

# **Cybersecurity Recommendations**

#### Mandatory actions to be taken towards cybersecurity

#### 1. Change Passwords and Use Strong Passwords:

The number one reason systems get "hacked" is due to having weak or default passwords. It is recommended to change default passwords immediately and choose a strong password whenever possible. A strong password should be made up of at least 8 characters and a combination of special characters, numbers, and upper and lower case letters.

#### 2. Update Firmware

As is standard procedure in the tech-industry, we recommend keeping NVR, DVR, and IP camera firmware up-to-date to ensure the system is current with the latest security patches and fixes.

#### "Nice to have" recommendations to improve your network security

#### 1. Change Passwords Regularly

Regularly change the credentials to your devices to help ensure that only authorized users are able to access the system.

#### 2. Change Default HTTP and TCP Ports:

• Change default HTTP and TCP ports for systems. These are the two ports used to communicate and to view video feeds remotely.

• These ports can be changed to any set of numbers between 1025-65535. Avoiding the default ports reduces the risk of outsiders being able to guess which ports you are using.

#### 3. Enable HTTPS/SSL:

Set up an SSL Certificate to enable HTTPS. This will encrypt all communication between your devices and recorder.

#### 4. Enable IP Filter:

Enabling your IP filter will prevent everyone, except those with specified IP addresses, from accessing the system.

#### 5. Change ONVIF Password:

On older IP Camera firmware, the ONVIF password does not change when you change the system's credentials. You will need to either update the camera's firmware to the latest revision or manually change the ONVIF password.

#### 6. Forward Only Ports You Need:

• Only forward the HTTP and TCP ports that you need to use. Do not forward a huge range of numbers to the device. Do not DMZ the device's IP address.

• You do not need to forward any ports for individual cameras if they are all connected to a recorder on site; just the NVR is needed.

#### 7. Disable Auto-Login on SmartPSS:

Those using SmartPSS to view their system and on a computer that is used by multiple people should disable auto-login. This adds a layer of security to prevent users without the appropriate credentials from accessing the system.

#### 8. Use a Different Username and Password for SmartPSS:

In the event that your social media, bank, email, etc. account is compromised, you would not want someone collecting those passwords and trying them out on your video surveillance system. Using a different username and password for your security system will make it more difficult for someone to guess their way into your system.

#### 9. Limit Features of Guest Accounts:

If your system is set up for multiple users, ensure that each user only has rights to features and functions they need to use to perform their job.

#### 10. UPnP:

• UPnP will automatically try to forward ports in your router or modem. Normally this would be a good thing. However, if your system automatically forwards the ports and you leave the credentials defaulted, you may end up with unwanted visitors.

• If you manually forwarded the HTTP and TCP ports in your router/modem, this feature should be turned off regardless. Disabling UPnP is recommended when the function is not used in real applications.

#### 11. SNMP:

Disable SNMP if you are not using it. If you are using SNMP, you should do so only temporarily, for tracing and testing purposes only.

#### 12. Multicast:

Multicast is used to share video streams between two recorders. Currently there are no known issues involving Multicast, but if you are not using this feature, deactivation can enhance your network security.

#### 13. Check the Log:

If you suspect that someone has gained unauthorized access to your system, you can check the system log. The system log will show you which IP addresses were used to login to your system and what was accessed.

#### 14. Physically Lock Down the Device:

Ideally, you want to prevent any unauthorized physical access to your system. The best way to achieve this is to install the recorder in a lockbox, locking server rack, or in a room that is behind a lock and key.

#### 15. Connect IP Cameras to the PoE Ports on the Back of an NVR:

Cameras connected to the PoE ports on the back of an NVR are isolated from the outside world and cannot be accessed directly.

#### 16. Isolate NVR and IP Camera Network

The network your NVR and IP camera resides on should not be the same network as your public computer network. This will prevent any visitors or unwanted guests from getting access to the same network the security system needs in order to function properly.

# Foreword

### General

This Manual introduces the operation of the web interface.

### Safety Instructions

The following categorized signal words with defined meaning might appear in the Manual.

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

### **Revision History**

No.	Version	Revision Content	Release Date
1	V1.0.0	First release	September, 2018

### **Privacy Protection Notice**

As the device user or data controller, you might collect personal data of others such as face, fingerprints, car plate number, Email address, phone number, GPS and so on. You need to be in compliance with the local privacy protection laws and regulations to protect the legitimate rights and interests of other people by implementing measures include but not limited to: providing clear and visible identification to inform data subject the existence of surveillance area and providing related contact.

### About the Manual

- The Manual is for reference only. If there is inconsistency between the Manual and the actual product, the actual product shall prevail.
- We are not liable for any loss caused by the operations that do not comply with the Manual.
- The Manual would be updated according to the latest laws and regulations of related regions. For detailed information, see the paper manual, CD-ROM, QR code or our official website. If there is inconsistency between paper manual and the electronic version, the electronic version shall prevail.
- All the designs and software are subject to change without prior written notice. The product

updates might cause some differences between the actual product and the Manual. Please contact the customer service for the latest program and supplementary documentation.

- There still might be deviation in technical data, functions and operations description, or errors in print. If there is any doubt or dispute, please refer to our 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 the company names in the Manual are the properties of their respective owners.
- Please visit our website, contact the supplier or customer service if there is any problem occurred when using the device.
- If there is any uncertainty or controversy, please refer to our final explanation.

# **Important Safeguards and Warnings**

The following description is the correct application method of the device. Please read the manual carefully before use, in order to prevent danger and property loss. Strictly conform to the manual during application and keep it properly after reading.

### **Operating Requirement**

- Please don't place and install the device in an area exposed to direct sunlight or near heat generating device.
- Please don't install the device in a humid, dusty or fuliginous area.
- Please keep its horizontal installation, or install it at stable places, and prevent it from falling.
- Please don't drip or splash liquids onto the device; don't put on the device anything filled with liquids, in order to prevent liquids from flowing into the device.
- Please install the device at well-ventilated places; don't block its ventilation opening.
- Use the device only within rated input and output range.
- Please don't dismantle the device arbitrarily.
- Please transport, use and store the device within allowed humidity and temperature range.

### **Power Requirement**

- The product shall use electric wires (power wires) recommended by this area, which shall be used within its rated specification!
- Please use power supply that meets SELV (safety extra low voltage) requirements, and supply power with rated voltage that conforms to Limited Power Source in IEC60950-1. For specific power supply requirements, please refer to device labels.
- Appliance coupler is a disconnecting device. During normal use, please keep an angle that facilitates operation.

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For first time login or after the VTO being reset, you need to initialize the web interface. The default IP address of the VTO is 192.168.1.110, and make sure the PC is in the same network segment as the VTO.

<u>Step 1</u> Connect the VTO to power source, and then boot it up.

<u>Step 2</u> Open the internet browser on the PC, then enter the default IP address of the VTO in the address bar, and then press Enter.

The **Device Init** interface is displayed. See Figure 1-1.

Device Init			×
1	2	3	
One	Тwo	Three	
Userr	name admin		
Pass	word		
	Low Middle	High	
Confirm Pass	word		
	Next		
	нол		

Figure 1-1 Device initialization

- <u>Step 3</u> Enter and confirm the password, and then click **Next**. The Email setting interface is displayed.
- <u>Step 4</u> Select the **Email** check box, and then enter your Email address. This Email address can be used to reset the password, and it is recommended to finish this setting.
- <u>Step 5</u> Click **Next**. The initialization succeeded.
- Step 6 Click OK.

The login interface is displayed. See Figure 1-2.

### Поставщик систем безопасности TELECAMERA.RU

3	
k	WEB SERVICE2.0
	Username
	Password
	Forget Password?
	Login

Figure 1-2 Login interface



# 2.1 Logging In

Before logging in, make sure that the PC is in the same network segment as the VTO.

<u>Step 1</u> Open internet browser on the PC, then enter the VTO IP address in the address bar, and then press Enter.

The login interface is displayed. See Figure 2-1.

Figure 2-1 Login interface

L	WEB SERVICE2.0
	Username
	Password
	Forget Password?
	Login

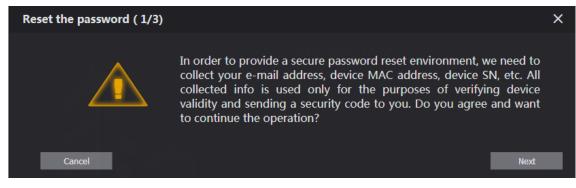
<u>Step 2</u> Enter "admin" as username, then the password you set during initialization, and then click **Login**.

## 2.2 Resetting Password

<u>Step 1</u> On the login interface (Figure 2-1), click **Forgot Password?**.

The **Reset the password (1/3)** dialog box is displayed. See Figure 2-2.

Figure 2-2 Reset the password (1/3)





The Reset the password (2/3) dialog box is displayed. See Figure 2-3.

 Reset the password (2/3)
 X

 Scan QR Code :
 Image: Code of the password (2/3)

 Scan QR Code :
 Image: Code of the password (2/3)

 Image: Code of the password (2/3)
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 Image: Code of the password (2/3)

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Figure 2-3 Reset the password (2/3)

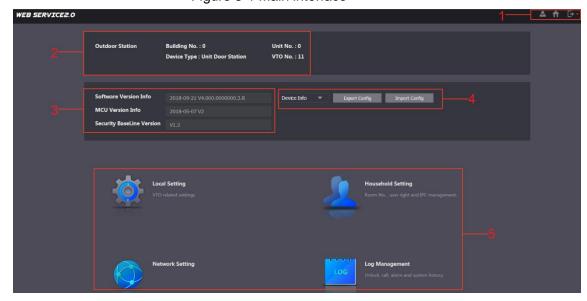
<u>Step 3</u> Scan the QR code to obtain the security code in your mailbox, and then enter the security code in the input box.



- If you did not configure Email during initialization, contact the supplier or customer service for help.
- To obtain security code again, refresh QR code interface.
- Use the security code within 24 hours after receiving it. Otherwise, it will become invalid.
- If wrong security code is entered for 5 times continuously, this account will be locked for 5 min.
- <u>Step 4</u> Click Next, and then the Reset the password (3/3) dialog box is displayed.
- <u>Step 5</u> Set and confirm the new password as instructed, and then click **OK**.



Log in the web interface of the VTO, and then the main interface is displayed. See Figure 3-1. Figure 3-1 Main interface



For the introduction of the main interface, see Table 3-1.

Table 3-1	Main	interface	introduction
	main	menace	Introduction

No	Eurotion Description		
No.	Function	Description	
		These buttons are displayed all the time	
		Click Let to change the password and your	
	General	Email address.	
1	function	Click to go to the main interface.	
		Click to log out, reboot the VTO or restore	
		the VTO to factory settings.	
	VTO	You can view the general information of the VTO,	
2	information	including building No., unit No., device type, and VTO	
	information	No	
3	System	You can view the software version, MCU version, and	
3	information security baseline version.		
Config	Config	Select Device Info or User Info, and then you can	
4	0	export the VTO configuration or user information to the	
	manager	PC or import them from it.	
5	Function area	Click the buttons to go to the corresponding menu.	



This chapter introduces how to configure VTO type, VTO No., video and audio, access password, system time, and security function.

General operations:

- After every configuration, click **Confirm** to save, and click **Refresh** to view the latest change.
- If you click **Default**, all the configurations in the current page would be restored to the default, and you need to click **Confirm** to save.

### 4.1 Basic

This section introduces the configuration of VTO device type, VTO number and auto storage. Step 1 On the main interface (Figure 3-1), select **Local Setting > Basic**.

The **Basic** interface is displayed. See Figure 4-1.

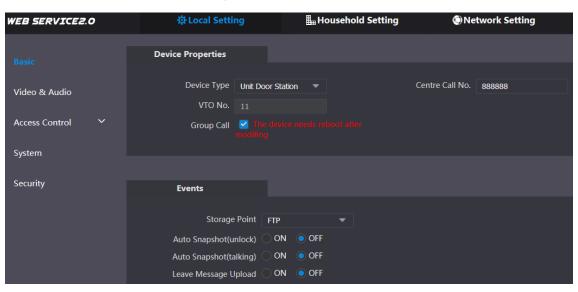


Figure 4-1 Basic

<u>Step 2</u> Configure parameters, and for the detailed description, see Table 4-1.

Table 4-1	Basic	parameter	descri	ntion
	Dasic	parameter	uescii	puon

Parameter	Description
	You can select Unit Door Station or Fence Station.
	• Unit Door Station: Normally installed inside the community
	with a specific building number or unit number.
Device Type	• Fence Station: Normally installed at the community gate, and you need to enter the building number, unit number, and room
	number to call a specific room. You cannot leave message or view contact on fence station.
	• Building number and unit number are available only when
	other servers work as SIP server. See "6.4 SIP Server."

Parameter	Description		
	• Fence station is normally used when other servers work as SIP server.		
Centre Call No.	Configure the number of the management centre, and you can call the management centre on every VTO or VTH in the network. The default number is 888888.		
VTO No.	The VTO number can be used to differentiate each VTO, and it is normally configured according to unit or building number. You can add VTO devices to the SIP server with their numbers. If a VTO does not serve as a SIP server, then its VTO No. can be modified (log in the web page of the VTO, and then you can modify it.).		
Group Call	Select the check box to enable this function, and when calling a master VTH, the extension VTH devices receive the call as well.		
Storage Point	<ul> <li>You can only select FTP, and all the snapshots would be saved to the FTP server automatically.</li> <li>Auto Snapshot (unlock)</li> <li>Select ON to enable this function, and then the system takes snapshot every time when the door is unlocked.</li> <li>Auto Snapshot (talking)</li> <li>Select ON to enable this function, and then the system takes snapshot every time when VTH user answers a call from the VTO.</li> <li>Leave Message Upload</li> <li>Select ON to enable this function, and then the system uploads the messages from visitors to the FTP server automatically.</li> <li>You need to enable FTP function first. See "6.2 FTP."</li> <li>If there is SD card in the main VTH, the left messages would be saved to the SD card by default.</li> <li>To receive message, the VTO Message Time must be configured to be more than 0. See the VTH user's manual.</li> </ul>		

Step 3 Click Confirm to save.

### 4.2 Video & Audio

This section introduces how to configure the format and quality of the video that the VTO records, and the audio control settings.

<u>Step 1</u> On the main interface (Figure 3-1), select Local Setting > Video & Audio.

The Video & Audio interface is displayed. See Figure 4-2.

VEB SERVICE2.0	<b>☆Local Setting</b>	Household Setting	Network Setti	ng 🗧 Log Management
Basic	Video & Audio			
Video & Audio	_	Main Stream		Sub Stream
Access Control		Video Format	WVGA 👻	Video Format CIF 💌
System		Format Rate		Format Rate 25
		Bitrate Rate Conditions	2Mbps 💌	Bitrate Rate 256Kbps -
Security				
		Scene Mode		Brightness 52
		Day/Night Mode Backlight Mode		Contrast 45
		Sensor Sensitivity		Hue 51
		Sensor Sensitivity		Saturation 48
		Videostalidard	PAL	Gamma 50
				video.GainAuto 95 Mirror ON OFF
				Default
		Audio Control		Volume Control
		Voice Prompt Sound	Enable 💌	Mic Volume 90
		Ringback Sound	Enable 🔻	Beep Volume 80
		Unlock Sound	Enable 💌	
		Tampered Alarm Sound	Enable 🔻	

Figure 4-2 Video & Audio

<u>Step 2</u> Configure parameters, and these configurations take effect immediately. See Table 4-2.

Parameter		Description			
	Video Format	Select the video resolution from 720P, WVGA, and D1.			
		Configure the number of frames in 1 second. You can select			
Main	Format Rate	from 1 to 25 under PAL, and 1 to 30 under NTSC. The larger			
Stream		the value is, the smoother the video will be.			
Silean		Configure the data amount that transmitted in 1 second. You			
	Bitrate Rate	can select as needed. The larger the value is, the better the			
		video quality will be.			
	Video Format	Select the video resolution from CIF, WVGA, QVGA, and D1.			
		Configure the number of frames in 1 second. You can select			
Sub	Format Rate	from 1 to 25 under PAL, and 1 to 30 under NTSC. The larger			
Stream		the value is, the smoother the video will be.			
Stream	Bitrate Rate	Configure the data amount that transmitted in 1 second. You			
		can select as needed. The larger the value is, the better the			
		video quality will be.			
		Adjust the video to adapt to different scenarios. You can			
	Scene Mode	select from Automatic, Sunny, Night and Disabled. It is			
		Automatic by default.			
Conditions	Day/Night	You can select from Automatic, Colorful or Black White			
Conditions	Mode	mode.			
	Pooklight	You can select from the following modes:			
	BackLight Mode	• Disabled: no back light.			
	INICOLE	• Backlight: the camera gets clearer image of the dark			

Table 4-2 Video parameter description

Parameter		Description					
	Sensor Sensitivity	<ul> <li>areas on the target when shooting against light.</li> <li>Wide dynamic: the system dims bright areas and compensates dark areas to ensure the clarity of all the area.</li> <li>Inhibition: the system constrains bright areas and reduces halo size to dim the overall brightness.</li> <li>Adjust the value, and the larger the value is, the easier the sensor will be triggered.</li> </ul>					
	Video Standard	Select from <b>PAL</b> or <b>NTSC</b> according to your display device. Changes the value to adjust the picture brightness. The					
	Brightness	larger the value is, the brighter the picture will be, and the smaller the darker. The picture might be hazy if the value is configured too big.					
	Contrast	Changes the contrast of the picture. The larger the value is, the more the contrast will be between bright and dark areas, and the smaller the less. If the value is set too big, the dark area would be too dark and bright area easier to get overexposed. The picture might be hazy if the value is set too small.					
Picture	Hue	Makes the color deeper or lighter. The default value is made by the light sensor, and it is recommended.					
	Saturation	Makes the color deeper or lighter. The larger the value is, the deeper the color will be, and the lower the lighter. Saturation value doesn't change image brightness.					
	Gamma	Changes the picture brightness and improves the picture dynamic range in a non-linear way. The larger the value is, the brighter the picture will be, and the smaller the darker.					
	Video.GainAuto	Amplify the video signal to increase image brightness. If the value is too big, there will be more noise in the image.					
	Mirror	Select <b>On</b> , and then the image is displayed with left and right side reversed.					
	Flip	Select <b>On</b> , and then the image is displayed upside down.					
Audio Control	Select Enable or	e or <b>Disabled</b> to turn on or off each sound.					
Volume	Mic Volume	Adjust the value, and the larger the value is, the louder the microphone on the VTO will be.					
Control	Beep Volume	Adjust the value, and the larger the value is, the louder the system sounds will be.					

# 4.3 Access Control

This section introduces how to configure the lock, including unlock responding interval, open door command, issue card password, duress password and lift control protocol.

### 4.3.1 Local

<u>Step 1</u> On the main interface (Figure 3-1), select Local Setting > Access Control > Local. The Local interface is displayed. See Figure 4-3.

Figure 4-3 Local							
WEB SERVICE2.0	☆ Local Setting	Household	Setting	Network Setting	Log Management	2	
Basic	Local						
Video & Audio	Unlock Responding Interval			Public Unlock Password	n 🗹 En	able	
Access Control	Unlock Period			Public Unlock Password Confirm			
	Door Sensor Check Time Issue Card Password		Sec. Enabl	e Menace Password Menace Password Confirm			
RS485	Project Password						
System	First Unlock Command						
Security	Door Contact Type						
					Save	Refresh Default	

<u>Step 2</u> Configure parameters, and for the detailed description, see Table
---

Table 4-3 Local access control parameter description				
Parameter	Description			
Unlock Responding	The time interval to unlock again after the previous unlock, and the			
Interval	unit is second.			
Unlock Period	The time amount for which the lock stays open after unlock, and			
	the unit is second.			
	If you have installed door sensor, then you can configure the time			
	period, and If the unlock time exceeds the Door Sensor Check			
	Time, the door sensor alarm is triggered, and the alarm will be sent			
Door Sensor Check	to the management center.			
Time	• Select the Enable check box, and the door will not be locked			
	until the door sensor contacts each other.			
	• If you do not select the Enable check box, the door will be			
	locked after the Unlock Period finishes.			
	This password can be used to issue new card.			
Issue Card Password	<ul> <li>This password is only for admin people or engineer.</li> </ul>			
	<ul> <li>It is 888888 by default.</li> </ul>			
	It can be used to go to the engineering interface, and it is 888888			
	by default.			
Project Password				
	Project password is only for admin people or engineers.			
First Unlock	You can connect a third-party phone such as SIP phone to your			
Command	VTO, and use the command to open the door remotely.			
Door Contact Type	Select <b>NC</b> or <b>NO</b> according to the lock you use.			
Public Unlock				
Password	Select the <b>Enable</b> check box, then configure the public unlock			
Public Unlock	password, and then all the residents in this unit can open the door			
Password Confirm	with this password.			

Parameter	Description
Menace Password	Under any of these two situations you can use menace password.
	• By default, the menace password is entering the public unlock password reversed.
	• You can configure any number as needed.
Menace Password	Once the duress password is used
Confirm	• When using VTO as SIP server, there will be an alarm record
	at Log Management > Alarm.
	• When using platform as SIP server, you can connect alarm
	output device to get alarm notice.

Step 3 Click Save.

### 4.3.2 RS485

This section introduces the access control configuration of RS-485 devices, including lock and lift control.

<u>Step 1</u> On the main interface (Figure 3-1), select Local Setting > Access Control > RS485.

The **RS485** interface is displayed. See Figure 4-4.

#### Figure 4-4 RS485

WEB SERVICE2.0	¢ Local Setting	Household Se	etting	Network Setting	Log Management
Basic	Interface Type	Lock 👻			
Video & Audio	Unlock Responding Interval		Sec.		
Access Control ^	Unlock Period		Sec.		
Local	Second Unlock Command				
RS485	Second Lock	Enable			Save Refresh Default

<u>Step 2</u> Configure parameters, and you can select **Lock** or **Lift Control** in the **Interface Type** list. For the detailed description, see Table 4-4.

Parameter		Description			
	Unlock Responding Interval	The time interval to unlock again after the previous unlock, and the unit is second.			
	Unlock Period	The time amount for which the lock stays open after unlock, and the unit is second.			
	Second Unlock	You can connect a third-party phone such as SIP phone to			
Lock	Command	your VTO, and use the command to open the door remotely.			
	Second Lock	<ul> <li>You can connect one more door to RS-485 device.</li> <li>If you select the Enable check box, then the second lock will be opened by default when pressing unlock button, swiping access card or using unlock password.</li> <li>If you do not select the Enable check box, then the first lock will be opened by default when pressing unlock button, swiping access card or using unlock password.</li> </ul>			
Lift	Lift Control	Select the protocol as needed to enable the lift control			
Control	Protocol	function, and then you can configure the floors that lift users			

Table 4-4 RS-485 access control parameter description

Parameter		Description
		can go to.
	Baud Rate	Enter the baud rate of the third party RS-485 device that you need.
	Data Bit	
	Check Bit	These items can be used for serial port debugging.
	Stop Bit	

Step 3 Click Save.

### 4.4 System

This section introduces how to configure the date format, time format, and the NTP server. <u>Step 1</u> On the main interface (Figure 3-1), select **Local Setting > System**.

The **System** interface is displayed. See Figure 4-5.

Figure 4-5 System

WEB SERVICE2.0	☆ Local Setting	Household Setting	Network Setting	Log Managemen	t
Basic					
	Data Formate Year-Mo	nth-Day 🔻		NTP Enable	
Video & Audio	Time Formate 24-Hour	Standard 🔻		NTP Server 200.160.0.8	
Access Control	System Time 2018-11	-01 🖬 19 : 52 : 39 Sync P	PC .	Zone GMT+08:00	
Local	DST ON	OFF		Port 123	
Luca	DST Type 🔵 Date	🔵 Week		Update Cycle 5	Min.
RS485	Begin Time May	▼ Last Week ▼ Monday ▼	00 : 00		
	End Time Oct	▼ Last Week ▼ Monday ▼	00 : 00		
Security					
security	Auto Maintenance Tuesday	▼ 02 : 00			
	SSH Enabl				
				Save	Refresh Default

<u>Step 2</u> Configure parameters, and for the detailed description, see Table 4-5.

	l able 4-5 System parameter description
Parameter	Description
Date format	You can select from Year-Month-Day, Month-Day-Year, and
Date Ionnat	Day-Month-Year.
Time format	Configure the time format, and you can select from 12-Hour or
Time format	24-Hour.
System Time	Configure the VTO system date, time and time zone.
	Do not change the system time arbitrarily; it might cause problems
	on video searching and publishing snapshot or notice. Before
	changing the system time, turn off video recording or auto snapshot.
Sync PC	Click to sync the VTO system time and the PC system time.

Sync PC	Click to sync the VTO system time and the PC system time.		
DST	Select <b>ON</b> to enable DST.		
DST Type	Select Date to define a specific date for DST or select Week for it.		
Begin Time	Configure the begin time and end time for DST.		
End Time			
NTP Enable	Select the check box to enable NTP timing.		

Parameter	Description
NTP Server	Enter the domain name of the NTP server.
Zone	The time zone of the current area.
Port	The port number of the NTP server.
Update Cycle	The time interval that the VTO syncs time with the NTP server, and it
	is 30 min at most.
Auto	Select the day and time for the auto maintenance, and the VTO will
Maintenance	reboot then.
SSH	Select the Enable check box, and then you can connect debugging
	devices to the VTO through SSH protocol.

Step 3 Click Save.

## 4.5 Security

<u>Step 1</u> On the main interface (Figure 3-1), select Local Setting > Security.

The **Security** interface is displayed. See Figure 4-6.

#### Figure 4-6 Security

WEB SERVICE2.0	<b>亞 Local Setting</b>	Household Setting	Network Setting	Log Management
Basic	Security			
Video & Audio	✓ CGI Enat ✓ Reset Pa			
Access Control V				Save Refresh Default
Security				

<u>Step 2</u> Configure parameters, and for the detailed description, see Table 4-6.

Table 4-6 Security parameter description
--

Parameter	Description
CGI Enable	Select the check box to enable, and then you can use CGI command.
Reset Password	Select the check box to enable, and then the password resetting is
	available.

Step 3 Click Save to save.

### 4.6 Wiegand

This section introduces how to configure the parameters for Wiegand devices.

<u>Step 1</u> On the main interface (Figure 3-1), select **Local Setting > Wiegand**.

The **Wiegand** interface is displayed. See Figure 4-7.

#### Figure 4-7 Wiegand

WEB SERVICE2.0	<b>☆Local Setting</b>	<b>≣</b> <sub>#</sub> Household Setting	Network Setting	Log Management
Basic	Wiegand			
Video & Audio	Mode 🔵 Input	<ul> <li>Output</li> </ul>		
Access Control	TransMode 34bit Trans			
	Pulse Step(µs) 1000			
System	Pulse Width(µs) 200			
Security				Save Refresh Default
Wiegand				

<u>Step 2</u> Configure parameters. See Table 4-7.

Parameter	Description	
Mode	Select Input or Output according to Wiegand device type.	
TransMode	Select transmitting speed from 34 bit, 66 bit, and 26 bit. The larger the	
	value is, the faster the transmission will be.	
Pulse Step (µs)	The Wiegand signal frequency, it is 1000 by default.	
Pulse Width (µs)	The max value of Wiegand signal, it is 200 by default.	
Chan D. Olials Cause	·	

Table 4-7 Wiegand parameter

Step 3 Click Save.

# 4.7 Face Recognition

### $\square$

Face recognition is available on select models.

This section introduces how to configure face recognition threshold, anti-false threshold, and face recognition angle.

#### <u>Step 1</u> Select Local Setting > Face Recognition.

The Face Recognition interface is displayed. See Figure 4-8.

Figure 4-8 Face recognition

WEB SERVICE2.0	<b>☆Local Setting</b>	Household	l Setting	Network Setting	Log Managemen		
Basic	Face Recognition						
Dasic							
Video & Audio	Face Threshold	90					
Access Control 🛛 🗸	Anti False Threshold						
<b>C</b> .	Face Recognition Angle						
System	Captured image threshold						
Security	Registered image threshold	75					
Wiegand					Save	Refresh	Default
Face Recognition							

<u>Step 2</u> Configure face recognition parameters. See Table 4-8.

Table 4-8 Face	recognition	parameter	description
	roooginaon	paramotor	accomption

Parameter	Description
Face Threshold	The larger the value is, the more similar the target and the saved face
Tace Theshold	data is required to open the door.
Anti False	The larger the value is, the less the chance that the system defines a
Threshold	target as human face, hence the more accurate it will be.
Face Recognition	The larger the value is, the larger the angle that the target is allowed to
Angle	turn his face during recognition.
Captured image	The quality of the captured images, the larger the value is, the better the
threshold	quality will be.
Registered image	The required image quality to register successfully, the larger the value is,
threshold	the better the quality is required to be.

Step 3 Click Save.



# **Household Setting**

This chapter applies to the condition in which the VTO works as SIP server (see 6.4 SIP Server), and it introduces how to add, modify, and delete VTO, VTH, VTS, and IPC devices, and how to send messages from the SIP server to other VTO and VTH devices. If you are using other servers as SIP server, see the corresponding manual for the detailed configuration.

# 5.1 VTO No. Management

### 5.1.1 Adding VTO

You can add VTO devices to the SIP server, and all the VTO devices connected to the same SIP server can make video call between each other.

<u>Step 1</u> Log in the web interface of the SIP server, and then select **Household Setting > VTO No. Management**.

The VTO No. Management interface is displayed. See Figure 5-1.

Figure 5-1 VTO No. management

WEB SERVICE2.0	袋 Local Setting	Household Setting	Network Setting	Log Mar	agement	
VTO No. Management	VTO No. Management					
Room No. Management	VTO No.	Build No.	Unit No.	IP Address	Modify	Delete
VTS Management					1	×
v i s management					1.	×
IPC Setting						
Status						
Publish Information $\checkmark$						
	Add Clear				4 4 1/1 ▶	⊮ Go to 🔤 ♦



The Add interface is displayed. See Figure 5-2.

aktiad) 		
•••••		
	Save	Cancel

Figure 5-2 Add VTO

Step 3 Configure the parameters, and be sure to add the SIP server itself too. See Table 5-1.

	····· · · · · · · · · · · · · · · · ·				
Parameter	Description				
Rec No.	The VTO number you configured for the target VTO. See the				
Rec no.	details in "Table 4-1."				
Register Password	Keep default value.				
Build No.	Available only when other conversions work on CID conver				
Unit No.	Available only when other servers work as SIP server.				
IP Address	The IP address of the target VTO.				
Username	The user name and password for the WEB interface of the				
Password	target VTO.				

Table 5-1 Add VTO configuration

Step 4 Click Save.

### 5.1.2 Modifying VTO

 $\square$ 

The VTO that is currently at use cannot be modified or deleted.

Step 1 On the VTO No. Management interface (Figure 5-1), click

The **Modify** interface is displayed. See Figure 5-3.

	,		
Modify			
Rec No.			
Register Password	•••••		
Build No.			
Unit No.			
IP Address			
Username	admin		
Password	•••••		
		Save	Cancel

Figure 5-3 Modify VTO

<u>Step 2</u> You can modify the **Rec No.**, **Username**, and **Password**. See Table 5-1 for the details. <u>Step 3</u> Click **Save**.

### 5.1.3 Deleting VTO

 $\square$ 

The VTO that is currently at use cannot be modified or deleted.

On the **VTO No. Management** interface (Figure 5-1), click **to** delete VTO one by one; and

click **Clear** to delete all the VTO.

### 5.2 Room No. Management

### 5.2.1 Adding Room Number

You can add the planned room number to the SIP server, and then configure the room number on VTH devices to connect them to the network.

<u>Step 1</u> Log in the web interface of the SIP server, and then select **Household Setting > Room No. Management**.

The Room No. Management interface is displayed. See Figure 5-4.

Figure 5-4 Room No. Management						
VEB SERVICE2.0	¢ Local Settin	g 🎚 Housel	hold Setting 💿	Network Setting	Log Management	
VTO No. Management	Room No. Management					
Room No. Management	Room No.	First Name	Last Name	Nick Name	Register Type	Modify
VTS Management	201				public	× ×
IPC Setting						
Status						
Publish Information $~~$						
	Add Refresh	Clear				1/1 ⊨ ⊯ Go to
	Unit Layer Amount	30		Room Amount in One Layer		
	First Floor Number	101		Second Floor Number	201	

Figure 5-4 Room No. Management

<u>Step 2</u> You can add single room number or do it in batch.

Add single room number •

Add

- Click the Add at the mid lower position. 1)
- The Add interface is displayed. See Figure 5-5. Figure 5-5 Add single room number

Add					
First Name		Username	Card No.	Modify	
Last Name					
Nick Name					
Room No.					
Register Type	public 🔻				
Register Password	•••••		No data		
			Issu	ue Card	
				Save	Cancel
				Jave	Calicer

2) Configure room information, and for the detailed description. See Table 5-2.

Table 5-2 Roo	m information
---------------	---------------

Parameter	Description			
First Name				
Last Name	Enter the information you need to differentiate each room.			
Nick Name				
Room No.	The room number you planned.			
Register Type	Select <b>public</b> , and <b>local</b> is reserved for future use.			

Parameter	Description
Register Password	Keep the default value.

3) Click Save.

The added room number is displayed. Click *lack* to modify room information, and click

- Adding room number in batch
- 1) Configure the Unit Layer Amount, Room Amount in One Layer, First Floor Number, and Second Floor Number according to the actual condition.
- Click the Add at the bottom position.
   All the added room numbers are displayed. Click Refresh to view the latest status, and click Clear to delete all the room numbers.

### 5.2.2 Modifying Room Number

<u>Step 1</u>	On the F	Room No. N	lanagement	interface (	Figure 5-4), c	lick 🧹.	
	The <b>Modify</b> interface is displayed. See Figure 5-6. Figure 5-6 Modify room number						
		I	Igure 5-0 Mic		lumber		
Modify							×
	First Name	mm		Username	Card No.	Modify	
	Last Name	mm					
	Nick Name	mm					
on Y	Register Type	public 🔻					
Re	egister Password	•••••					
					No data		
						Issue Card	
						Save	Cancel

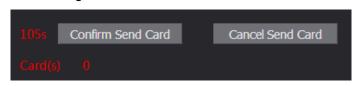
<u>Step 2</u> You can modify the names for the room. See Table 5-2 for the details. <u>Step 3</u> Click **Save**.

### 5.2.3 Issuing Access Card

You can issue card to a room, and can also set it to be the main card, or to the lost state.

<u>Step 1</u> On the Modify room number interface (Figure 5-6), click **Issue Card**. The countdown notice is displayed. See Figure 5-7.

Figure 5-7 Countdown notice



<u>Step 2</u> Swipe the card that needs to be authorized on the VTO, and then the **Issue Card** dialogue box is displayed. See Figure 5-8.

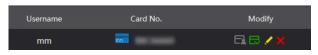
Figure 5-8 Issue Card

Issue curu		~
Card No.		
Room No.	201#0	
Username		
	Save	Cancel
	- Caro	Cancer

<u>Step 3</u> Enter the name you need, then click **Save**, and then click **Confirm Send Card** at the countdown notice (Figure 5-7).

The issued access card is displayed. See Figure 5-9.

Figure 5-9 Issued access card



<u>Step 4</u> You can configure the access card.

- Click 🖾 to set it to the main card, and then the icon turns into 🖾. The main card can be used to issue access card for this room on the VTO. Click again to resume.
- Click construction to the lost state, and then the icon turns into . The card under lost state cannot be used to open the door. Click again to resume.
- Click do modify the user name.
- Click to delete the card.

### 5.3 VTS Management

You can add VTS device to the SIP server, and the VTS can be used as the management center. It can manage all the VTO and VTH devices in the network, make or receive video call from them, and make basic configurations. For the detailed introduction, see the corresponding user's manual.

<u>Step 1</u> Log in the web interface of the SIP server, and then select **Household Setting > VTS** Management

The VTS Management interface is displayed. See Figure 5-10.

Figure 5-10 VTS management
----------------------------

WEB SERVICE2.0	<b>☆ Local Setting</b>	Household Setting	() Network Setting	Log Management	
VTO No. Management	VTS Management				
Room No. Management	VTS No.		IP Address	Modify	Delete
VTS Management					
IPC Setting					
Status					
Publish Information $~~$					
			No data		
	Add				▶ ⊨ Go to ⇒



The Add interface is displayed. See Figure 5-11.

Figure 5-11 Add VTS

•			
Add			×
VTS No.			
Register Password	•••••		
IP Address			
		Save	Cancel

- <u>Step 3</u> On VTS, select **Config > Advance Config**, then enter the password (123456 by default), and then select **SIP Server**, the **VTS No.** is displayed as **User Name** (normally it is 888888XXX).
- <u>Step 4</u> Configure the parameters, and for the detailed description, see Table 5-3.

Parameter	Description
VTS No.	The VTS number you configured for the target VTS.
Register Password	Keep default value.
IP Address	The IP address of the target VTS.

Table 5-3 Add VTS configuration

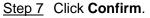
Step 5 Click Save, and then the added VTS is displayed. Click I to modify IP address, and

click **K** to delete.

<u>Step 6</u> Select Local Setting > Basic, then enter the VTS No. of the added VTS at Center Call No., and then you can call the VTS by pressing the call center button on the VTO. See Figure 5-12.

Figure	5-12	Center	call	No.
i igaio	0 12	0011101	oun	

WEB SERVICE2.0	☆Local Setting	Household Setting	Network Set	ting Log Managemen
	Device Properties			
Video & Audio	Device Type	Unit Door Station 🔻	Centre Call No.	888888
	VTO No.	8001		



### 5.4 IPC Setting

You can add IPC, NVR, HCVR, and XVR to the SIP server, and then all the connected VTH can do monitor with the added cameras.

<u>Step 1</u> Log in the web interface of the SIP server, and then select Household Setting > IPC

Setting

The **IPC Setting** interface is displayed. See Figure 5-13.

WEB SERVICE2.0	¢ Local	Setting	Househo	ld Setting	Netv	vork Setting	<u> </u>	og Managemen	t	
VTO No. Management	IPC Setting									
Room No. Management	IPC Name	IP Addr.	Username	Port No	Protocal	Stream	Channel	Device Type	Modify	Delete
VTS Management			admin	554	Local	Main		IPC	1	× ^
v is management		0.0.0.0	admin	554	Local	Extra1		IPC	1	×
IPC Setting		0.0.0.0	admin	554	Local	Extra1		IPC	1	×
Status		0.0.0.0	admin	554	Local	Extra1		IPC	1	×
		0.0.0.0	admin	554	Local	Extra1		IPC	1	×
Publish Information Y		0.0.0.0	admin	554	Local	Extra1		IPC	1	×
		0.0.0.0	admin	554	Local	Extra1		IPC	1	×
		0.0.0.0	admin	554	Local	Extra1		IPC	1	×
		0.0.0.0	admin	554	Local	Extra1		IPC	1	×
		0.0.0.0	admin	554	Local	Extra1		IPC	1	×
		0.0.0.0	admin	554	Local	Extra1		IPC	1	×
		0.0.0.0	admin	554	Local	Extra1		IPC	1	×
		0.0.0.0	admin	554	Local	Extra1		IPC	1	×
		0.0.0.0	admin	554	Local	Extra1		IPC	1	×
					Import Co	nfig Exp	ort Config	Refresh	D	efault

Figure 5-13 IPC setting

Step 2 The total quantity of the device you can add is fixed. and you can click read to add the device you need.

The **Modify** interface is displayed. See Figure 5-14.

	Figure a	5-14 Auu I	FC		
Modify	, Podeblo ,	noiod'i N	la de la companya de	>	<
admin					
actorin	IPC Name				
a drom	IP Addr.				
adunin Ladunin	Username	admin			
admin	Password	•••••			
admin	Port No	554			
admin	Protocal	Local	-		
admin	Stream	Main	-		
adunin	Channel	1			
gadmin	Device Type	IPC	-		
hadmin					
admin			1 E	stral	
admin			Save	Cancel	

Figure 5-14 Add IPC

Step 3 Configure the parameters, and for the detailed description, see Table 5-4.

#### Table 5-4 Add IPC configuration

Parameter	Description
IPC Name	Enter the name of the device you need.
IP Addr.	The IP address of the device.
Username	The user name and password for the web interface of the
Password	device.
Port No.	Keep default value.
Protocol	Select from Local or Onvif.
Stream	Select from Main or Extra1, and the main stream has better
Stream	image quality, but also costs more bandwidth.
Channel	Define a channel for the device.
Device Type	Select from IPC, NVR, HCVR, and XVR as needed.

Step 4 Click Save, and then the added device is displayed. Click 🜌 to modify, and click 🎽

to delete.

You can also click **Export Config** to export the current devices to the local PC, or click **Import Config** to import the existed configuration.

### 5.5 Status

You can view the working state and IP address of all the connected devices.

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

The **Status** interface is displayed. See Figure 5-15.

Figure	5-15	Status
inguio	0.10	oluluo

WEB SERVICE2.0	袋 Local Setting	Household Settin	ng 💿 Network Sett	ing 🗾 Log Manage	ement
VTO No. Management	Status				
Room No. Management	Room No.	Status	IP:Port	Reg Time	Off Time
	201#0	Online		2018-10-09 02:01:58	
VTS Management	201#1	Online		2018-10-09 02:02:11	
IPC Setting		Online		2018-10-09 02:02:15	
		Online		2018-10-09 02:06:20	
Publish Information 💙					i i i 1/1 ⊳ ⊨ Go to

## 5.6 Publish Information

You can send messages from the SIP server to other VTH devices, and view the message sending history.

### 5.6.1 Send Info

<u>Step 1</u> Log in the web interface of the SIP server, and then select **Household Setting > Publish Information > Send Info**.

The **Send Info** interface is displayed. See Figure 5-16.

Figure 5-16 Send Info

WEB SERVICE2.0	<b>⇔</b> Local Setting	Household Setting	Network Setting	Log Management
VTO No. Management	Period of validity 2018-10-	09 🖬 23:59:59 💿		
	Send to	All devices		
Room No. Management				
VTS Management	Title			
	Content	^		
IPC Setting				
Status				
Publish Information \land				
Send Info				
History Info		÷		
				Confirm Refrest

- <u>Step 2</u> Enter the target VTO No. or select **All device** to send the message to all the devices in the network, and then the title and content of your message.
  - If you want to send information to more than one VTH, VTH numbers should be separated by semicolons. For example if you enter 101; 102; 103 and more, and VTH of these VTH numbers will receive information sent by the VTO.
  - The Period of validity is reserved for future use.
- Step 3 Click Confirm.

### 5.6.2 History Info

Log in the web interface of the SIP server, and then select **Household Setting > Publish Information > History Info**.

The History Info interface is displayed. See Figure 5-17.

WEB SERVICE2.0	☆ Local Setting	Be Household Setting	Network Setting	Log Management
VTO No. Management	IssueTime	Period of validity		Delete
Room No. Management	2018-10-09 16:52:31	2018-10-09 16:54:00		
VTS Management	2018-10-09 16:52:31	2018-10-09 16:53:00		
IPC Setting	2018-10-09 03:15:38	2018-10-09 16:52:00		
Status				
Publish Information \land				
Send Info				
History Info				
				⊨ ⊲ 1/1 ⊨ ⊨ Go to

Figure 5-17 History info

You can view the time and title of the sent messages.

### 5.7 Face Management

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

 $\square$ 

- Face recognition is available on select models.
- The VTO can save 10,000 faces at most.

Select Household Setting > Face Management.

The Face Management interface is displayed. See Figure 5-18.

Figure 5-18 Face management

WEB SERVICE2.0	袋Local Setting	Household Sett	ing 🔇	Network Setting	Log Management	
VTO No. Management	Face Management					
Room No. Management		Room No.	Username	Personnel No.	Modify	Delete
		101		L101_1540223183	1	X
VTS Management		101		L101_1540223188	1.	×
IPC Setting		101		L101_1540223193	1	×
Status		101		L101_1540223198	1.	×
		101		L101_1540223211	1	×
Publish Information \land		101		L101_1540223216	1.00	×
Send Info			10020013.jpg	100000013	1	×
History Info		14	10020014.jpg	100000014	1	×
			10020015.jpg	100000015	1	×
			10020016.jpg	100000016	1	×
			10020017.jpg	100000017	1	×
		18	10020018.jpg	100000018	1.00	×
			10020019.jpg	100000019	1	×
	14	20	10020020.jpg	100000020	1	×
	Face Info Export Face Info	Import Remove Al	I		4 4 1/10	000 ⊩ ⊨ Go to +

### 5.7.1 Exporting Face Data

Step 1 Click Face Info Export.

The **Export Config** interface is displayed. See Figure 5-19.

Figure 5-19 Export config

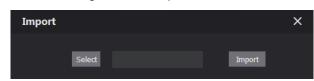
Export Config	Romani	×
Password		
101		
101		
	Save	Cancel

<u>Step 2</u> Enter the password for the Web interface, and then click **Save** to export face data.

### 5.7.2 Importing Face Data

- Step 1 Click Face Info Import.
- <u>Step 2</u> Enter the password for the Web interface, and then click **Save**. The Import interface is displayed. See Figure 5-20.

Figure 5-20 Import



Step 3 Click Select, and then select the file you need.

Step 4 Click Import.

### 5.7.3 Deleting Face Data

Click to delete single face data.

Click **Remove All** to delete all the face data.



# **Network Setting**

This chapter introduces how to configure IP address, FTP, SIP server, DDNS, and UPnP.

### 6.1 Basic

### 6.1.1 TCP/IP

You can modify the IP address and port number of the VTO.

<u>Step 1</u> Select **Network Setting > Basic**.

The TCP/IP information and port information are displayed. See Figure 6-1.

	Figu	re 6-1 TCP/IP and	d port		
WEB SERVICE2.0	☆ Local Setting	Household Setting	Network Setting	Log Management	
Basic	ТСР/ІР				
FTP	IP Addr.				
UPnP SIP Server	Subnet Mask Gateway MAC Addr.				
IP Permissions	Preferred DNS 8.8.8.8 Alternate DNS 8.8.8.8				
	Port				
	Port 80 HTTPS Port 443 Watering The dealer Create Server CERT	Enable Enable Download Root CERT			
				Save Refresh	Default

<u>Step 2</u> Enter the network parameters and port number you planed, and then click **Save**. The VTO will reboot, and you need to modify the IP address of your PC to the same network segment as the VTO to log in again.

### 6.1.2 HTTPS

Select the **Enable** check box at **HTTPS Port**, and then the VTO will reboot. After rebooting, you can log in the VTO by entering "https:// VTO IP address" in the address bar of the explorer.

## 6.2 FTP

Configure FTP server, and then you can save the recorded videos and snapshots to the FTP server.

#### <u>Step 1</u> Select **Network Setting > FTP**.

The **FTP** interface is displayed. See Figure 6-2.

Figure 6-2 FTP

WEB SERVICE2.0	☆ Local	Setting	Household Setting	Network Setting	Log Management
Basic		🗹 Enable			
	Name	FTP1			
	IP Addr.				
UPnP	Port				
SIP Server	Username	test			
	Password	•••••			
IP Permissions					
					Save Refresh Defaul

<u>Step 2</u> Configure parameters. See Table 6-1.

Table 6-1 FTP parameter description

Parameter	Description			
Enable	Select the check box to enable FTP function.			
Name	Enter the name of the FTP server as needed.			
IP Addr.	The IP address of the FTP server.			
Port	It is 21 by default.			
Username	The upperforme and personword of the ETD conver			
Password	The username and password of the FTP server.			

Step 3 Click Save.

# 6.3 UPnP

Universal Plug and Play, a protocol that establishes mapping relation of ports in LAN and WAN. This function enables you to visit local area device through wide area network.



• This function is valid only when VTO works as SIP server.

This function is needed only when the VTO is connected to a router with UPnP function.

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

The **UPnP** interface is displayed. See Figure 6-3.

	交 Local Setting	<b>≣</b> Ho	ousehold Setting	Network	c Setting	Log Mana	gement	
Enab	le							
	Service Name	Service Type	Protocol	Internal Port	External Port	Status	Modify	Delete
	нттр	WebService	тср	80	8080	Failed	1	
	тср	PrivService	тср	37777	37777	Failed	1	
	UDP	PrivService	UDP	37778	37778	Failed	1	
	RTSP	RTSPService	тср	554	554	Failed	1	
	PrivService		тср	18877	18877	Failed	1	
	SIP		UDP	5060	5060	Failed	1	
	Rtp		UDP	15001	15001	Failed	1	
	Rtp		UDP	15002	15002	Failed	1	
	Rtp		UDP	15003	15003	Failed	1	
	Rtp		UDP	15004	15004	Failed	1	
	Rtp		UDP	15005	15005	Failed	1	
	Rtp		UDP	15006	15006	Failed	1	
	Rtp		UDP	15007	15007	Failed	1	
	Rtp		UDP	15008	15008	Failed	1	
	Enable V V V V V V V V V V V V V V V V V V V	Enable       Service Name       HTTP       TCP       TCP       TCP       TCP       PrivService       PrivService       Rtp       Rtp	Enable       Service Name       Service Type         Image: Constraint of the service of the ser	Enable       Enable       Service Name     Service Type     Protocol       HTTP     WebService     TCP       TCP     PrivService     TCP       TCP     PrivService     UDP       RTSP     RTSPService     TCP       PrivService     TCP       Rtp     UDP       <	Enable       Service Name       Service Type       Protocol       Internal Port         Image: Constraint of the service       TCP       80         Image: Constraint of the service       TCP       37777         Image: Constraint of the service       TCP       37778         Image: Constraint of the service       TCP       554         Image: Constraint of the service       TCP       18877         Image: Constraint of the service       TCP       15001         Image: Constraint of the service       TCP       15002         Image: Constraint of the service       TCP       15005         Image: Constraint of the service       TCP       15006         Image: Constraint of the service       TCP	Enable       Service Name       Service Type       Protocol       Internal Port       External Port         Image: Constraint of the service of the service Name       Service TCP       80       8080         Image: TCP       PrivService       TCP       37777       37777         Image: UDP       PrivService       UDP       37778       37778         Image: UDP       PrivService       UDP       37778       37778         Image: TCP       RTSP       RTSP       TCP       554       554         Image: PrivService       TCP       18877       18877       18877         RTSP       RTSP       UDP       5060       5060         Rtp       UDP       15001       15001         Rtp       UDP       15002       15002         Rtp       UDP       15003       15003         Rtp       UDP       15004       15004         Rtp       UDP       15005       15005         Rtp       UDP       15005       15005         Rtp       UDP       15006       15006         Rtp       UDP       15007       15007	Enable       Service Name       Service Type       Protocol       Internal Port       External Port       Status         MITP       WebService       TCP       80       8080       Failed         TCP       PrivService       TCP       37777       37777       Failed         UDP       PrivService       UDP       37778       Status         RTSP       RTSPService       UDP       37778       Failed         PrivService       TCP       18877       18877       Failed         SIP       UDP       5060       5060       Failed         Rtp       UDP       15001       15001       Failed         Rtp       UDP       15002       15002       Failed         Rtp       UDP       15003       15003       Failed         Rtp       UDP       15005       15005       Failed         Rtp       UDP       15005       15005       Failed         Rtp       UDP       15005       15005       Failed         Rtp       UDP       15006       15005       Failed         Rtp       UDP       15005       15005       Failed         Rtp       UDP       15006	Enable       Service Name       Service Type       Protocol       Internal Port       External Port       Status       Modify         MITP       WebService       TCP       80       8080       Failed       /         TCP       PrivService       TCP       37777       Failed       /         UDP       PrivService       UDP       37778       Failed       /         IUDP       PrivService       UDP       37778       Failed       /         PrivService       UDP       554       554       Failed       /         Failed       UDP       18877       18877       Failed       /         SIP       UDP       5060       5060       Failed       /         Rtp       UDP       15001       15001       Failed       /         Rtp       UDP       15002       15002       Failed       /         Rtp       UDP       15003       15003       Failed       /         Rtp       UDP       15005       15005       Failed       /         Rtp       UDP       15005       15005       Failed       /         Rtp       UDP       15006       15005       Failed

Figure 6-3 UPnP

<u>Step 2</u> Select the **Enable** checkbox to enable UPnP function.

<u>Step 3</u> There have been some mapping relations done in the factory, and you can click **I** to modify them. Or you can click **Add** to add a new one.

The Modify/Add interface is displayed. See Figure 6-4.

Figure 6-4 Modify/Add UPnP

		niemal Eest	×
ТСР			
- Eq.P	ON (	OFF	
Service Name			
Service Type			
Protocol	ТСР	-	
Internal Port			
External Port			
UCP			
		Save	Cancel

<u>Step 4</u> Configure parameters. See Table 6-2.

Parameter	Description
ON/OFF	Select <b>ON</b> to enable this mapping relation.
Service Name	The name of the service.
Service Type	Define the type of the service as needed.
Drotocol	You can select from <b>TCP</b> and <b>UDP</b> . For the transmission stability,
Protocol	TCP is recommended.

Parameter	Description	
Internal Port	The port on the local area VTO that you need to visit.	<ul> <li>Try to use port number between 1024 to 5000 and not between 1 to 255 and 256 to 1023 when mapping ports with router to avoid conflict.</li> <li>When mapping multiple devices to</li> </ul>
External Port	The port on the router that the VTO port is being mapped to.	<ul> <li>the external ports, do the planning in advance to avoid mapping different devices to the same external port.</li> <li>Make sure the ports you are using are not being used or constrained.</li> <li>The external ports of TCP and UDP must be the same.</li> </ul>

Step 5 Click Save.

Open the web browser on PC and enter "http:// WAN IP address: external port number", and then you can visit the local area device with corresponding port.

### 6.4 SIP Server

The SIP server is required in the network to transmit intercom protocol, and then all the VTO and VTH devices connected to the same SIP server can make video call between each other. You can use VTO device or other servers as SIP server.

#### Step 1 Select Network Setting > SIP Server.

The SIP Server interface is displayed. See Figure 6-5.

Figure 6-5 SIP Server

WEB SERVICE2.0	交 Local Sett	ting 📕	Household Setting	Network Setting	Log Management
Basic					
	SIP Server	🗹 Enable			
FTP	Server Type				
UPnP	IP Addr.				
	Port				
SIP Server	Username				
IP Permissions	Password	•••••			
	SIP Domain				
	SIP Server Username				
	SIP Server Password	•••••			
					Save Refresh Default

<u>Step 2</u> Select the server type you need.

• If the VTO you are visiting works as SIP server

Select the Enable check box at SIP Server, and then click Save.

The VTO will reboot, and after rebooting, you can then add VTO and VTH devices to this VTO. See the details in "5 Household Setting."

 $\square$ 

If the VTO you are visiting does not work as SIP server, do not select the **Enable** check box at **SIP Server**, otherwise the connection will fail.

• If other VTO works as SIP server

Select **VTO** in the **Server Type** list, and then configure the parameters. See Table 6-3.

Parameter	Description					
IP Addr.	The IP address of the VTO which works as SIP					
IP Addi.	server.					
Port	5060					
Username	Keen the default value					
Password	Keep the default value.					
SIP Domain	VDP					
SIP Server Username	The user name and password for the web					
SIP Server Password	interface of the SIP server.					

Table 6-3 SIP server configuration

If other servers work as SIP server
 Select the server type you need at Server Type, and then see the corresponding manual for the detailed configuration.

### 6.5 IP Permissions

To enhance network and data security, you need to configure access authority for different IP addresses.

<u>Step 1</u> Select **Network Setting > IP Permissions**.

The IP Permissions interface is displayed. See Figure 6-6.

Figure 6-6 IP Permissions

WEB SERVICE2.0	☆ Local Setting	Household Setting	Network Setting	Log Management	ı
	IP Permissions				
Basic					
FTP	OFF Confirm				
UPnP	White List Black List				
		IP Addr.		Modify	Delete
SIP Server					
IP Permissions					
			No data		
			NO Udid		
	Add Refresh Default	•			
	Adu Kerresn Derault				

### Step 2 Click OFF

The White List option and Black List option are displayed. See Figure 6-7.

Figure 6-7 White List and Black List



You can only use one of them at the same time.

- White list: only the IP addresses in the list can login the VTO.
- Black list: all the IP addresses in the list are prohibited from logging in the VTO.

Step 3 Select White List or Black List.

• If you need to use black list, select **Black List**, and then click **Confirm**.

• If you need to use white list, select **White List**, and then add an IP address or IP section in the white list before clicking **Confirm**.

#### Step 4 Click Add.

The Add interface is displayed. See Figure 6-8.

Figure 6-8 Add IP address

Add					×
	IP Address	-	IP Addr.		
				Save	Cancel

Step 5 You can select and enter single IP address or an IP section, and then click **Save**.



You can view call history, alarm record, unlock record and various system logs.

## 7.1 Call

You can view the call type, room number, begin time, talk time, and end state.

Select Log Management > Call.

The **Call** interface is displayed. See Figure 7-1.

Figure 7-1 Call

WEB SERVICE2.0	<b>⇔</b> Local Setting		Household Setting	Network Setting	Log Management	
Call						
		Call Type	Room No.	Begin Time	Talk Time(Min.)	End State
Alarm		Incoming		2018-09-27 15:20:51	00:03	Received
Unlock		Outgoing		2018-09-27 15:20:49	00:02	Received
Log		Outgoing	201	2018-09-27 15:10:25	00:00	Missed
LOG		Outgoing	201	2018-09-27 14:59:53	00:00	Missed
		Outgoing	201	2018-09-27 14:59:43	00:00	Missed
		Outgoing	201	2018-09-27 14:59:33	00:00	Missed
		Outgoing	201	2018-09-27 14:58:56	00:00	Missed
		Outgoing	201	2018-09-27 14:58:02	00:00	Missed
		Incoming		2018-09-27 14:57:52	00:04	Received
	Export Data					ia a 1/2 ⊨ ⊨ Go to

Click **Export Data** to export the records to your PC.

## 7.2 Alarm

This function is displayed only when the VTO you are visiting works as SIP server, and you can view the VTO and VTH alarm record and duress password alarm record.

#### Select Log Management > Alarm.

The Alarm interface is displayed. See Figure 7-2.

Figure 7-2 Alarm

WEB SERVICE2.0	☆ Local S	Setting	Household Setting	Network Setting	Log Management
Call	No.	Room No.	Event State	Channel	Begin Time
Alarm	1	12	Prevent Remove		2018-10-09 02:01:41
Unlock	2	12	Prevent Remove		2018-09-27 14:55:21
OTHOCK		12	Prevent Remove		2000-01-08 14:13:18
Log		12	Prevent Remove		2000-01-01 00:14:32
			Menace		2000-01-01 00:00:56
			Menace		2000-01-01 00:00:40
			Door Magnetism		2000-01-01 00:00:06
	Export Data				⊯ ≼ 1/1 ≽ ⊨ Go to #

Click Export Data to export the records to your PC.

# 7.3 Unlock

You can view various unlock records, including access card unlock, password unlock, remote unlock, and press button unlock.

#### Select Log Management > Unlock.

The Unlock interface is displayed. See Figure 7-3.

Figure 7-3 Unlock

WEB SERVICE2.0	☆ Local Setting		Household Setting		Network Setting		anagement
Call							
Can		Unlock Type	Room No.	Username	Card No.	Unlock Result	Unlock Time
Alarm		Card Unlock	201	mm	bbc66660	Succeeded	2018-10-10 10:49:34
		Card Unlock	201	mm	bbc66660	Succeeded	2018-10-09 01:41:35
		Card Unlock			bbc66660	Failure	2018-10-09 01:41:28
Log		Card Unlock	201	mm	bbc66660	Succeeded	2018-10-09 01:31:02
		Password Unlock				Succeeded	2018-09-29 13:50:46
		Password Unlock	88888			Failure	2018-09-27 14:55:59
		Password Unlock	8001			Failure	2018-09-27 10:27:51
		Self Password Unlock	Center			Failure	2018-09-27 10:18:56
		Password Unlock				Failure	2000-01-01 00:00:59
	Export Data						H ≼ 1/4 ▶ H Go to

Click Export Data to export the records to your PC.

# 7.4 Log

You can view various system logs, including system, record, config, account, and security.

#### <u>Step 1</u> Select Log Management > Log.

The Log interface is displayed. See Figure 7-4.

Figure 7-4 Log

WEB SERVICE2.0	☆ Local	Setting House	hold Setting	Network Setting	Log Management	
Call	Time Range	2018-10-10 00:00:00 ⊙	2018-10-11 00:00:00			
Alarm	Туре	Al 👻 Search	Found: 21 Records 00:00:00	Record Time: 2018-10-10 00:00:0	0-2018-10-11	
Unlock		Record Time			Event	
		2018-10-10 11:20:05			Save Config	
		2018-10-10 11:19:54			Save Config	
		2018-10-10 11:19:11			Save Config	
		2018-10-10 11:19:11			Save Config	
		2018-10-10 11:18:27			Save Config	
		2018-10-10 11:18:10			Save Config	
		2018-10-10 11:02:16			Save Config	
		2018-10-10 11:01:43			Start	
		2018-10-10 11:00:49			Reboot	
	10	2018-10-10 11:00:49			Clear Record	
	Log Info					
	Record Time:					
	Туре:					
	Detail:					
	Export Data					∢ 1/3 ▶ ⊨ Go to 🛛 🖷

<u>Step 2</u> Configure the time range, then select the log type you need, and then click **Search**. Click **Export Data** to export the records to your PC.