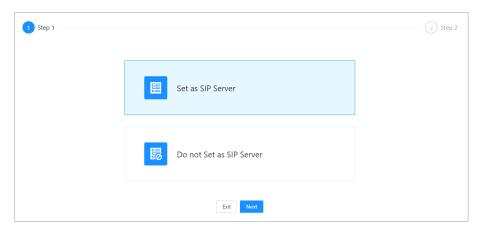
Prerequisites

You have added VTOs on the webpage. If not, you can add them in **Set as SIP Server** page or in the **Device Setting** section.

Procedure

- Step 1 Log in to the webpage of the VTO.
- <u>Step 2</u> Select **Setup Wizard** > **Set as SIP Server**, and then click **Next**.

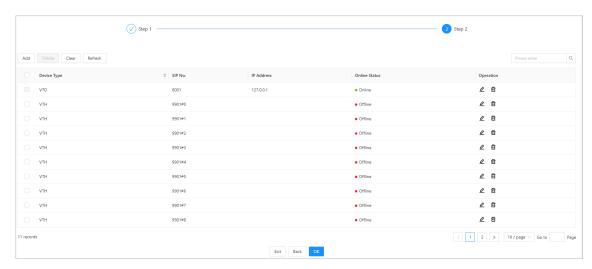
Figure 5-1 Set as SIP server



Select the VTO to be set as the SIP server, and then click **OK**.

You can also click **Add** to add VTOs if you have not had one to work as the SIP server.

Figure 5-2 Select the SIP server



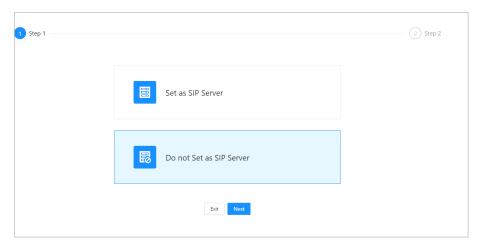
5.2 Not Setting as the SIP Server

If you want to change the SIP server, you need to remove the current one from the list.

Procedure

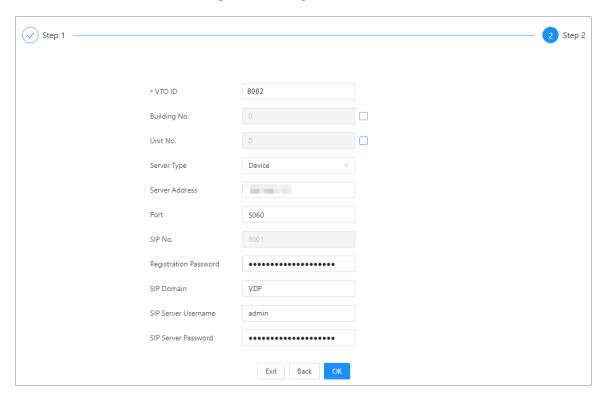
- Step 1 Log in to the webpage of the VTO.
- <u>Step 2</u> Select **Setup Wizard** > **Do not Set as SIP Server**, and then click **Next**.

Figure 5-3 Do not set as SIP server



<u>Step 3</u> Configure the information of the VTO that you do not want to set as SIP server, and then click **OK**.

Figure 5-4 Configure information



6 Local Device Configuration

This chapter introduces the detailed configuration of the VTO.

 \coprod

Slight differences might be found in different models.

6.1 Basic Settings

Configure basic settings of the device.

Background Information

If the device has been added to the DoLynk Pro, the device type can not be modified.

6.1.1 Villa Door Station

Procedure

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

Step 2 Configure the parameters.

Figure 6-1 Basic settings

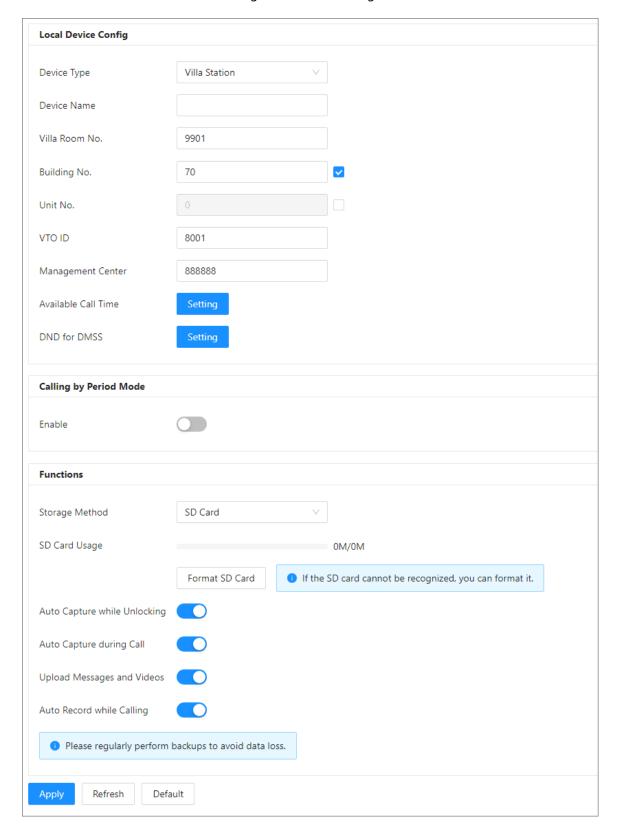


Table 6-1 Basic parameter description

Parameter	Description	
Device Type	Select Villa Station.	
Device Name	When other devices are monitoring this VTO, the device name will appear on the monitoring image.	
Villa Room No.	VTH room number. Used to call VTHs.	
Building No.	Configuring the building and unit number where the device is.	
Unit No.	If you clear the Building No. and Unit No. checkbox, it means that there is just only 1 building and unit.	
VTO ID	Used to differentiate each VTO, and we recommend you set it according to unit or building number, and then you can add VTOs to the SIP server by using their numbers.	
VIOID	The number cannot be changed when the VTO serves as the SIP server.	
Group Call	Enable it on the VTO that works as the SIP server, and when a main VTH receives a call, all extension VTHs will also receive the call.	
Management Center	888888 by default.	
Available Call Time	The time period in which the VTO's calling to other devices is limited. Click Setting to set the time plan for calling.	
DND for DMSS	The time period in which the calling to DMSS is not limited. Click Setting to set the time plan for calling.	
Calling by Period Mode	 If you enable the Calling by Period Mode, the specified number can be called in the specified period and the default number in other period. Click Setting to set the time plan for calling. 	
	This function is only available when the mode is villa door station and second confirmation station.	
Storage Method	SD card by default.	
SD Card Usage	Displays the total and used capacity of the SD card. You can click Format SD Card to delete all the data in the SD card.	
Auto Capture while Unlocking	Take a snapshot and save it in the SD card of the VTO when the VTO is unlocking.	
·	If the VTO is unlock through local unlock button, the snapshot will not be taken.	

Parameter	Description	
Auto Capture during Call	Take a snapshot and save it in the SD card of the VTO when the VTO is calling.	
Upload Messages and Videos	When enabled:	
	 If an SD card is inserted in both the VTH and VTO, the video message will be saved both in the SD cards of the VTH and the VTO. 	
	 If an SD card is only inserted in the VTH or the VTO, the video message will be saved only in the SD card of the VTH or the VTO. 	
	 If no SD card is inserted in the VTH or VTO, no video message will be saved. 	
Auto Record while Calling	Take recording when the VTO is in a call, and save the recording in the SD card of the VTO.	
	 When the call time is less than 5 seconds, no video file will be generated. If there is a conflict between Auto Record while Calling and Leave Videos, Leave Videos prevails. 	

Step 3 Click **Apply**.

6.1.2 Second Confirmation Station



The configuration of second confirmation station is available on select models.

Procedure

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

Step 2 Configure the parameters.

Figure 6-2 Basic settings (Second confirmation station)

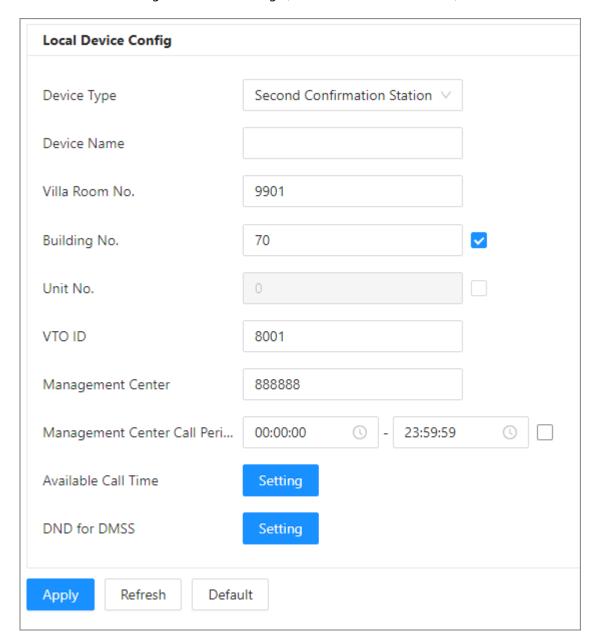


Table 6-2 Basic parameter description

Parameter	Description	
Device Type	Select Second Confirmation Station.	
Device Name	When other devices are monitoring this VTO, the device name will appear on the monitoring image.	
Villa Room No.	VTH room number. Used to call VTHs.	
Building No. Unit No.	Configuring the building and unit number where the device is.	
	If you clear the Building No. and Unit No. checkbox, it means that there is just only 1 building and unit.	

Parameter	Description	
VTO ID	Used to differentiate each VTO, and we recommend you set it according to unit or building number, and then you can add VTOs to the SIP server by using their numbers.	
	The number cannot be changed when the VTO serves as the SIP server.	
Management Center	It is 888888 by default.	
Management Center Call Period	Configure the time if you only want to receive calls from VTH during a specific period, and then enable the function.	
Available Call Time	The time period in which the VTO's calling to other devices is limited. Click Setting to set the time plan for calling.	
DND for DMSS	The time period in which the calling to DMSS is not limited. Click Setting to set the time plan for calling.	

Step 3 Click **Apply**.

6.2 Access Control



Different model series have varied access control functions. Here uses the example for configuring the model E series.

6.2.1 Configuration

Procedure

 $\underline{\mathsf{Step 1}} \qquad \mathsf{Select}\, \mathbf{Local}\, \mathbf{Device}\, \mathbf{Config} \, > \mathbf{Access}\, \mathbf{Control} \, > \mathbf{Config}.$

Step 2 Configure the parameters.

Figure 6-3 Access control

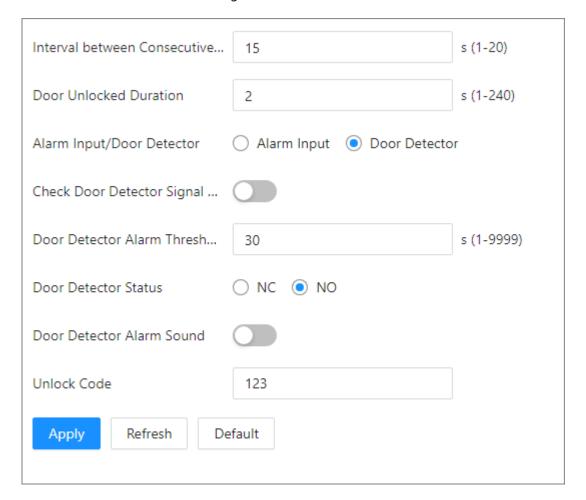


Table 6-3 Access control parameter description

Parameter	Description	
Interval between Consecutive Unlocks	The door can only be unlocked again after the interval.	
Door Unlocked Duration	The time during which the lock stays unlocked.	
Alarm Input/Door Detector	Select one of them.	
Check Door Detector Signal Before Locking	Enable the function based on your needs.	
Door Detector Alarm Threshold	The threshold time when the door detector alarm is triggered.	
Door Detector Status	NC : Normally closed.NO : Normally open.	

Parameter	Description	
	It is disabled by default.	
	When it is enabled:	
Door Detector Alarm Sound	 Door Detector Status is NC: If the door opening time exceeds the set door detection alarm threshold, the VTO will beep. And when the door detector is closed, the VTO does not beep again. Door Detector Status is NO: If the door closing time exceeds the set door detection alarm threshold, the VTO will beep. And when the door detector is open, the VTO does not beep again. 	
Unlock Code	You can connect a third-party phone, such as a SIP phone, to the VTO, and use the code to open the door remotely.	

Step 3 Click **Apply**.

6.2.2 RS-485

- <u>Step 1</u> Select Local Device Config > Access Control > Extension Function > RS-485.
- <u>Step 2</u> Configure the parameters of the lock connected through the RS-485 port.

Figure 6-4 RS-485

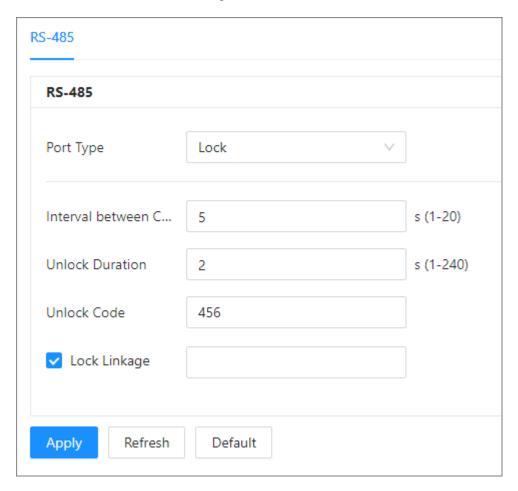


Table 6-4 RS-485 description

Parameter	Description	
	Lock by default.	
Port Type	Card readers can be connected, which only supports compact flash card.	
Interval between Consecutive Unlocks	The door can only be unlocked again after the interval.	
Unlock Duration	The time during which the lock stays unlocked.	
Unlock Code	You can connect a third-party phone, such as a SIP phone, to the VTO, and use the command to open the door remotely. The default command is 456.	
Lock Linkage	Enable the Lock Linkage , and then select the linkage lock from the drop-down list.	

Step 3 Click **Apply**.



- When the 485 module of VTO linked with security module (DEE1010B) connects to card reader, the security module has a limit on the length of the entered password (10 digits supported). Therefore, room number (6 digits) + personal password (6 digits) can not unlock the door.
- When the 485 module of VTO linked with security module (DEE1010B) connects to QR card reader, QR code can not unlock the door because the RS-485 of VTO does not support QR code transmission.
- When the 485 module of VTO linked with security module (DEE1010B) connects to card reader, cards cannot be issued through the 485 module and security module DEE1010B, because the 485 module does not support bidirectional command interaction.

6.3 Card Settings

Procedure

Step 1 Log in to the webpage.

Step 2 Select **Local Device Config** > **Card Settings**.

Figure 6-5 Card settings

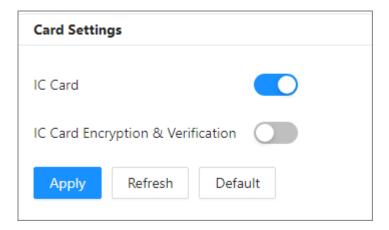


Table 6-5 Description of card parameters

Parameter	Description
IC Card	When enabled, IC card can be used to open the door.
IC Card Encryption & Verification	When enabled, the IC card is encrypted. Swipe the right card with successful encryption detection to open the door.

 \square

External card readers do not support encrypted IC cards.

Step 3 Click **Apply**.

6.4 Wiegand Settings

Supports access Wiegand devices. Configure the mode and the transmission mode according to your actual devices.

Procedure

Step 1 Log in to the webpage.

<u>Step 2</u> Select **Local Device Config** > **Wiegand Settings**.

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

Figure 6-6 Wiegand input

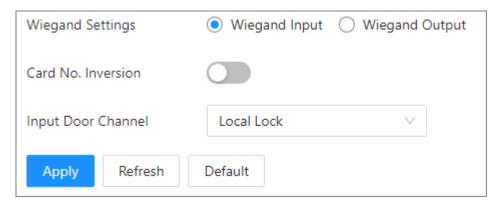


Figure 6-7 Wiegand output

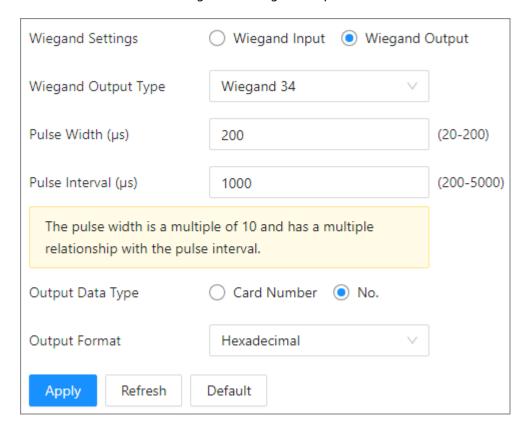


Table 6-6 Description of Wiegand parameters

Parameter		Description
Wiegand Settings		 Select Wiegand Input when other recognition devices are connected. Select Wiegand Output when the VTO works as the recognition device. You can connect the access controller or other devices to the VTO.
Wiegand Input	Card No. Inversion	When the third party devices are connected, if the card number order recognized by the device is different from the actual card number, enable this function to correct it.
	Input Door Channel	Select the channel from Local Lock and External Lock .
Wiegand Output	Wiegand Output Type	Select a Wiegand format to read card numbers or ID numbers. • Wiegand26: Reads three bytes or six digits. • Wiegand34: Reads four bytes or eight digits. • Wiegand66: Reads eight bytes or sixteen digits.
	Pulse Width	Enter the pulse width and pulse interval of Wiegand output.

Parameter		Description
	Pulse Interval	
		Select the type of output data.
	Output Data Type	 Card Number: Outputs data based on user's first card number. No.: Outputs data based on user ID.
	Output Format	When the output data type is configured as number, select from Decimal and Hexadecimal .

Step 4 Click **Apply**.

6.5 Layout (Multiple Buttons)

This function is only available for select models with multiple buttons (1 button, 2 buttons and 4 buttons). Here is an example of configuration for the VTO that has one button installed on its device.

Procedure

- <u>Step 1</u> Log in to the webpage of the VTO.
- Step 2 Select Local Device Config > Layout.
- Step 3 Click the nameplates next to where you have installed the button(s), and then select the room number(s) from the **Room No.** you want to bind. For example, 9901, 9902, 9903 and 9904.

- You need to first configure the room number. Otherwise, you have no room number to select from in the module list. VTH room numbers is configured in **Device Setting**.
- You need to configure the room number based on your installation position of buttons. For example, if you have only installed one button next to the first nameplate, then you need to click the module of first nameplate to configure the room number on the webpage. If you have installed one button next to the fourth nameplate, then you need to click the module of fourth nameplate to configure the room number on the webpage. Keep the above configuration rule when you install 2 buttons or 4 buttons on the VTO and configure the corresponding room numbers on the webpage.

Figure 6-8 Fourth button installation

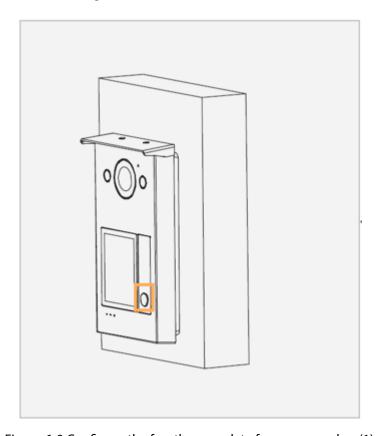


Figure 6-9 Configure the fourth nameplate for room number (1) $\,$

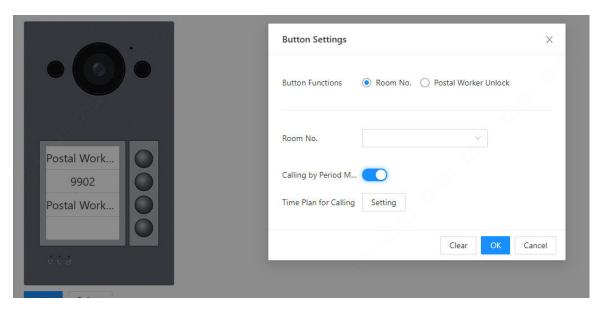
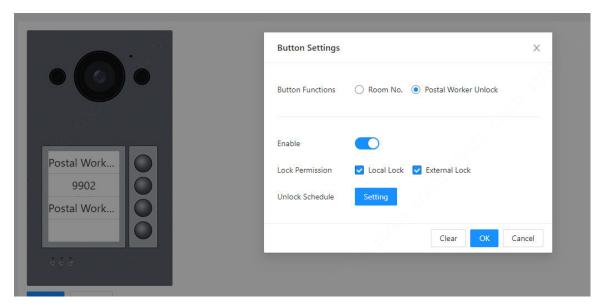


Figure 6-10 Configure the fourth nameplate for postal worker unlock (2)



- <u>Step 4</u> Click **Apply** to save the selected room number.
- Step 5 If you want to bind room numbers when you install 2 buttons or 4 buttons for the VTO, repeat Step 3 to Step 4 until you have configured all of the room numbers.

7 Device Setting

This chapter introduces how to add, modify, and delete VTO, VTH, VTS, and IPC, and how to send messages from the SIP server to VTOs and VTHs when the VTO works as the SIP server. If you are using other servers as the SIP server, see the corresponding manual for details.

7.1 VTO Management

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

- <u>Step 1</u> Log in to the webpage of the VTO that works as the SIP server.
- Step 2 Select **Device Setting**.
- Step 3 Click **Add**.
- Step 4 Configure the parameters.

Figure 7-1 Add VTO

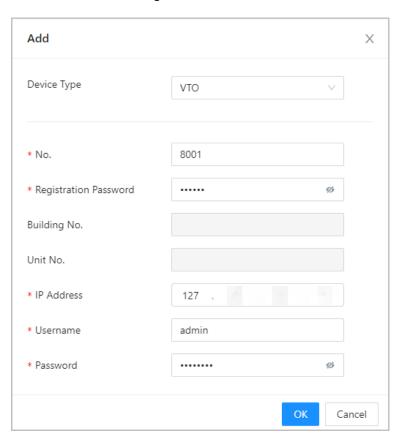


Table 7-1 Add VTO configuration

Parameter	Description
Device Type	Select VTO .
No.	The VTO number you configured.
Registration Password	Leave it as default.

Parameter	Description
Building No.	Available only when the platform servers or VTS work as the SIP
Unit No.	server.
IP Address	IP address of the VTO.
Username	User name and password used to log in to the webpage of the
Password	VTO.

Step 5 Click **OK**.

Related Operations

- Click do edit the VTO.
- Click to delete added VTOs, but the one that you have logged in to cannot be modified or deleted.

7.2 VTH Management

You can add room numbers to the SIP server, and then configure the room number on the VTHs to connect them to the network.

- <u>Step 1</u> Log in to the webpage of the SIP server.
- Step 2 Select **Device Setting**.
- Step 3 Click **Add**.
- Step 4 Configure the parameters.
 - Select the device type as **VTH**.

Figure 7-2 Add VTH one by one

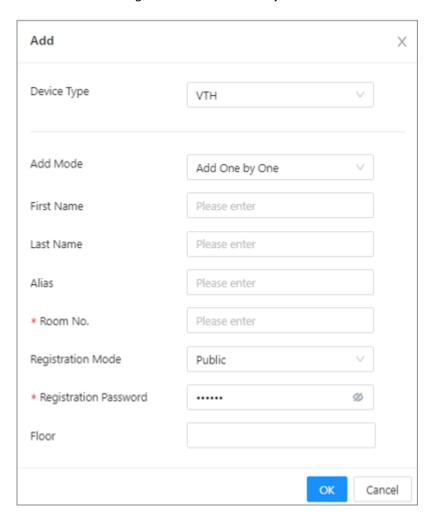


Table 7-2 Parameters description

Parameter	Description
First Name	
Last Name	Enter the information you need to differentiate each room.
Alias	
Room No.	Enter a room number, and then configure the number on a VTH to connect it to the network.
Registration Mode	Select Public .
Registration Password	Leave it as default.
Floor	Select the floor which can be given the permission.
	This parameter is available only when Lift Control Mode is selected as With Lift Controller .

• Select the add mode as **Add in Batches**.



Add in Batches is not available when the device mode is set to villa.

If the device has been added to the DoLynk Pro, no matter what device type is, the **Add in Batches** is available.

Figure 7-3 Add VTH in batches

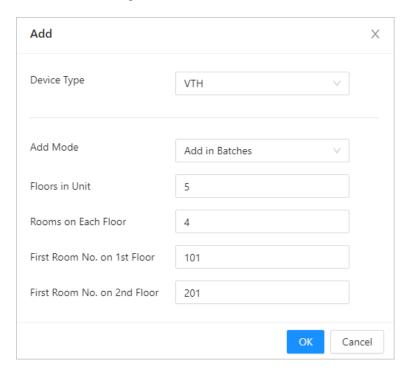


Table 7-3 Parameters description

Parameter	Description
Floors in Unit	Configure the numbers of floors and rooms.
Rooms on Each Floor	
First Room No. on 1st Floor	Configure the first room number on the first and second floor, the room number will be automatically generated.
First Room No. on 2nd Floor	

Step 5 Click **OK**.



- Click to edit the VTH, or to delete added VTHs, but the one that you have logged in to cannot be modified or deleted.
- Click or to call or hang up VTH.



- ♦ It is only available when SIP function is online.
- ♦ If the group call is enabled, the group call will be performed when call #0 or -0 VTH.
- ♦ The calling function is only available for VTH.

7.3 VTS Management

You can add a VTS to the SIP server, and then it can be used as the management center. It can also manage, call, or receive calls from all the VTOs and VTHs in the network. See the corresponding user's manual for details.

- <u>Step 1</u> Log in to the webpage of the VTO that works as the SIP server.
- Step 2 Select **Device Setting**.
- Step 3 Click **Add**.
- Step 4 Configure the parameters.

Figure 7-4 Add VTS

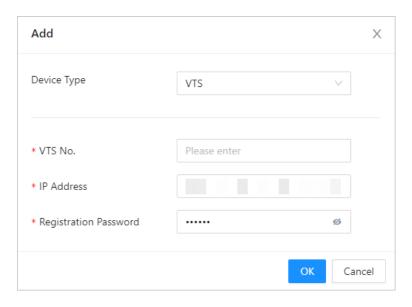


Table 7-4 Add VTS configuration

Parameter	Description
Device Type	Select VTS .
VTS No.	The number of the VTS.
Registration Password	Leave it as default.
IP Address	VTS IP address.

Step 5 Click **OK**.

8 Person Management

Background Information

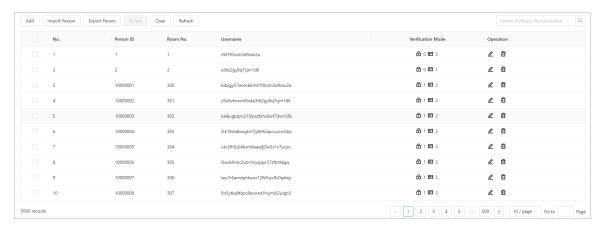
The card and fingerprint information that registered on the VTO will be uploaded to the person management in real time.

Procedure

Step 1 Log in to the webpage.

Step 2 Select **Person Management**.

Figure 8-1 Person management



Step 3 Click **Add**.

<u>Step 4</u> Configure the parameters, and then click **OK**.

Figure 8-2 Add the person

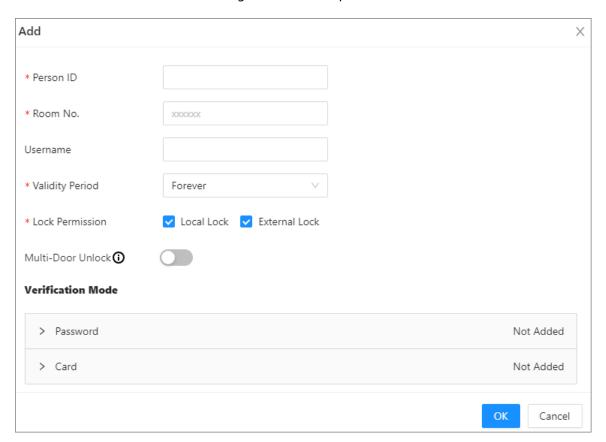


Table 8-1 Person parameters description

Parameter	Description
Person ID	Customize the number.
Room No.	Enter the corresponding room number of the VTH.
Username	Enter the user name.
Validity Period	Configure the validity period during which people have access permissions.
Lock Permission	Set the lock permission. You can enable the permission for local lock and external lock at the same time.
Multi-Door Unlock	When verification is successful, the local lock and external lock will open at the same time.
	Personal password does not support this function.
Password	 Select Password > Add. Enter the password, and then confirm it again.
	The password must consist of 4-6 digits. 3. Click OK .

Parameter	Description
	 Select Card > Add. Enter the card number. Or you can click Issue Card, and then swipe the card on VTO. Click OK.
Card	You can manage the cards through the following icons. ■
Floor	Select the floor which can be given the permission.
	This parameter is available only when Lift Control Mode is selected as Without Lift Controller .

9 Network Settings

This chapter introduces how to configure the network parameters.

9.1 TCP/IP

You need to configure the TCP/IP information to connect the VTO to the network.

- Step 1 Log in to the webpage of the VTO.
- Select **Network Settings** > **TCP/IP**.
- <u>Step 3</u> Configure the TCP/IP parameters.

Figure 9-1 TCP/IP

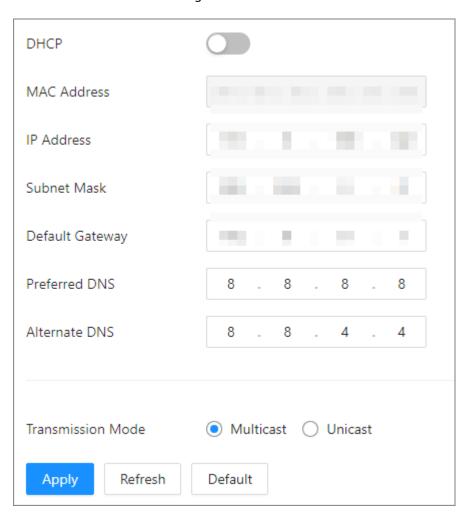


Table 9-1 Parameter description

Parameter	Description
DHCP	Automatically assigns IP addresses and other network configuration parameters.
IP Address	Your planned IP address for the VTO.

Parameter	Description
Preferred DNS	It is 8.8.8.8 by default.
Alternate DNS	It is 8.8.4.4 by default.
Transmission Mode	 Multicast: Ideal for video talk. Unicast: Ideal for group call.
	Unicast is not recommended when the platform is being used as an SIP server.

Step 4 Click **Apply**.

9.2 Port

Procedure

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

Step 2 Configure the parameters.

Figure 9-2 Port



Table 9-2 Parameter description

Parameter	Description
TCP/UDP Port	Used for accessing the VTO with devices in other networks.
HTTP Port	You can now enter http://VTO IP address: HTTP Port to log in to the VTO.
HTTPS Port	You can now enter https://VTO IP address: HTTPS Port to log in to the VTO.

Step 3 Click **Apply**.

9.3 SIP Server

There must be a SIP server in the network for all connected VTOs and VTHs to call each other. You can use a VTO or other servers as the SIP server.

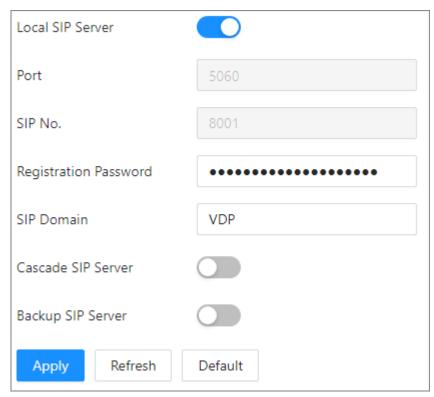
Procedure

- **Step 1** Select **Network Settings** > **SIP Server**.
- Step 2 Select a server type.
 - The VTO you have logged in as the SIP server: Enable **Local SIP Server**, and then configure the parameters for the VTO.

 \square

Some parameters would become grey after enabling the **Local SIP Server** function.

Figure 9-3 Current VTO as SIP server



• If another VTO works as the SIP server: Select the SIP type as **Device**, and then configure the parameters for the VTO working as the SIP.



If the VTO you have logged in does not work as the SIP server, do not enable **Local SIP Server**. Otherwise, the connection would fail.

Figure 9-4 Another VTO as SIP server

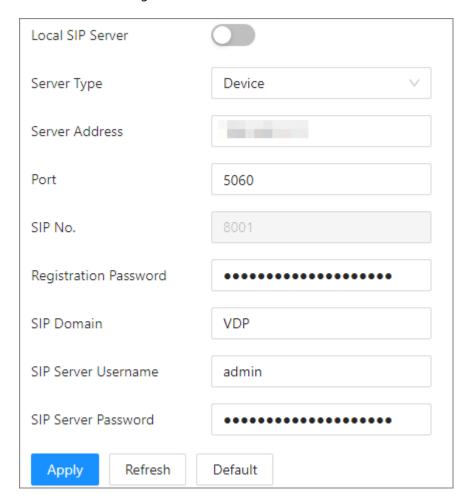


Table 9-3 SIP server configuration (VTO as the SIP server)

Parameter	Description
Server Address	Planned IP address of the VTO.
Port	5060 by default.
SIP No.	VDP by default. Leave it as default.
Registration Password	
SIP Domain	
SIP Server Username	Username and password used to log into the webpage of the SIP server.
SIP Server Password	

• The DSS platform works as the SIP server: Set **Private SIP Server** as **Server Type**, and then configure the parameters.

Figure 9-5 Private SIP server

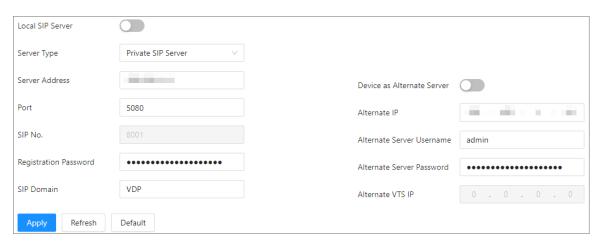


Table 9-4 SIP server description (platform as the SIP server)

Parameter	Description	
Server Address	IP address of the SIP server.	
Port	5080 by default when the platform works as the SIP server.	
SIP No.		
Registration Password	Leave it by default.	
SIP Domain	1	
Device as Alternate Server	Enable it so that you can configure the Alternate VTS IP.	
	The alternate server will be used as the SIP server when Express or DSS stops responding. We recommend you configure the alternate IP address.	
Alternate IP	 If you enable Device as Alternate Server, the current VTO you have logged in serves as the alternate server. If you want another VTO serve as the alternate server, you need to enter the IP address of that VTO in the Alternate IP textbox. Do not enable Device as Alternate Server in this case. 	
Alternate Server Username/ Password	Used to log in to the alternate server.	
Alternate VTS IP	IP address of the alternate VTS.	

Step 3 Click **Apply**.



- For some third-party servers, if the intercom selects two unlocking methods of the RFC 2833 and SIP INFO at the same time, the unlocking code will not available to unlock the intercom.
- When a third-party server is used to support a third-party intercom, the intercom exception or SIP offline may occur on some servers.

- If Third-party Server-Asterisk and SIP Intercom select two unlocking methods of the RFC 2833 and SIP INFO at the same time, the unlocking code will not available to unlock the intercom.
- If IB intercom frequently disconnects from the 3CX server, the mapping relationship needs to be deleted.

9.4 Second Confirmation Station Cascading

It applied to the situation when the second confirmation station cascades to the VTH.

Prerequisites

The software version of the VTH must be V4.7 and later.

Procedure

- <u>Step 1</u> Select **Network Settings** > **SIP Server**.
- Step 2 Configure the second confirmation station information in **Local Device Config** > **Basic Settings**.

The device type should be set as **Second Confirmation Station**.

<u>Step 3</u> Set **Server Type** as **Device**, and then configure the parameters.

In this cascading situation, the VTH works as the SIP server.

Figure 9-6 SIP server configuration (VTH as the SIP server)

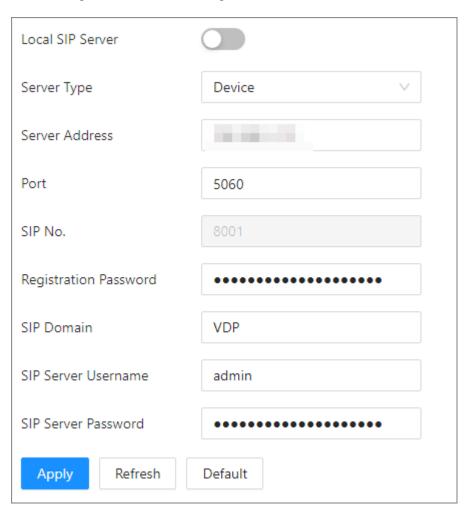


Table 9-5 SIP server configuration description (VTH as the SIP server)

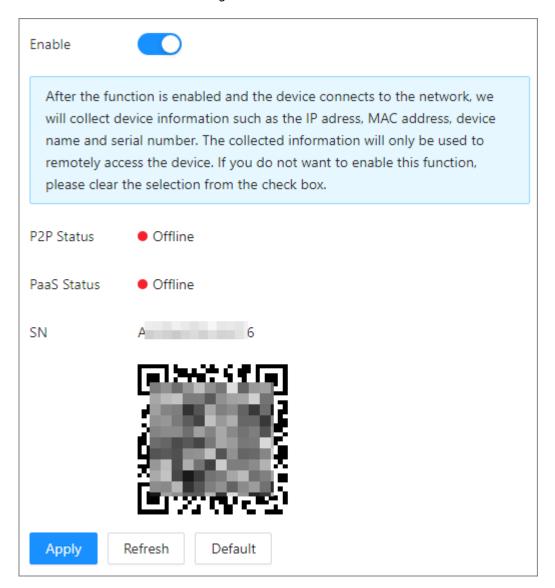
Parameter	Description
Server Address	Your planned IP address of the VTH.
Port	5060 by default.
SIP No.	Leave it as default.
Registration Password	
SIP Domain	
SIP Server Username	Username and password used to log into the VTH that serves a the SIP server.
SIP Server Password	

Step 4 Click **Apply**.

9.5 Cloud Service

Enable the **Cloud Service** function, and then you can scan the QR code with your phone to add the VTO to the app on your phone.

Figure 9-7 Cloud service



9.6 Wi-Fi

If the VTO supports Wi-Fi function, then configure the parameters here.

Procedure

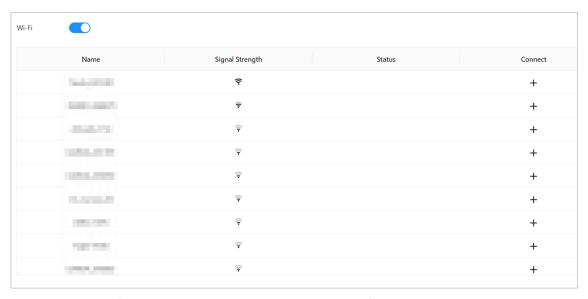
Step 1 Log in to the webpage of the VTO.

Select **Network Settings** > **Wi-Fi**.

Step 3 Set the **Wi-Fi** status as **On**.

All the networks available are displayed.

Figure 9-8 Wi-Fi



Step 4 Click + of the Wi-Fi you chose, enter the password of it, and then connect to the network.

9.7 Basic Services

Configure functions that involve device security.

- **Step 1** Select **Network Settings** > **Basic Services**.
- <u>Step 2</u> Enable the security functions based on your needs.

Figure 9-9 Basic services

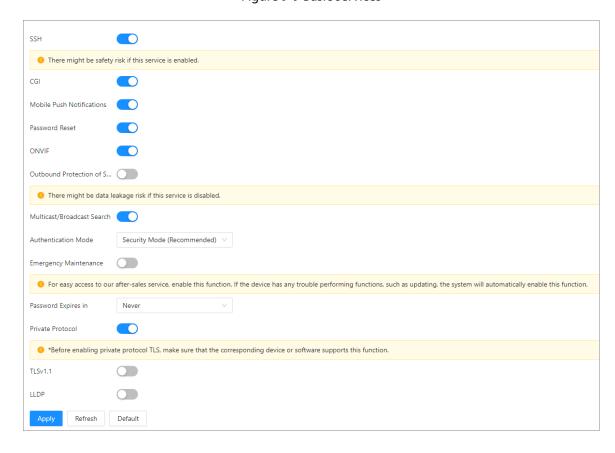


Table 9-6 Security parameter description

Parameter	Description
SSH	A secure alternative to unsecured remote protocols.
	We recommend you turn it off because there might be safety risk if this service is enabled.
CGI	The use of CGI command.
	We recommend you turn it off. Otherwise, the VTO might be exposed to security risks and data leakage.
Mobile Push	Send information to the app on the phone.
Notification	We recommend you turn it off if you do not need this function. Otherwise, the VTO might be exposed to security risks and data leakage.
Password Reset	If turned off, you will not be able to reset password.
ONVIF	Allows the communications between devices of the different brand or series.
	Protect your passwords.
Outbound Protection	
of Service Information	We recommend you turn it on. Otherwise, the VTO might be exposed to security risks and data leakage.
	Enable it so that the VTO will be found by other devices.
Multicast/Broadcast	
Search	We recommend you turn it off. Otherwise, the VTO might be exposed to security risks and data leakage.
	Security Mode (recommended): Support logging in with Digest authentication.
Authentication Mode	• Compatibility Mode: Use the old login method.
	We recommend you use the security mode. Compatible mode might expose the VTO to security risks and data leakage.
Emergency Maintenance	For easy access to our after-sales service, enable this function. If the device has any trouble performing functions, such as updating, the system will automatically enable this function.
Password Expires in	 Select an expiration period from 30 days, 60 days, 90 days, 180 days, Custom and Never. If you select Custom, you need to configure an expiration day between 0 and 180.

Parameter	Description	
Private Protocol	Before enabling private protocol TLS, make sure that the corresponding device or software supports this function.	
TLSv1.1		
	We recommend you turn it off because there might be safety risk if this service is enabled.	
LLDP	Improves the efficiency of information exchange among network devices.	

Step 3 Click **Apply**.

9.8 Auto Registration

VTO automatically registers on the server, and reports its IP address to the designated server.

- Step 1 Log in to the webpage of VTO.
- <u>Step 2</u> Select **Network Settings** > **Auto Registration**.
- <u>Step 3</u> Enable the function. Enter the server address, port number and registration ID.

Figure 9-10 Auto registration

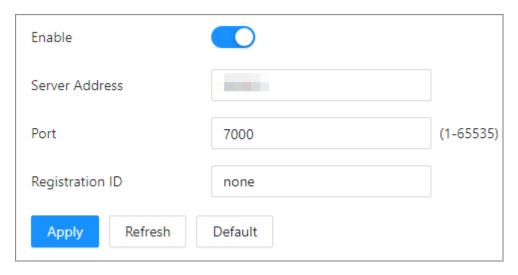


Table 9-7 Parameters description

Parameter	Description	
Server Address	IP address or domain name of the server that is needed in registration.	
Port	Port number that the server automatically registers.	
Registration ID	The server distributes an ID for the device. Keep consistent with the ID registered on the server.	

Step 4 Click **Apply**.

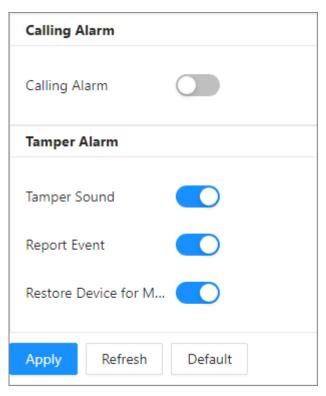
10 System

10.1 Alarm

Procedure

Step 1 Select **System** > **Alarm**.

Figure 10-1 Alarm



Step 2 Configure the parameters, which will take effect upon change.

Table 10-1 Alarm parameter description

Parameter	Description
Calling Alarm	When the call is initiated, the alarm output will be linked. If the alarm out interface is connected with a buzzer, it will beep.
Tamper Sound	Configure whether the device whistles locally or not. It is enabled by default.
Report Event	Configure whether the device reports the tamper alarm to the APP, indoor unit, and backend of the platform or not. It is enabled by default.
Restore Device for Multiple Tamper Alarms	Within 10 minutes after the device is powered on, if you continuously press the tamper button for 5 times in 8 seconds, the device beeps and deletes the account information.

Step 3 Click **Apply**.

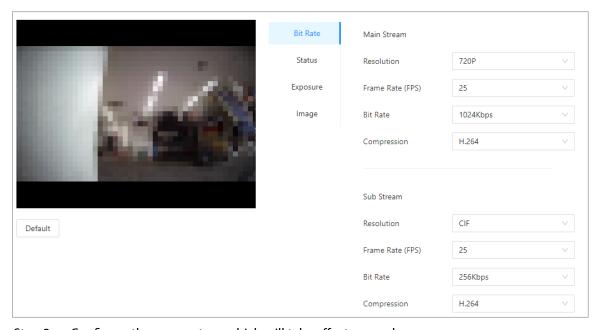
10.2 Video

Configure the video format and quality, and audio of the VTO.

Procedure

Step 1 Select **System** > **Video**.

Figure 10-2 Video



<u>Step 2</u> Configure the parameters, which will take effect upon change.

Table 10-2 Video parameter description

Parameter			Description		
Bit Rate Main		Resolution	 720P: 1280 × 720. WVGA: 800 × 480. D1: 704 × 576. CIF: 352 × 288. 		
	Main Stream	Frame Rate (FPS)	 If select the Video Standard as PAL: The range is 1 to 25. If select the Video Standard as NTSC: The range is 1 to 30. The larger the value, the smoother the video, but it requires more bandwidth. 		
		Bit Rate	The larger the value, the better the video quality, but it requires more bandwidth.		
		Compression	Compared with H.264, H.265 requires smaller bandwidth.		

Parameter			Description		
	Resolution	 1080P: 1920 × 1080. 720P: 1280 × 720. WVGA: 800 × 480. QVGA: 320 × 240. D1: 704 × 576. CIF: 352 × 288. 			
	Sub Stream	Frame Rate (FPS)	The range is 1 to 25. The larger the value, the smoother the video, but it requires more bandwidth.		
		Bit Rate	Include 224 Kbps, 256 Kbps, 320 Kbps, 384 Kbps, 448 Kbps, 512 Kbps, 640 Kbps, 768 Kbps. The larger the value, the better the video quality, but it requires more bandwidth.		
		Compression	H.264.		
		Compression	H.265.		
	Scene Mode		Select from Auto , Disable , Sunny and Night . Auto is selected by default.		
Status	Compensation Mode		 BLC: Back light compensation. Improve the clarity of the target in the image. WDR: Wide dynamic range. Enhance the brightness of dark areas, and reduce the brightness of bright areas to improve the image. HLC: High light compensation. Reduce the brightness of the strong spots to improve the overall image. Disable: Do not use any compensation mode. 		
	Day/Night		Select from Color , Auto and B/W .		
	Video Standard		Select PAL or NTSC according to your area.		
	Sign Light		Configure the sign light.		
Exposure	Anti-flicker		 50Hz: The system adjusts the exposure according to ambient light automatically to ensure that stripes do not appear. 60Hz: The system adjusts the exposure according to ambient light automatically to ensure that stripes do not appear. Outdoor: If you select Outdoor, the exposure mode can be set to Gain Priority, Shutter Priority and Iris Priority. Different devices support different exposure modes. 		

Parameter		Description	
	Exposure Mode	 Auto: Exposure is automatically adjusted according to scene brightness if the overall brightness of images is in the normal exposure range. Manual: You can adjust the Gain and Shutter value manually. Shutter Priority: The camera automatically adjusts the aperture size based on the selected shutter speed to ensure proper exposure. 	
	Exposure Compensation	You can set the exposure compensation value. The value ranges from 0 to 100. The higher the value is, the brighter the image will be.	
	3D NR	Reduce the noise of multiple-frame (at least two frames) images by using inter-frame information between two adjacent frames in a video. The higher the level is, the lower the noise will be, and the larger the trailing smear will be.	
	NR Level	Noise reduction grade. The value ranges from 0 to 100. The larger the value is, the less the noise will be.	
	Brightness	The larger the value, the brighter the image.	
	Contrast	Larger value for more contrast between bright and dark areas.	
	Hue	Make the color brighter or darker. The default value is made by the light sensor, and we recommend keeping it default.	
Image	Saturation	The larger the value, the thicker the color.	
	Mirror	Display the image with left and right side reversed.	
	Flip	Display the image upside down.	
	Display Time	Display the current time and date on the video image.	

Related Operations

Click **Default** to restore to default configurations.

10.3 Audio

Procedure

Step 1 Select **System** > **Audio**.

<u>Step 2</u> Configure the parameters, which will take effect upon change.

Figure 10-3 Audio

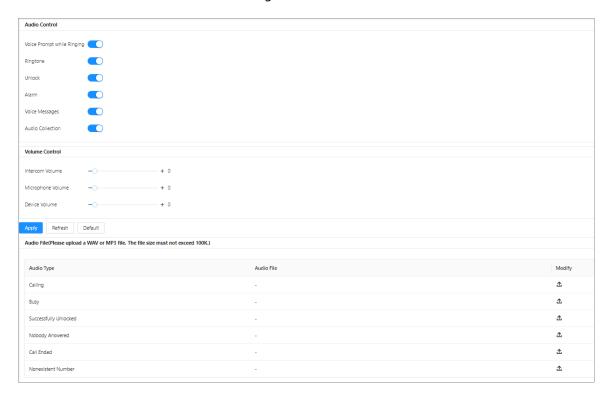


Table 10-3 Audio parameter description

Parameter		Description	
	Voice Prompt while Ringing	Turn on or off each type of sound.	
Audio Control	Ringtone		
	Alarm		
Addio Control	Voice Messages		
	Unlock		
	Audio Collection		
	Microphone Volume	Adjust the microphone volume of the VTO. The higher the value is, the higher the volume will be.	
Volume Control	Intercom Volume	Adjust the speaker volume. The higher the value is, the higher the volume will be.	
	Device Volume	Adjust the device volume. The higher the value is, the higher the volume will be.	

Step 3 Click **Apply**.

Step 4 (Optional) Upload audio file by clicking and nonexistent number). • next to the corresponding audio type (including calling, busy, successfully unlocked, nobody answered, call ended and nonexistent number).



Please upload a WAV or MP3 file. The file size must not exceed 100K.

10.4 Time

Configure the time zone and day light saving parameters.

Procedure

Step 1 Select **System** > **Time**.

<u>Step 2</u> Configure the time and time zone and DST.

Figure 10-4 Time

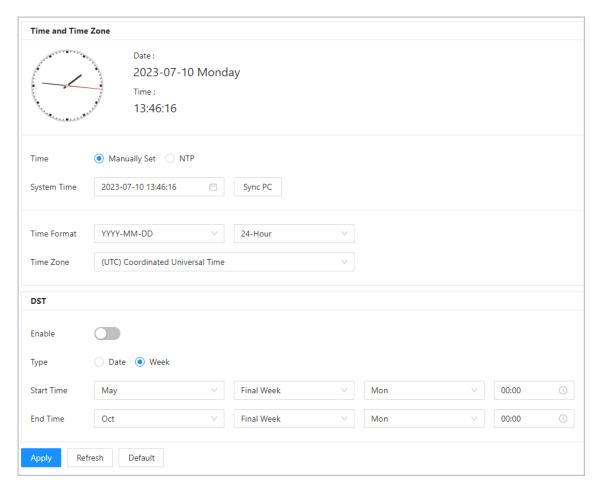


Table 10-4 Parameter description

Module	Parameter	Description
Time and Time Zone	Time	Manually SetNTP

Module	Parameter	Description
		The time of the VTO system.
	System Time	Changing system time might cause problems on video searching and information publication. Turn off video recording and auto snapshot before changing it.
		Only applicable in the Manually Set mode.
	Sync PC	Synchronize the VTO system time with your PC.
		Only applicable in the Manually Set mode.
	Server	The address of the NTP server.
		Only applicable in the NTP mode.
	Manual Update	Click the icon and the device time of the VTO will be automatically synchronized with server.
		Only applicable in the NTP mode.
	Port	NTP server port number.
		Only applicable in the NTP mode.
	Interval	VTO time update cycle. 30 minutes at most.
		Only applicable in the NTP mode.
	Time Format	For the date format, select from one of the following: YYYY-MM-DD MM-DD-YYYY DD-MM-YYYY
		For the time format, select from one of the following:
		24-Hour12-Hour
	Time Zone	Select the time zone for the VTO system.
	Enable	Click to enable the DST function.
DST	Туре	Select Date or Week as needed, and then configure the specific period.
	Start Time	Configure the start time and end time of DST.
	End Time	comigate the start time and that time of D31.

10.5 ONVIF User

Add accounts for devices to monitor the VTO through the ONVIF protocol.



Only Profile C and Profile S are supported, while the encoding format and image parameters are not supported.

Procedure

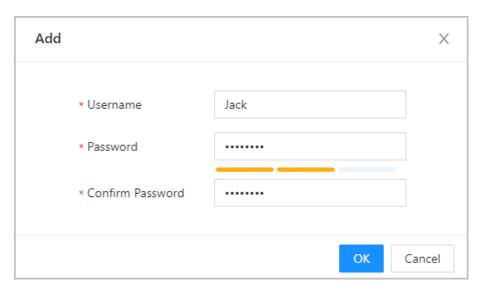
Step 1 Select **System** > **ONVIF User**.

Step 2 Click **Add**.

Step 3 Enter the information, and then click **OK**.

ONVIF devices can monitor the VTO by using the account.

Figure 10-5 ONVIF user



11 Maintenance Center

11.1 One-Click Diagnosis

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

Procedure

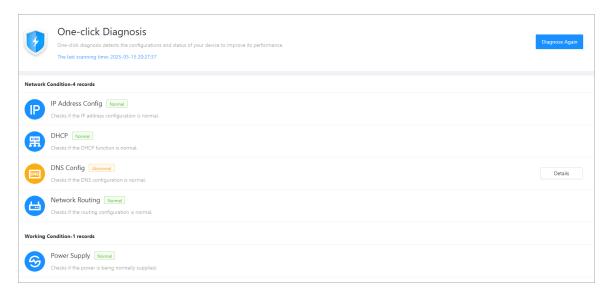
- Step 1 Log in to the webpage.
- <u>Step 2</u> Select **Maintenance Center** > **One-click Diagnosis**.
- Step 3 Click **Diagnose**.

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

<u>Step 4</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 11-1 One-click diagnosis



11.2 System Information

11.2.1 Version Information

- Step 1 Select Maintenance Center > System Info > Version.
- <u>Step 2</u> View the software version, SCM version and security baseline version.

Figure 11-2 System information

Device Model	VTO3312Q-P
Device SN	Α 5
Hardware Version	V1.00
Software Version	2025-05-23 V4.800.000001.0.R
Web Version	V5.011.0.250522.2490186
Security Baseline Version	V2.4

11.2.2 Legal Information

Select **Maintenance Center** > **System Info** > **Legal Info**. You can view related legal information notices in this section.

11.3 Data Capacity

You can see how many users, cards and face images that the VTO can store.

Log in to the webpage and select **Maintenance Center** > **Data Capacity**.

11.4 Log Management

Select **Maintenance Center** > **Log**. You can search for different logs, and export them to your local computer.

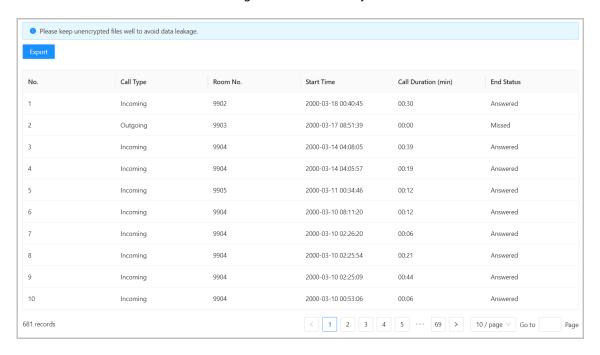


If storage is full, the oldest records will be overwritten. Back up the records in time.

11.4.1 Call History

Select Maintenance Center > Log > Call History.

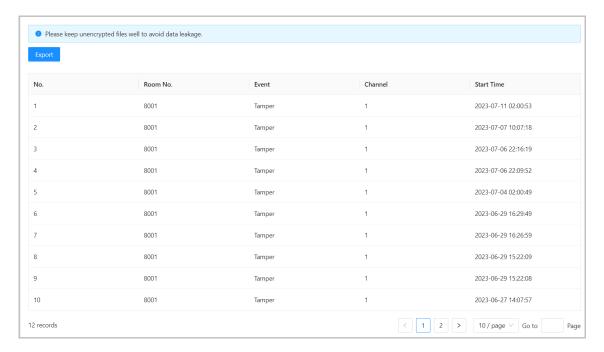
Figure 11-3 Call history



11.4.2 Alarm Logs

Select Maintenance Center > Log > Alarm Logs.

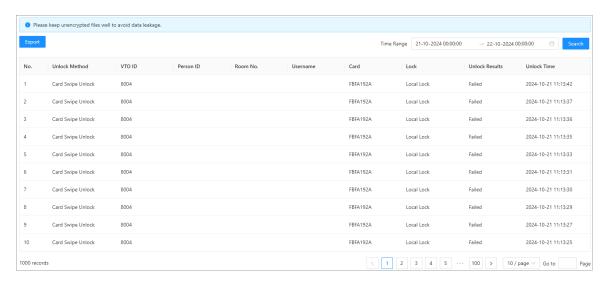
Figure 11-4 Alarm



11.4.3 Unlock Records

Select Maintenance Center > Log > Unlock Records.

Figure 11-5 Unlock Records

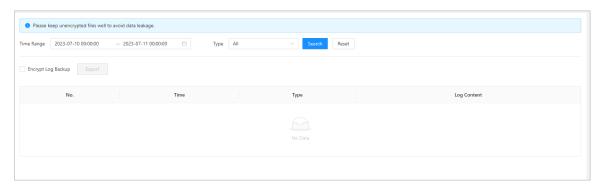


11.4.4 Log

Select Maintenance Center > Log > Log.

Select time range and type, and then you can see all the log information.

Figure 11-6 Log



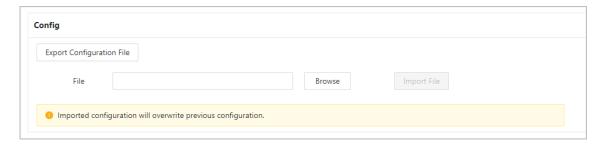
11.5 Maintenance Management

11.5.1 Config

You can export and import the configuration file.

- <u>Step 1</u> Select Maintenance Center > Maintenance Management > Config.
- Step 2 Click **Export Configuration File**, or click **Browse** to select the file from local computer, and then click **Import file**.

Figure 11-7 Config

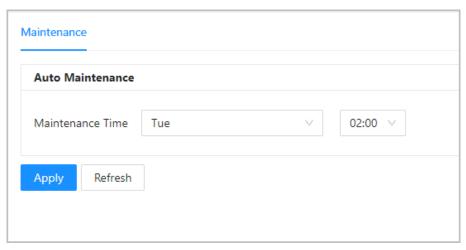


11.5.2 Maintenance

Procedure

- <u>Step 1</u> Select Maintenance Center > Maintenance Management > Maintenance.
- <u>Step 2</u> Configure the auto maintenance time.

Figure 11-8 Auto maintenance

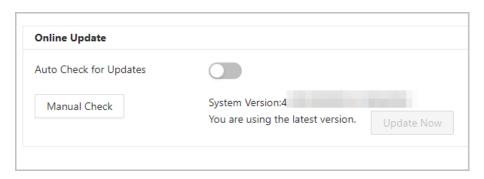


Step 3 Click **Apply**.

11.6 Update

- **Step 1** Select **Maintenance Center** > **Update**.
- Step 2 Select ways to check the update.
 - File Update: Click Browse to add the updating file, and then click Update.
 - Online Update
 - ◆ **Auto Check for Updates**: Enable the function to check automatically whether there is a new system version.
 - ♦ **Manual Check**: Select the function to check whether there is a new system version.

Figure 11-9 Online update



11.7 Advanced Maintenance

Export

Select **Maintenance Center** > **Advanced Maintenance** > **Export** to export the serial number, firmware version, device operation logs and configuration information.

Packet Capture

- 1. Select Maintenance Center > Advanced Maintenance > Packet Capture.
- 2. Enter the port of the device.
- 3. Click ▶ to start the packet sniffer backup.

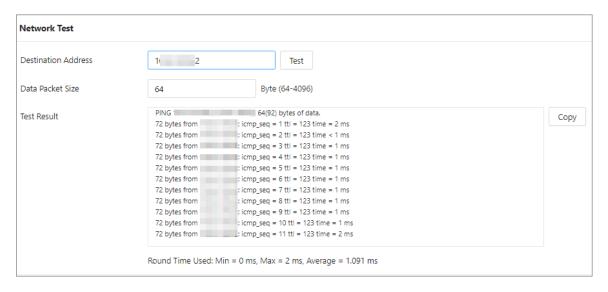
Figure 11-10 Packet capture



Network Test

- 1. Select Maintenance Center > Advanced Maintenance > Packet Capture.
- 2. In the **Network Test** area, test the network as needed.
 - a. Enter the destination address in the box, and then click Test.
 - b. After you acquired enough data, click **Stop**, and then you can view the test result in the following box.
 - c. Click **Copy** to copy the test result.

Figure 11-11 Test network

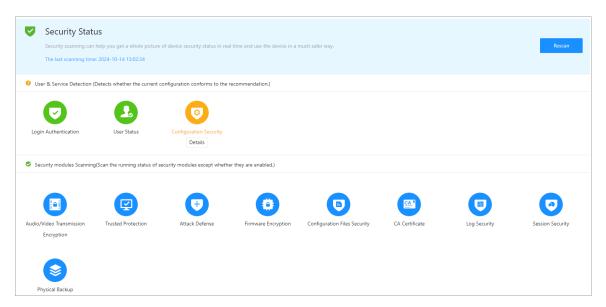


12 Security Management

12.1 Security Status

On the home page, click , and then select **Security Status**.

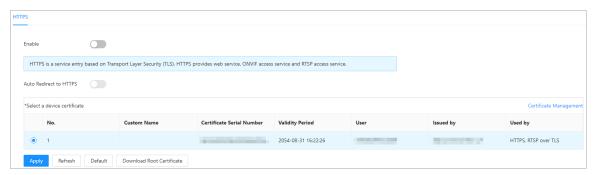
Figure 12-1 Security status



12.2 System Service

- Step 1 On the home page, click, and then select **System Service**.
- Step 2 Select a device certificate, and then enable the HTTPS function.

Figure 12-2 System service



Step 3 Click **Apply**.

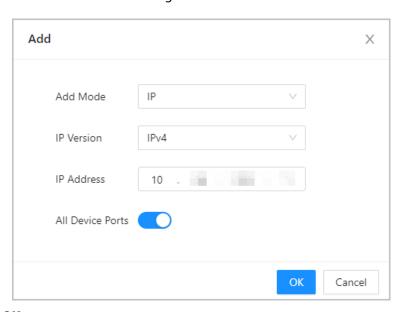
12.3 Attack Defense

12.3.1 Firewall

You can enable different firewall types to control network access to the VTO. **Procedure**

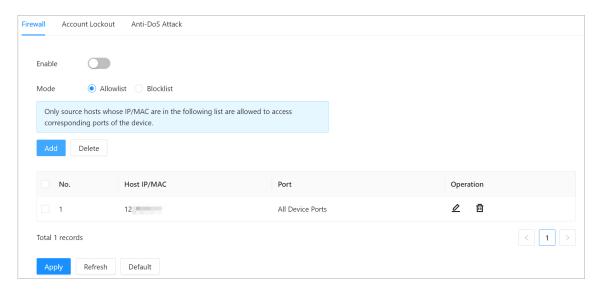
- <u>Step 1</u> On the home page, click and then select **Attack Defense** > **Firewall**.
- Step 2 Click next to **Enable**.
- Step 3 Select the **Mode** as either **Allowlist** or **Blocklist**.
 - Allowlist: Devices that have been granted an access.
 - Blocklist: Devices that have been forbidden an access.
- <u>Step 4</u> Click **Add** to add the IP address for allowlist or blocklist.

Figure 12-3 Add



- Step 5 Click **OK**.
- <u>Step 6</u> Select an added IP address for allowlist or blocklist, and then click **Apply**.

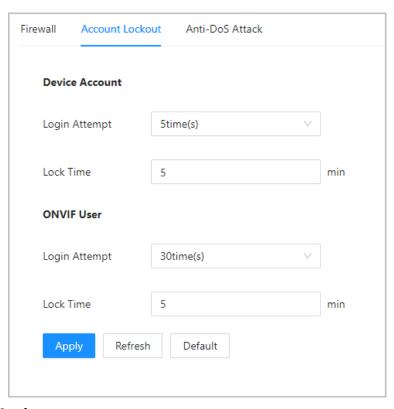
Figure 12-4 Apply



12.3.2 Account Lockout

- Step 1 On the home page, click and then select **Attack Defense** > **Account Lockout**.
- <u>Step 2</u> Configure the login attempts and lock time for device account and ONVIF user.

Figure 12-5 Account lockout



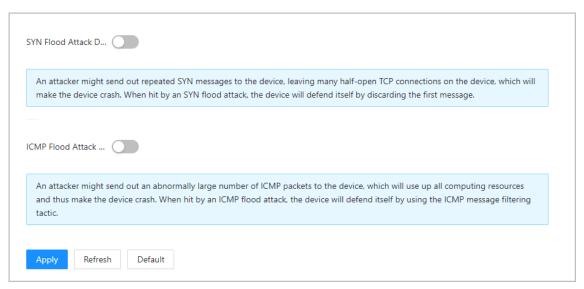
Step 3 Click **Apply**.

12.3.3 Anti-DoS Attack

Procedure

- Step 1 On the home page, click and then select **Attack Defense** > **Anti-DoS Attack**.
- <u>Step 2</u> Enable or disable the **SYN Flood Attack Defense** or **ICMP Flood Attack Defense** function.

Figure 12-6 Anti-DoS attack



Step 3 Click **Apply**.

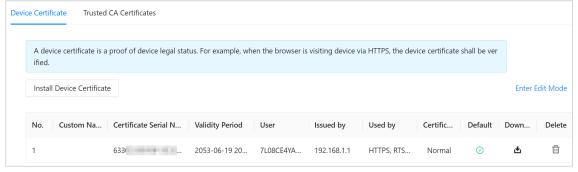
12.4 CA Certificate

Procedure

Step 1 On the home page, click and then select **CA Certificate**.

Device Certificate

Figure 12-7 Device certificate



Trusted CA Certificates

Figure 12-8 Trusted CA certificates

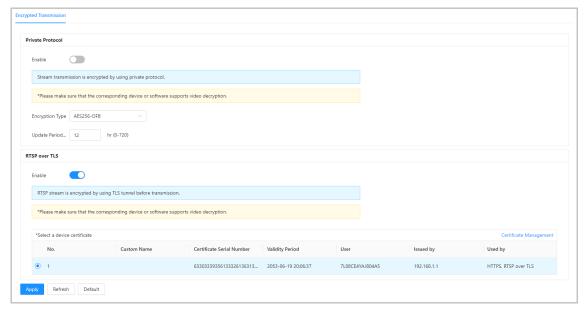


12.5 Video Encryption

Procedure

- <u>Step 1</u> On the home page, click and then select **Video Encryption**.
- <u>Step 2</u> Configure **Private Protocol** and **RTSP over TLS** parameters.

Figure 12-9 Video encryption

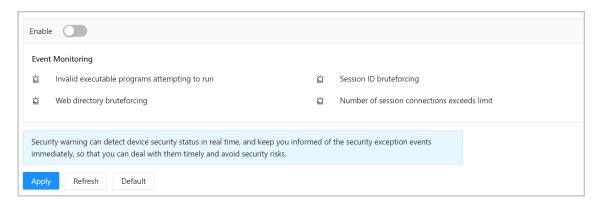


Step 3 Click **Apply**.

12.6 Security Warning

- Step 1 On the home page, click and then select **Security Warning**.
- <u>Step 2</u> Enable event monitoring function, and then click **Apply**.

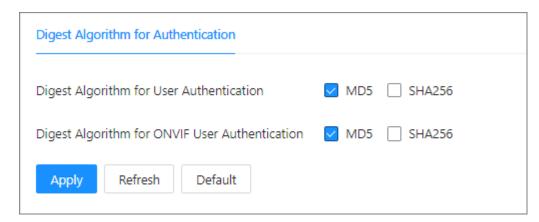
Figure 12-10 Security warning



12.7 Security Authentication

- <u>Step 1</u> On the home page, click and then select **Security Authentication**.
- <u>Step 2</u> Configure the digest algorithm for authentication, and then click **Apply**.

Figure 12-11 Security authentication



13 Button Model Configuration

The button model can be connected to the VTH to work as an alarm input button. Press the button on the front panel of the model, and then the VTH receives an alarm signal.

13.1 Cable Connection

Connect the KEY port of the button model to any one of the alarm input ports of the indoor monitor (VTH) with a cable thread.

Figure 13-1 Button model

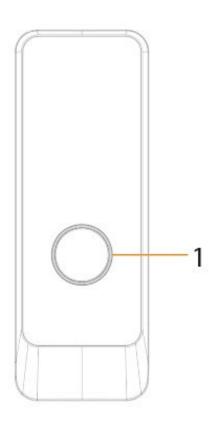
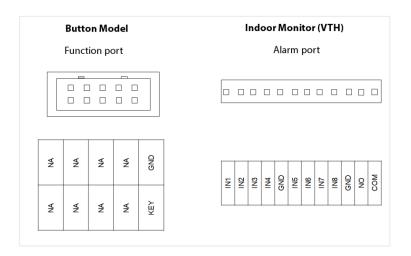


Table 13-1 Component

No.	Name	Function
1	Press button	The button model can be connected to the VTH. Press the button on the model and the VTH receives an alarm signal.

Figure 13-2 Cable connection



13.2 VTH Configuration

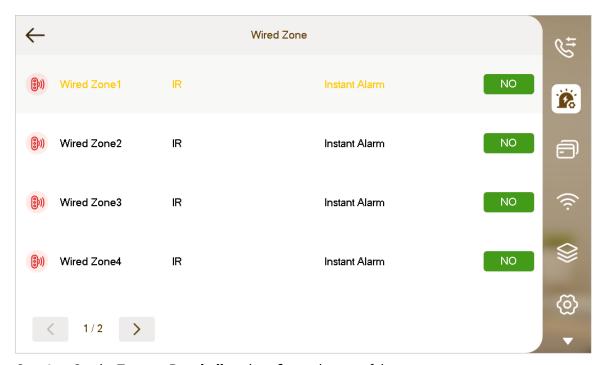
After completing cable connection, you need to set the **wired zone type** as **Doorbell** on the VTH to receive alarm signals once you press the button model.

Procedure

Step 1 Power on the VTH.

<u>Step 2</u> Select **Setting** > **Alarm** > **Wired Zone** on the VTH.

Figure 13-3 Wired zone setting



<u>Step 3</u> Set the **Type** as **Doorbell**, and configure the rest of the parameters.

Table 13-2 Parameter description

Parameter	Description			
Area	The number cannot be modified.			
NO/NC	Select NO (normally open) or NC (normally closed) according to detector type. It must be the same as detector type.			
Туре	Select corresponding type according to de	etector type.		
Status	 Instant Alarm: After armed, if an alarm is triggered, the device produces siren at once and enters alarm status. Delay Alarm: After armed, if an alarm is triggered, the device enters alarm status after a specified time, during which you can disarm and cancel the alarm. Bypass: Alarm will not be triggered in the area. After disarmed, this area will restore to normal working status. Remove: The area is invalid during arm/disarm. 24 Hour: Alarm will be triggered all the time in the area regardless of arm or disarm. A zone in Remove status cannot be bypassed.			
Enter Delay	After entering delay, when armed area triggers an alarm, entering armed area from non-armed area within the delay time period will not lead to linkage alarm. Linkage alarm will be produced if delay time comes to an end and it is not disarmed.			
Exit Delay	After arm, Delay Alarm area will enter arm status at the end of Exit Delay . If multiple areas set the exit delay, screen prompt will conform to maximum delay time.	Delay is only valid to the areas of Delay Alarm .		

Appendix 1 Security Recommendation

Account Management

1. Use complex 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: 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 repeating characters, such as 111, aaa, etc.

2. Change passwords periodically

It is recommended to periodically change the device password to reduce the risk of being guessed or cracked.

3. Allocate accounts and permissions appropriately

Appropriately add users based on service and management requirements and assign minimum permission sets to users.

4. Enable account lockout function

The account lockout function is enabled by default. You are advised to keep it enabled to protect account security. After multiple failed password attempts, the corresponding account and source IP address will be locked.

5. Set and update password reset information in a timely manner

The device supports password reset function. To reduce the risk of this function being used by threat actors, if there is any change in the information, please modify it in time. When setting security questions, it is recommended not to use easily guessed answers.

Service Configuration

1. Enable HTTPS

It is recommended that you enable HTTPS to access web services through secure channels.

2. Encrypted transmission of audio and video

If your audio and video data contents are very important or sensitive, it is recommended to use encrypted transmission function in order to reduce the risk of your audio and video data being eavesdropped during transmission.

3. Turn off non-essential services and use safe mode

If not needed, it is recommended to turn off some services such as SSH, SNMP, SMTP, UPnP, AP hotspot etc., to reduce the attack surfaces.

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

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

4. Change HTTP and other default service ports

It is recommended that you change the default port of HTTP and other services to any port between 1024 and 65535 to reduce the risk of being guessed by threat actors.

Network Configuration

1. Enable Allow list

It is recommended that you turn on the allow list function, and only allow IP in the allow list to access the device. Therefore, please be sure to add your computer IP address and supporting device IP address to the allow list.

2. MAC address binding

It is recommended that you bind the IP address of the gateway to the MAC address on the device to reduce the risk of ARP spoofing.

3. Build a secure network environment

In order to better ensure the security of devices and reduce potential cyber risks, the following are recommended:

- Disable the port mapping function of the router to avoid direct access to the intranet devices from external network;
- According to the actual network needs, partition the network: if there is no communication demand between the two subnets, it is recommended to use VLAN, gateway and other methods to partition the network to achieve network isolation;
- Stablish 802.1x access authentication system to reduce the risk of illegal terminal access to the private network.

Security Auditing

1. Check online users

It is recommended to check online users regularly to identify illegal users.

2. Check device log

By viewing logs, you can learn about the IP addresses that attempt to log in to the device and key operations of the logged users.

3. Configure network log

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

Software Security

1. Update firmware in time

According to the industry standard operating specifications, the firmware of devices needs to be updated to the latest version in time in order to ensure that the device has the latest functions and security. If the device is connected to the public network, it is recommended to enable the online upgrade automatic detection function, so as to obtain the firmware update information released by the manufacturer in a timely manner.

2. Update client software in time

It is recommended to download and use the latest client software.

Physical Protection

It is recommended that you carry out physical protection for devices (especially storage devices), such as placing the device in a dedicated machine room and cabinet, and having access control

and key manag other peripher	gement in place t al equipment (e.ç	o prevent una g. USB flash dis	uthorized pers k, serial port).	onnel from da	maging hardv	vare an