# **Villa Door Station**

# User's 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 categorized signal words with defined meaning might appear in the manual.

Signal Words	Meaning
	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.
	Indicates a potential risk which, if not avoided, could result in property damage, data loss, lower performance, or unpredictable result.
© <u></u> TIPS	Provides methods to help you solve a problem or save you time.
	Provides additional information as the emphasis and supplement to the text.

### **Revision History**

Version	Revision Content	Release Date
V1.0.3	Revised "Important Safeguards and Warnings".	December 2022
V1.0.2	Revised facade layout description.	November 2022
V1.0.1	Revised room number configuration in facade	June 2022
V1.0.1	layout module.	
V1.0.0	First release.	December 2021

### **Privacy Protection Notice**

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

### About the Manual

• The manual is for reference only. Slight differences might be found between the manual and the

product.

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

### **Operation Requirements**

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- 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.

### Installation Requirements

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- 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.

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- 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.

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# 1 Initializing the VTO

You can initialize the VTO on the web or through DMSS app, depending on which network connection your model support.

Network Connection	Initialization Through Web	Initialization Through DMSS App
Wi-Fi connection	No	Yes
Wired connection	Yes	Yes

Table 1-1 Initialization type

## 1.2 Web

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

<u>Step 1</u> Power on the VTO.

 $\square$ 

<u>Step 2</u> 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. Figure 1-2 Device initialization

Device Init			×
1	2	3	
One	Тwo	Three	
Usernam	e admin		
Passwor	d		
l	Low Middle	High	
Confirm Passwor	d		
	Next		
	Next		

<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 ' " ; : &).

Figure 1-3 Set an email address

Device Init				×
	One	2 Two	3 Three	
	Email	1992 1046 1, 111		
		Next		



Step 5 Click Next.





<u>Step 6</u> 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 web page.

#### Figure 1-5 Login page

L	WEB SERVICE2.0
	Username admin
	Password
	Forget Password?
	Login

# 1.3 DMSS APP

If your model only supports Wi-Fi connection to the network, you can only initialize the VTO on the DMSS app. For detailed operation of the app, refer to its User's Manual.

#### Prerequisites

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

### Operations

- <u>Step 1</u> 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.

 $\square$ 

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.

You can add through scanning the QR code at the rear panel of the VTO.

- 3) The SN number of the VTO appears automatically, and then tap **Next**.
- 4) Select device type as **VTO**, and then the device information appears.
- 5) Tap View Reasons.



Figure 1-6 Add VTO to DMSS

- 6) Configure network by switch networking to **AP Configuration**, and then tap **Next**.
- 7) Connect your phone to the hotspot you just enabled on the VTO.
  - $\square$
  - The hotspot name is the SN number of your VTO.
  - The current page will move on to the next step automatically after connection.

#### Figure 1-7 AP configuration

<	Add Device	***	<	Add De	vice	
				-	-	
	0			WLAI	N	
				WLAN		
	•			6J06	≙ 奈	
				home-3	a 🕫	
	ke sure device is connected to able device hotspot.	power.		home-4	1.4	
				ase go to Wi-Fi sett phone, connect h )f , an page	otspot named d then return to t	
				phone, connect h	otspot named d then return to t	
Tap the u	upper right corner to change m	ietworking.	610	phone, connect h	lotspot named d then return to the	nis

- <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 1-8 Initialization

	Add Device		Cloud Update Configuration	
	ntee device safety, plea Isually, it will take 1 – 6		Cloud Access	0
Username			0.0407.00033	
admin Please enter devi	ice password.		Register device to Cloud to prepare f account to achieve cloud services su monitoring, device recording,talking, and device management.If P2P is no properly use functions such as interc	ich as remote alarm, cloud storage t enabled, you may no
		Ġ	Auto-check	0
Weak	Medium	Strong		
Please confirm th	ne device password	Ø	The system checks for update once a There will be system notification if ar Online update is a service that provid updates by cloud. Your device inform name, firmware version and device S	ny update is available. des you with firmware nation such as device
Email (Optional)	ipent.com		order to inform you about available fi information is only used to inform you	irmware updates. All
The email addres forget the device	is is used to receive the defa password.	ult password if you		

- <u>Step 5</u> 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 1-9 Wi-Fi connection

< Add Device ···	< Add Device		< Add Device	<	Add Device ···
	Please connect to a Wi-Fi hotspot near you or to o has a strong signal.	ne that Refresh	6		
WLAN	14,4532 5465 402	ð 🕈	0		
boine-1 홈 약 home-2 홈 약	100.001/001003	ð 📍	Wi-Fi Network		<b>(</b>
home-3 & *	31-046(8334	ô 🕈	CLOSER II		
home-8 & 9	A.4. 151	ð 📍	WI-Fi Password	6	
Searching available Wi-Fi nearby	050503-000005	ė 🕈	Dual band router fails to su		
	Report of Helio	ė 🕈			58
	E2Lowener.E3	ò 🕈			Connecting to the router
	1 805.0	ė 🕈			connecting to the roaden
	an canal reveal	ò 🕈			
	Sec. (0104)	ė 🕈			
	0ter				
			Next		Cancel Config

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

Figure 1-10 Configure device name

<	Add Device	Save
Device Name:		

<u>Step 7</u> View monitoring video from the camera on the VTO.

Figure 1-11 Monitor

<		activity.		
i hanin				
24314.12.20	10,52,62	(selation	147	
11	SD	Ľ	☆	
•		9		۵
Ē	Ala	arm Messa	ge	
_				
	N	lo content		
ŧ		arm Messa lo content		

# 2 Login and Resetting Password

## 2.1 Login

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

<u>Step 1</u> Go to the IP address of the VTO in the browser.

 $\square$ 

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 (**Network > Basic**) to avoid conflict.

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

<b>k</b>	WEB SERVICE2.0
	Username
	Password
	Forgot password?
	Login

#### Figure 2-1 Login

## 2.2 Resetting Password

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

Figure 2-2 Reset the password

Reset the password ( 2	//3)		×
Scan QR Code :		Note(For admin only) : Please use an APP to scan the left QR code to get special strings. And then send the strings to :	
Enter security code :	The security code will be delivered to :		
Cancel		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**.

- $\square$
- 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**.

# **3 Home Page**

### Figure 3-1 Home Page



Table 3-1	Home	page	introd	luction
	1 IOIIIC	puge	111100	action

No.	Function	Description		
1	General function	<ul> <li>Change the password and your email address.</li> <li>Go to the home page.</li> <li>Log out, restart the VTO or restore the VTO to factory settings.</li> <li>If you restore the VTO to factory settings, all data except external storage will be deleted. You can format the SD card to delete the data in it.</li> </ul>		
2	VTO information	View the information of the VTO and the system.		
3	System information	view the information of the vio and the system.		
4	Configuration manager	Export or import VTO configuration or user information.		
5	Function	Configure parameters for different functions.		

# **4** Local Settings

This chapter introduces the detailed configuration of the VTO.

 $\square$ 

Slight differences might be found in different models.

# 4.1 Basic Settings

## **4.1.1 Device Properties & Events**

- <u>Step 1</u> Select Local Settings > Basic.
- <u>Step 2</u> Configure the parameters.

#### Figure 4-1 Basic

WEB SERVICE2.0	☆ Local Settings	En Household Setting	Network	Search L	<b>og</b> English -
	Device Properties				
Video & Audio	Device Type Villa Station		Center Call No. 8888888		
Access Control Settings	Villa Call No. 9901		ing Center Period 00.00.00 ods in which Calls Setting can be Made	O - 23.59.59 O	
System	No. 8001 Group Call 🛃 Warming				
Update	Events				
Upload File	Storage Point SD C				
	Total SD Card Capacity 0				
Legal info	SD Used Capacity 0	M Format 1: Size 50) ward (1 () case cost ine recognised)			
	Auto Capture (Unlock) 🚫 OM	I 💿 OFF			
	Auto Capture (Calling) 🚫 ON	I 💿 OFF			
	Upload Video 🔄 ON Messages	I OFF			
	Auto Recording(Call) ON	i 💿 Off Multing regulitity to availat data hore			
					Save Refresh Default

Table 4-1 Basic parameter description

Parameter	Description
Device Type	Select Villa Station or Small Apartment.
Center Call No.	The default phone number for the management center is 888888, and you can set it to any number with up to 9 digits.
Device Name	When other devices are monitoring this VTO, the device name will appear on the monitoring image.
Calling Center Period	Time period in which the management center can be called. Configure the time and enable the function so that you will receive calls only in that perioed.

Parameter	Description			
Villa Call No.	Used to call VTHs.			
No.	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.			
Periods in which Calls	Configure the time if you only want to receive calls from VTH during a			
can be Made	specific period.			
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.			
Storage Point	SD card by default.			
Total SD Card				
Capacity	Displays the total and used capacity of the SD card. You can click <b>Format</b> to delete all the data in the SD card.			
SD Used Capacity				
Format				
Auto Capture	When the door is unlocked, the VTO will take two snapshots and save			
(Unlock)	them to the SD card.			
Auto Capture (Calling)	Take a snapshot and save it in the SD card of the VTO when the VTO is calling.			
Upload Video Messages	<ul> <li>When enabled:</li> <li>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.</li> <li>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.</li> <li>If no SD card is inserted in the VTH or VTO, no video message will be saved.</li> </ul>			
Auto Recording (Call)	Take recording when the VTO is in a call, and save the recording in the SD card of the VTO.			

Step 3 Click Save.

### 4.1.2 Facade Layout

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

#### Procedures

- <u>Step 1</u> Log in to the web page of the VTO.
- <u>Step 2</u> Select Local Settings > Basic.
- <u>Step 3</u> In the **Facade Layout** section, click the nameplates next to where you have installed the button, and then select the room number from the **Room List** you want to bind. For example, 9901.
  - $\square$
  - The VTH room numbers in the **Room List** are configured in **Household Setting** > **VTH Management**.

You need to configure the room number based on your installation 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 web page. 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 web page. Keep the above configuration rule when you install 2 buttons or 4 buttons on the VTO and configure the corresponding room numbers on the web page.

Figure 4-2 Fourth button installation



Figure 4-3 Configure the fourth nameplate

Facade Layout	
्र एएउ 	
	Confirm

Figure 4-4 Room list

Room List						×
0 101	780	860	9901	9902		
				Clear	Save	Cancel



Facade Layout	
• •	
9901	
ýçą	Confirm

<u>Step 5</u> Click **Confirm** to save all the settings.

### **Related Operations**

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.

# 4.2 Video & Audio

Configure the video format and quality, and audio of the VTO. <u>Step 1</u> Select **Local Settings** > **Video & Audio**.

### Figure 4-6 Video

WEB SERVICE2.0	Cocal Settings	B <sub>in</sub> Household Setting		Network	Search Log	English -	A ff 🕞-
Easic	Video	Audio					
Video & Audio		Main Stream			Sub Stream		
Access Control Settings 💙		Video Format	720P		Video Format Cal		
		Frame Rate			Frame Rate 25		
System		Bitrate Rate	2Mbps		Bitrate Rate 25640ps		
Security		Compression	11264		Compression 11264		
Onvil User		Status			Image		
		Scene Mode	Auto		Brightness		
Update		Compensation Mode	Disabled		Contrast		
Uploed File		Light Mode	Auto		Hue		
		Video Standard	PAL.		Saturation		
					Gamma		
					Mirror 🔘 ON 🔹 OFF		
					FEP 🔵 ON 📑 OFF		
					Display Time 🔹 ON ု OFF		
					1	Default	

### Figure 4-7 Audio

Basic	Video		Audio		
Video & Audio	Audio	Control		Volume Control	
Access Control Settings 💙	Voice Prompt Sound	Enable		Microphone Volume	
System	Ringback Sound			Speaker Volume 🚤 10	
	Unlock				
Security		Enable			
Onvif User	Leave Messages				
Update	Audio Collection	Enable			Detaut
Upload File					
Legal Info					

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

### Table 4-2 Video parameter description

Parameter	r	Description						
Main Stream	Video Format	<ul> <li>720P: 1280 × 720.</li> <li>WVGA: 800 × 480.</li> <li>D1: 720 × 480.</li> <li>CIF: 352 × 288.</li> </ul>						
	Frame Rate	The range is 1 to 25. The larger the value, the smoother the video but it requires more bandwidth.						
	Bitrate Rate	Include 768 Kbps, 896 Kbps, 1024 Kbps, 1.25 Mbps, 1.5 Mbps, 1.75 Mbps, 2Mbps and 4 Mbps. The larger the value, the better the video quality, but it requires more bandwidth.						
	Compression	<ul> <li>H.264.</li> <li>H.265.</li> <li>Compared with H.264, H.265 requires smaller bandwidth.</li> </ul>						
Sub Stream	Video Format	<ul> <li>1080P: 1920 × 1080.</li> <li>WVGA: 800 × 480.</li> <li>QVGA: 320 × 240.</li> <li>D1: 720 × 480.</li> <li>CIF: 352 × 288.</li> </ul>						

Paramete	r	Description						
	Frame Rate	The range is 1 to 25. The larger the value, the smoother the video, but it requires more bandwidth.						
	Bitrate 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	<ul> <li>H.264.</li> <li>H.265.</li> <li>Compared with H.264, H.265 requires smaller bandwidth.</li> </ul>						
	Scene Mode	Select from <b>Auto</b> , <b>Disabled</b> , <b>Sunny</b> and <b>Night</b> . <b>Auto</b> is selected by default.						
Status	Compensation Mode	<ul> <li>BLC: Back light compensation. Improve the clarity of the target in the image.</li> <li>WDR: Wide dynamic range. Enhance the brightness of dark areas, and reduce the brightness of bright areas to improve the image.</li> <li>HLC: High light compensation. Reduce the brightness of the strong spots to improve the overall image.</li> </ul>						
	Light Mode	Select from NO, NC, Auto and Scheduled.						
	Video Standard	Select <b>PAL</b> or <b>NTSC</b> according to your area.						
	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.						
	Saturation	The larger the value, the thicker the color.						
lmage	Gamma	Changes the picture brightness and improves the picture dynamic range in a non-linear way. The larger the value, the brighter the image.						
	Gain Adjustment	Amplify the video signal to increase image brightness. If the value is too large, there will be more noise in the image.						
	Mirror	Display the image with left and right side reversed.						
	Flip	Display the image upside down.						
	Display Time Voice Prompt Sound	Display the current time and date on the video image. Turn on or off each type of sound.						
Audio Control	Ringback Sound Alarm Leave Messages	Adjust the volume as needed.						

Paramete	r	Description
	Unlock	
	Audio	
	Collection	
Volume Control	Microphone	
	Volume	
Control	Speaker Volume	

# **4.3 Access Control Settings**

This section introduces how to configure the two locks connected to the lock port or the RS-485 port of the VTO.

### 4.3.1 Local



Figure 4-8 Local

VEB SERVICEZ.O	tocal Settings	5-	lousehold Setting	Network	Search Log	English -
Basic	Local					
Video & Audio	Unlock Responding Interval		Sec.			
Access Control Settings	Unlock Period		Sec.			
	Check Door Signal Before Lock		Sec.			
RS-485	First Unlock Command					
iystem	Door Contact Type					
iecunity	Door Sensor Enable	ON OFF	di.			
Jpdate					Save	Rokesh Default
Upload File						
Legal Info						

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

Parameter	Description						
Unlock Responding Interval	The door can only be unlocked again after the interval.						
Unlock Period	The time during which the lock stays unlocked.						
Check Door Signal Before Lock	Select <b>On</b> or <b>Off</b> as needed.						
	If the door is unlocked longer than the Door Sensor Check						
	Duration, the door sensor alarm will be triggered, and the alarm						
Door Sensor Check Duration	will be sent to the management center.						
	You need to install a door contact to configure this parameter.						
First Unlock Command	You can connect a third-party phone, such as a SIP phone, to						
	the VTO, and use the command to open the door remotely.						
Door Contact Type	NC: Normally closed.						

Table 4-3 Local access control	parameter description
--------------------------------	-----------------------

Description					
• <b>NO</b> : Normally open.					
Synchronize door sensor status to indoor monitors (VTHs).					
Local: Local lock.					
• Second lock: 485 lock.					
Select the <b>Lock</b> type to unlock the lock you select.					

#### Step 3 Click Save.

### 4.3.2 RS-485

Select **Local Settings** > **Access Control Settings**, and then configure the parameters of the lock connected through the RS-485 port.

Figure 4-9 Lock connected through the RS-485 port

WEB SERVICE2.0	<b>⇔Local Settings</b>	5. Househo	ld Setting	Network	Search Log	English -
Basic	RS-485					
Video & Audio	Interface Type	Lock 🛩				
Access Control Settings	Unlock Responding Interval					
	Unlock Period					
Local	Second Unlock Command					
	Lock	C Local 📄 Second Lock				
System					1 - 10 - 10 - 10 - 10	
					Save Ref	resh Default
Update						
Upload File						
Legal info						

Table 4-4 RS-485 description

Parameter	Description						
Interface Type	Lock by default.						
Unlock Responding Interval	The door can only be unlocked again after the interval.						
Unlock Period	The time during which the lock stays unlocked.						
	You can connect a third-party phone, such as a SIP phone, to						
Second Unlock Command	the VTO, and use the command to open the door remotely.						
	The default command is 456.						
	Select the <b>Lock</b> type to unlock the lock you select.						
Lock	• Local: Local lock.						
	• Second lock: 485 lock.						

## 4.4 System

Configure time parameters, NTP server, and more. <u>Step 1</u> Select **Local Settings** > **System**.

Figure 4-10 System

VEB SERVICE2.0	¢u	ocal Setting	js		8-	Hous	ehold S	etting				Network		Search Log	Engli	h -
Basic																
	Date Format	YYYY MM-0	D											NTP Enable		
Video & Audio	Time Format	24-Hour											NTP Server			
Access Control Settings	Time Zone	GMT+08:00											Port			
	System Time	2021-11-18		a			30	Sync with	PC				Interval		min.	
		O ON	OFF													
	DST Type	Date	Wee	k												
	Start Time	Jan		The 1st	Week		Monday			00 :	00					
	End Time	Jan		The 1st	Weck		Tuesda	Y		00 :						
Update																
Upload File	Maintenance	Never														
		Enable														
Legal Info	Emergency Maintenance	쭏 Enable														
														Save	Rokesh	Defau

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

Table 4-5 System parameter description

Parameter	Description
	Select from one of the following:
	• YYYY-MM-DD
Date Format	MM-DD-YYYY
	DD-MM-YYYY
	Select from one of the following:
Time Format	• 24-Hour
	• 12-Hour
	$\triangle$
System Time	Changing system time might cause problems on video searching and information
	publication. Turn off video recording and auto snapshot before changing it.
Time Zone	Configure the time zone as needed.
Sync with PC	Synchronize the VTO system time with your PC.
	Daylight saving time. If it is applicable to your area, you need to enable it, and
DST	then configure DST type, start time and end time.
DST Type	Select <b>Date</b> or <b>Week</b> as needed, and then configure the specific period.
Start Time	Configure the start times and and times of DCT
End Time	Configure the start time and end time of DST.
NTP Enable	Enable NTP and enter the IP address of the NTP server, and then the VTO will
NTP Server	syncronize time with the NTP server automatically.
Port	NTP server port number.
Interval	VTO time update cycle. 30 minutes at most.
	Define the time when the VTO will restart automatically.
Maintenance	Choose from Never, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday and
	Sunday.
	You can connect debugging devices to the VTO through SSH protocol.
ссц	
SSH	We recommend turning it off, and turn on security mode and outbound service
	information protection. See "4.5 Security". Otherwise, the VTO might be exposed
	to security risks and data leakage.
Emorgonau	Enable it for fault analysis and repair.
Emergency Maintenance	
maintenance	This function will occupy 8088 and 8087 ports.
NTP Enable	Enable NTP so that the device time will be automatically synchronized with server.
tep 3 Click Sav	

Step 3 Click Save.

# **4.5 Security**

Configure functions that involve device security. <u>Step 1</u> Select Local Settings > Security.

Figure 4-11 Security

WEB SERVICE2.0	@Local Settings	<b>≣</b> ₅Household Setting	Network	Search Log	English +	4.11
	Security					
	🔀 CGI Enable					
Access Control Settings	Mobile Push					
	Audio/Video	Transmission Encryption				
RS-485	RTSP Over TL	S rvice information Protection				
	Multicast/Rec					
	Authentication Mode	(Recommended) Compatible Mode				
	Password Diplines in Never					
Update				Save	Refresh Default	
Upload File						

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

Table 4-6 Security parameter descrip	otion
--------------------------------------	-------

Parameter	Description
	Enable the use of CGI command.
CGI Enable	$\triangle$
	We recommend you turn it off. Otherwise, the VTO might be exposed
	to security risks and data leakage.
	Send information to the app on the smartphone.
Mobile Push Notification	$\triangle$
MODILE PUSIT NOULICATION	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.
	Encrypt all data during voice or video call.
Audio/Video	
Transmission Encryption	We recommend you turn it on. Otherwise, the VTO might be exposed
	to security risks and data leakage.
	Allow third-party to pull video stream of the VTO through the ONVIF
	protocol.
ONVIF On	$\triangle$
	We recommend turning it off. Otherwise, the VTO might be exposed to
	security risks and data leakage.
	Output encrypted bit stream through RTSP.
RTSP Over TSL	$\triangle$
	We recommend you turn it on. Otherwise, the VTO might be exposed
	to security risks and data leakage.
Outbound Service Information Protection	Protect your passwords.

Parameter	Description
	$\wedge$
	We recommend you turn it on. Otherwise, the VTO might be exposed
	to security risks and data leakage.
	Enable it and the VTO will be found by other devices.
Multicast/Broadcast Search	$\wedge$
Search	We recommend you turn it off. Otherwise, the VTO might be exposed
	to security risks and data leakage.
	<ul> <li>Security Mode (recommended): Support logging in with Digest authentication.</li> <li>Compatible Mode: Use the old login method.</li> </ul>
Authentication Mode	$\wedge$
	We recommend you use the security mode. Compatible mode might
	expose the VTO to security risks and data leakage.
	Select an expiration period.
Password Expires in	$\triangle$
	We recommend you do not use never. The VTO might be exposed to
	security risks and data leakage if you chose that one.

Step 3 Click Save.

# 4.6 Onvif User

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

 $\wedge$ 

The operation of deleting an account cannot be undone.

<u>Step 1</u> Select Local Settings > Onvif User.

Figure 4-12 Onvif user

Onvil User No. 1	Uunees aktis	Creae admin	Komy /	
	admin	admin		
Add Retroh				
	Soft	Gen Thereas	Mar Terrera	SA Refera

Step 2 Click Add.

Figure 4-13 Add an Onvif user

Add				×
Username				
Password				
	Weak	Medium	Strong	
Confirm				
			Save	Cancel

<u>Step 3</u> Enter the information, and then click **Save**.

Onvif devices can now monitor the VTO by using the account.

# 4.7 Updating

- <u>Step 1</u> Select Local Settings > Update.
- <u>Step 2</u> Select ways to check the update.
  - **Auto Check**: Select 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	4-14	Update
--------	------	--------

WEB SERVICE2.0	ல்Local Settings	<b>≣</b> <sub>n</sub> Household Setting	Network	Search Log	English +
Basic	Online Update				
Video & Audio	Auto Check	000000.0.R.20211110 Manual Chec	_		
Access Control Settings 💙	System Version: 4.510. Already biding the tai				
System					
Onvif User					
Upload File					
Legal Info					

# 4.8 Uploading File

Upload audio file to change the sound when calling, unlocking the door, and more.

- <u>Step 1</u> Select Local Settings > Upload File.
- <u>Step 2</u> Select an audio type from the drop-down list, and then click **Browse** to select the audio file.

#### Figure 4-15 Change sound prompt

WEB SERVICE2.0	ఉ Local Settings	Household Setting	Network	Search Log	English -
Basic Video & Audio Access Control Settings 💙	Upload File Audio Types Cating Local Upload Press suited reg (	• New part the time size second 20 Gr	Browse Upkoad		
System			Audio Types	Delote	
Onvif User					
Update					
Legal Info					
			No data		

Step 3 Click Upload.

# 4.9 Legal Information

You can view related legal information notices in this section. Figure 4-16 Legal information

WEB SERVICE2.0	⇔ Local Settings	Be Household Setting	Metwork	Search Log	English •
Basic					
Video & Audio					1
Access Control Settings 💙					
System	1000		<b>Little Actual</b>		00000
Security	1.00	CONTRACTOR IN	PROFESSION OF CALL		100 Aug.
Onvif User	and the second second				COLUMN 1
Update					
Upload File	-Repairing to a		Collination of the second		usum.
Legai Info	International Advancements	la manager de la deservación de las			
	HEAD IN COLUMN				
	Contractor in the other lines				
	STREET.				

# **5** Household 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.

## 5.1 VTO No. 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 web page of the VTO that works as the SIP server.
- <u>Step 2</u> Select Household Setting > VTO No. Management.



Figure 5-1 VTO management

Step 3 Click Add.

Figure 5-2 Add VTO

Add			×
No.			
Registration Password	•••••		
Build No.			
Unit No.			
IP Address	127.0.0.1		
Username			
Password			
		Save	Cancel

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

The SIP server must be added.

Table 5-1	Add VTO	configuration	
-----------	---------	---------------	--

Parameter	Description		
No.	The VTO number you configured.		
Registeration	Leave it as default.		
Password	Leave It as default.		
Build No.			
Unit No.	Available only when the platform servers work as the SIP server.		
IP Address	IP address of the VTO.		
Username	Username and password used to log in to the web page of the VTO.		
Password	osemane and password used to log in to the web page of the vio.		
tep 5 Click <b>Save</b> .			
Click 🗾 or 본	to modify or delete a VTO, or <b>Clear</b> to delete all added VTOs, but the one		

that you have logged in to cannot be modified or deleted.

## 5.2 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 web page of the SIP server.

<u>Step 2</u> Select Household Setting > VTH Management.

Figure 5-3 Room number management

WEB SERVICEZ.O	袋 Local Settings	Household Setting		Network	Search Log	English -
VTO No. Management	VTH Management					
	Room No.	First Name	Last Name	Nick Name	Registration Mode	Modify
VTS Settings	9901#0				public	1.8
Status	9901#1				public	· /×
	9901#2				public	<b>/</b> ×
Personnel Management	9901#3				public	2*
	9901#4				public	/ 8
	9901#5				public	1.8
	9901#6				public	/x
	9901#7				public	Z 8
	9901#8				public	/ 8
	9901#9				public	<b>2 K</b>
	Add Refresh C	kar				H 4 1/1 + H Goto +

Step 3 Click Add.

Figure 5-4 Add a room number

<b>J</b>			
Add			×
First Name			
Last Name			
Nick Name			
Room No.			
Registration Mode	public 🔻		
Registration Password	×		
	· · · · · · · · · · · · · · · ·		_
		Save Cancel	

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

Table 5-2 Room information
----------------------------

Parameter	Description
First Name	
Last Name	Enter the information you need to differentiate each room.
Nick Name	
Room No.	Enter a room number, and then configure the number on a VTH to connect to
ROOM NO.	connect it to the network.
Registeration Type	Select <b>public</b> .
Registeration	Leave it as default.
Password	Leave it as default.
Step 5 Click Save.	
Click 🖊 or	to modify or delete a room number.

# **5.3 Personnel Management**

Adding personnel information.

### Card issuing

Issue an access card to unlock the door of a room.

 $\square$ 

To use this function, the VTO must have a card reader.

<u>Step 1</u> Log in to the web page of the VTO.

<u>Step 2</u> Select Household Setting > Personnel Management.

Figure 5-5 Personnel management

WEB SERVICEZ.O	¢Lo	cal Settings	Household Setting	Metwork	Search Log	English -	ŧ
VTO No. Management	Personnel Mar	agement					
VTH Management		Personnel No.	Room No.	Username	Card Info	Modify	Delete
VTS Settings							,
Status							
Personnel Management							
				No data			
	Add	Refresh	Clear			∺	o +
	Personnel Export	Personnel Import					



Figure 5-6 Add personnel information

Add					×
Personnel No.					
Room No.					
Username					
Unlock Permission	🗹 Lock 1	🗹 Lock 2			ġ.
- 18 - 2017 - 18 21 19 10 (18 18 19 19 19 19 19 19 19 19 19 19 19 19 19					
			Save	Cancel	

<u>Step 4</u> Enter the parameters, and then click **Save**.

- Lock1: Local lock. •
- Lock 2: 485 lock.

 $\square$ 

Only models that have 485 ports support 2 types of locks.

Figure 5-7 Operation succeed

*	Local Settings	Household Setting	Network	Search Lo	9	Englis	h -
Personnel	Management						
No.	Personnel No.	Room No.	Username	Card Info	QR Code	Modify	Delete
		22	222	-		1	

 $\square$ 

<u>Step 5</u> Click to go to the card issuing window.

For some VTO models, the QR code is embedded in the Personnel Management page. Yet for some models, you need to go to **Network > Basic > Cloud Service** to check the QR code.

Figure 5-8 Card issuing window

Card Info				×
-				
No.	Card No.	Name	Modify	Delete
		No data		
Clear			H 4	1/1 ▶ ⊨ Goto 📄 ⇒
			Issue	Card



<u>Step 7</u> The web page displays the countdown prompt (120 s). Once the countdown starts, you need to swipe the card on the card reader of the VTO within this time period. After the swiping, the card number will be automatically recognized by the VTO.

Figure 5-9 Countdown in process

Card Info		• •		×
No.	Card No.	Name	Modify	Delete
		No data		
Clear				I/1 ▶ ⊮ Goto 📃 +
Cical				
	98s	Confirm Send Card	Cancel Se	nd Card
	Card(s)			

<u>Step 8</u> Click **Confirm Send Card** after swiping to complete the issuing process.

Figure 5-10 Newly issued Cards

Card Info				×
No.	Card No.	Name	Modify	Delete
1	DD589122			

### **Other Operations**

- Click 🔜 to set it to loss, and then the icon changes to 📕. The lost card cannot be used to open the door.
- Click 🗹 or 📕 to modify the username or delete the card.

## 5.4 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 web page of the VTO that works as the SIP server.

#### <u>Step 2</u> Select Household Setting > VTS Settings.



Step 3 Click Add.

Figure 5-12 Add VTS

Add		×
VTS No.		
Registration Password	····· ~~	
IP Address	all the a	
	Save	Cancel

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

Table 5-3 Add VTS configuration
---------------------------------

Parameter	Description           The number of the VTS.		
VTS No.			
Registeration Password	Leave it as default.		
IP Address	VTS IP address.		

Step 5 Click Save.

## 5.5 Status

You can view the online status and IP addresses of all the connected devices.

Log in to the web home page of the SIP server, and then select **Household Setting > Status**.

Figure 5-13 Status

VEB SERVICE2.0	☆ Local Setting	ps Eu Hou	sehold Setting	Network	Search Log English -
VTO No. Management	Status				
/TH Management	Room No.	Status	IP:Port	Reg Time	Off Time
/TS Settings	8001	Online	107-228-000	2021-10-25 09:24:15	
					ii + 1/1 ⊨ ⊨ Gotoi
ersonnel Management					
# **6** Network

This chapter introduces how to configure the network parameters.

# 6.1 Basic

### 6.1.1 TCP/IP

You need to configure the TCP/IP information to connect the VTO to the network. The descriptions below are for models with a Wireless LAN card. A Wireless LAN device is optional.

### Wireless LAN

- <u>Step 1</u> Log in to the web page of the VTO.
- <u>Step 2</u> Select **Network** > **Basic**.
- <u>Step 3</u> Configure the TCP/IP parameters in the **WLAN** section.

### LAN

- <u>Step 1</u> Log in to the web page of the VTO.
- <u>Step 2</u> Select **Network** > **Basic**.
- <u>Step 3</u> Configure the TCP/IP parameters in the **LAN** section.

Figure 6-1 Network configuration

WEB SERVICE2.0	☆Local Settings		Household Setting	Network
	TCP/IF	,		
UPnP	Default Card	🛛 LAN 🔵 WLAN	Transmissi	on Mode 💿 Mode1 🔷 Mode 2
SIP Server	LAN			WLAN
	IP Address	100.000		DHCP 💽 ON 🕥 OFF
WiFi	Subnet Mask	101/01/11	IF	Address
Firewall	Default Gateway		Sub	net Mask
Firewall	MAC Address		Default	Gateway
	Preferred DNS	8.8.8.8	MAC	Address
	Alternate DNS	8.8.4.4	Prefe	rred DNS 8.8.8.8
			Alten	nate DNS 8.8.4.4

Table 6-1 Parameter description

Parameter	Description
IP Address	Your planned IP address for the VTO.
Preferred DNS	It is 8.8.8 by default.
Alternate DNS	It is 8.8.4.4 by default.

Parameter	Description
	Choose the transmission mode based on your actual needs.
	Mode 1: Multicast streaming (UDP).
Transmission	• Mode 2: RTSP streaming (TCP).
Mode	
	Mode 2 is preferred when the switch does not support multicast
	function, or when the network connection is not good.
DHCP	Enable the function to get the allocated IP address for the VTO.

### 6.1.2 Port

### Figure 6-2 Port

Port					
Port	80		TCP Port	37777	
HTTPS Port	443	Enable	UDP Port	37778	
	Warning:Disabling HTTP5 may Compatible with TLSv1.1 and				
Certificate Manag	gement				
	Create Server Certificate	ownload Root CERT Delete			

### Table 6-2 Parameter description

Parameter	Description
Port	80 by default. If already used, choose any number from 1025 to 65535 as needed. You can enter <i>http://VTO IP address: Port</i> to log in to the VTO.
HTTPS Port	Enable it and click <b>Save</b> . You can now enter <i>https://VTO IP address: HTTPS Port</i> to log in to the VTO.
TCP/UDP Port	Used for accessing the VTO with devices in other networks. See "6.2 UPnP" for details.
Create Server Certificate	The unique digital identification of VTO for the SSL protocol. For first time use or after changing the IP address of the VTO, you need to go through this process.
	If you delete the certificate that has been created, it cannot be undone.
Download Root CERT	If you are using a PC that has never logged in to the VTO, you need to download the root certificate, double-click to install it, and then you can use the HTTPS function mentioned above.
	If you delete the certificate that has been installed, it cannot be undone.

### 6.1.3 Cloud service

#### Figure 6-3 Cloud service

Cloud Se	rvice				
Cloud Service Status SN	Enable     Offine     To assiss you in remotibly manuping your device, we need to obliest device this orich as IP definess. Revice name, directs 5N, etc. All     collected info a same only for the proposal of remote access. It you do     not agree to enable the function above please concert the sice.	QR Code			
			Save	Refresh	Default

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 smartphone.

 $\square$ 

For some VTO models, the QR code is embedded in the **Cloud Service** module. Yet for some models, you need to go to **Household Setting** > **Personnel Management** to check the QR code.

### 6.2 UPnP

When the VTO works as the SIP server, you can configure the UPnP function to allow WAN devices to log in to the VTO.

WEB SERVICEZ.O		\$Local Setting	5	Household Setting	@Net	twork	Search	Log	English
Basic	Enabl								
		Service Name	Service Type	Protocol	Internal Port	External Port	Status	Modify	Delete
SIP Server		нттр	CustomService	тср	80	8080	Failed	1	
		TCP	CustomService	TCP	37777	37777	Failed	1	
	8	UDP	CustomService	UDP	37778	37778	Failed		
Firewall		RTSP	CustomService	тср	554	554	Failed	1	
		PrivService	CustomService	TCP	18877	18877	Failed		
		SIP	CustomService	UDP	5060	5060	Falled		
		Rtp	CustomService	UDP	15001	15001	Failed		
	8	Rtp	CustomService	UDP	15002	15002	Failed		
		Rtp	CustomService	UDP	15003	15003	Failed		
		Rtp	CustomService	UDP	15004	15004	Failed		
		Rtp	CustomService	UDP	15005	15005	Failed		
		Rtp	CustomService	UDP	15006	15006	Falled	1	
		Rtp	CustomService	UDP	15007	15007	Falled		
		Rtp	CustomService	UDP	15008	15008	Failed	1	
							Save	Retresh	Add

Figure 6-4 UPnP

### Preparation

- Enable the UPnP function on the router, and then configure a WAN IP address for the router.
- Connect the VTO to the LAN port of the router.

### 6.2.2 Enabling UPnP Services

<u>Step 1</u> Select **Network** > **UPnP**.

- <u>Step 2</u> Enable the services listed.
- Step 3 Select Enable.
- Step 4 Click Save.

### 6.2.3 Adding UPnP Services

- <u>Step 1</u> Select **Network** > **UPnP**.
- Step 2 Click Add.
- <u>Step 3</u> Configure the parameters as needed.

Figure 6-5 Add a UPnP service

Add		×
	ON OFF	
Service Name		
Service Type		
Protoco	ТСР 👻	
Internal Port		
External Port		
	Save	Cancel

Table 6-3 Parameter description

Parameter	Description				
Service Name					
Service Type	Enter the information as needed.				
Protocol	Select <b>TCP</b> or <b>UDP</b> .				
Internal Port	Use port number from 1024 through 5000.				
	<ul> <li>Do not use port number 1–1023 to avoid conflict.</li> </ul>				
Eutowe al Dawt	• If you need to configure this function for multiple devices, make sure that				
External Port	the ports are not the same.				
	• The port number you use must not be occupied.				
	• The internal and external port number must be the same.				

### **6.3 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.

<u>Step 1</u> Select **Network** > **SIP Server.** 

<u>Step 2</u> Select a server type.

• The VTO you have logged in as the SIP server:

Enable **SIP Server**, and click **Save**. You can add VTOs and VTHs to this VTO. See the details in "5 Household Setting".

If the VTO you have logged in does not work as the SIP server, do not enable **SIP Server**; otherwise the connection will fail.

If another VTO works as the SIP server:
 Do not enable SIP server. Set Server Type to VTO, configure the parameters, and then click Save.

Figure 6-6 VTO as the SIP server

WEB SERVICE2.0	¢ Local S	<b>Settings</b>	Be Household Setting	Network	Search Log	English -
Basic						
	SIP Server	😪 Enable				
UPnP	Server Type					
	IP Address					
	Port					
	Username					
Firewall	Password					
	SIP Domain					
	SIP Server Username					
	SIP Server Password					
					Save Reliesh	Default

Table 6-4 SIP server configuration (VTO as the SIP server)

Parameter	Description		
IP Addr.	Your planned IP address of the VTO.		
Port	5060 by default when a VTO works as the SIP server.		
Username			
Password	Leave it as default.		
SIP Domain	Leave it as default.		
SIP Server Username	Username and password used to log into the web page of the SIP server.		
SIP Server Password	osername and password used to log into the web page of the Sir Server.		

• If the platform works as the SIP server:

Set **Server Type** as **DSS Express/DSS Pro**, and configure the parameters, and then enable the **SIP Server**.

#### Figure 6-7 Platform as the SIP server

WEB SERVICE2.0	☆ Local Setti	ng 🏭 Househ	old Setting	Setting	Log Management
Basic	SIP Server	Enable			
	Server Type	DSS Express/DSS Pro 🗢			
Firewall	IP Addr.	1962 1983 1 1911	Alternate IP Addr.	0.0.0.0	
	Port	5080	Alternate Username		
	Username		Alternate Password	•••••	
	Password		Alternate VTS IP Addr.		
	SIP Domain	VDP	Alternate Server	Enable	
	SIP Server Username				
	SIP Server Password	••••••			
	and Valk Charge Street				Save

Table 6-5 SIP server description (platform as the SIP server)

Parameter	Description
IP Addr.	IP address of the SIP server.
Port	5080 by default when the platform works as the SIP server.
Username/Password	Leave it as default.
SIP Domain	Leave it as default.
SIP Server Username/ Password	Used to log in to the SIP server.
Alternate IP Addr.	<ul> <li>The alternate server will be used as the SIP server when Express/DSS stops responding. We recommend you configure the alternate IP address.</li> <li>If you enable Alternate Server, the current VTO you have logged in serves as the alternate server.</li> <li>If you want another VTO serve as the alternate server, you need to enter the IP address of that VTO in the Alternate IP Addr. textbox. Do not enable Alternate Server in this case.</li> </ul>
Alternate Username/ Password	Used to log in to the alternate server.
Alternate VTS IP Addr.	IP address of the alternate VTS.
Alternate Server	Enable it as needed.

### 6.4 Wi-Fi

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

Figure 6-8 Wi-Fi

Signal Intensity Status Correct all + all + all +
+ ha + ha + ha
+ ha + ha + ha

- <u>Step 1</u> Select **Network** > **WiFi**.
- Step 2 Set the WiFi status as On.
- <u>Step 3</u> Select a region, and all the networks available in this region are displayed.
- <u>Step 4</u> Click 📕 to connect to the network that you chose.

## 6.5 Firewall

You can enable different firewall types to control network access to the VTO. Step 1 Select **Network** > **Firewall**.

Figure 6-9 Firewall

WEB SERVICE2.0	公 Local Settings	Bu Household Setting	Network	Search Log	) English -
	Firewall				
UPnP	Type Network Access				
	Mode 🔵 allowlist 💿 block	st			
	allowlist blocklist				
	IP Address	MAC A	ldress	Port	Modify Delete
			No data		
	Default Refresh Conf	m			
	Pesitesi Cun				

- <u>Step 2</u> Select **Type**, and then enable it.
- <u>Step 3</u> Configure the parameters.
- Step 4 Click **Confirm**.

Table 6-6 Firewall type description

Туре	Description
	Select either Allowlist or Blocklist, and then add an IP address or segment
Network Access	which is allowed or denied to access the VTO.
PING Prohibited	The VTO will not response to ping to avoid ping attacks.
Anti-semijoin	Protects the VTO performance by blocking excessive SYN packets.
	Allowlist: Devices that have been granted an access.
Mode	Blocklist: Devices that have been forbidden an access.

# 7 Log Management

Select **Search Log**. You can search for different logs, and export them to your PC as needed.

 $\wedge$ 

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

# 7.1 Call



WEB SERVICE2.0	φLo	cal Settings	Household Setting	Network	Search Log	English -
			Room No.	Start Time	Talk Time(Min.)	End State
Alarm		Call Type	KOOM NO.	Sartinne	Lask Listin (Mun.)	tho state
				No data		
	Export Data					H + 1/1 ⊨ ⊨ Goto+

## 7.2 Alarm

Figure 7-2 Alarm

EB SERVICEZ.O	☆Local	Settings	and Household Setting	twork	Search Log English -
		Room No.	Event State	Channel	Start Time
		8001	Tamper Alarm		2021-10-25 17:20:09
Inlock		8001	Tamper Alarm		2021-10-25 17:20:09
		8001	Door Sensor		2021-10-25 09:24:35
	Export Data				⊯ ∢ 1/1 ⊮ ⊮ Goto

# 7.3 Unlock

Figure	7-3	Un	lock
		• • • •	

WEB SERVICE2.0	¢	Local Settings	5	Household Settin	)	Networ	k	Sei	arch Log	English -	
Alarm		Unlock Type		Personnel No.	Room No.	Usemame			Unlock Result	Unlock Time	
						No data					
	Export Data									.e	
	Export Data									.≪ 4 1/1 ≥ >= Gato	

# 7.4 Log

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

		Figure 7-4 Log	I		
WEB SERVICE2.0	尊Local Settings	Household Setting	Network	Search Log	English -
	Time Range 2021-10-25 00	100:00 🛇 – 2021-10-26 00:00:00			
	Type At	- Search			
		Record Time		Event	
			No data		
	Log Info Record Time: Type: Content:	€ fncrypt Log Backup			∉ ≼ 1/1 ≽ ≽ Goto – ∉
	Finan they unsurpled fine o	tell, ili order to arcelé data technije rite.			

# **8 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.

## 8.1 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.





# 8.2 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.

<u>Step 1</u> Power on the VTH.

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

### Figure 8-2 Wired zone setting

9901#0				Alarm				8 1
J Ring	Wire	d Zone	W	/irelessZone		c	lutput	
1 Card Info	Area	Туре		NO/NC	Status		En-Delay	Ex-Delay
Alarm	1		٠	NO 🕶	Instant	•	0S 💌	0S ·
Mode	2			NO -	Instant	*	0S 🔫	0S -
Forward	3			NO 🕶	Instant	*	0S -	0S -
🔅 General	4		*	NO -	Instant	*	0S -	0S
i Product Info				ок			< >	

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

<u>Step 4</u> **Tap** OK to complete setting.

Table 8-1 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					
NO/NC	be the same as detector type.						
Туре	Select corresponding type according to detector type, including IR, gas, smoke,						
туре	urgency btn, door, burglar alarm, perimeter and doorbell.						
	• Instant Alarm: After armed, if an alarm is triggered, the de	evice produces siren at					
	once and enters alarm status.						
	• <b>Delay Alarm</b> : After armed, if an alarm is triggered, the device enters alarm stat						
	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 wil						
Status	us restore to normal working status.						
	Remove: The area is invalid during arm/disarm.						
	<b>24 Hour</b> : Alarm will be triggered all the time in the area regardless of arm or						
	disarm.						
	A zone in <b>Remove</b> status cannot be bypassed.						
	After entering delay, when armed area triggers an alarm,						
	entering armed area from non-armed area within the delay						
Enter 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.	Delay is only valid to					
	After arm, Delay Alarm area will enter arm status at the end	the areas of <b>Delay</b>					
	of <b>Exit Delay</b> .	Alarm.					
Exit Delay							
	If multiple areas set the exit delay, screen prompt will conform						
	to maximum delay time.						

# **Appendix 1 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, we recommend enabling 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, we recommend turning 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.