Villa VTO

User's Manual



Foreword

General

This manual introduces the installation, functions and operations of the villa door station bassline (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
V1.0.1	Revised facade layout description.	November 2022
V1.0.0	First release.	April 2020

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



- 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.
- 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

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

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

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1 Initialization

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

- <u>Step 1</u> Power on the VTO.
- <u>Step 2</u> Go to the default IP address (192.168.1.108) of the VTO, and then press **Enter**.

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



Device Init			×
1	2	3	
One	Тwo	Three	
Username	e admin		
Password	ł		
I	Low Middle	High	
Confirm Password	ł		
	Next		

- <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.
- <u>Step 5</u> Click **Next**. The initialization succeeded.
- Step 6 Click OK.

Figure 1-2	Login	interface
------------	-------	-----------

WEB SERVICE2.0
Username
Password
Forget Password?
Login

2 Login Page

2.1 Login

Before login, make sure that the PC and VTO are on the same network segment.

<u>Step 1</u> Enter the VTO IP address in the browser address bar, and then press **Enter**.

Figure 2-1 Login interface

L	WEB SERVICE2.0
	Username
	Password
	Forget Password?
	Login

<u>Step 2</u> Enter **admin** as username, then enter 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?**. Figure 2-2 Reset the password (1/3)



Step 2 Click Next.

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

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 support to com.	
Enter security code :	The security code will be delivered to : 1***@qq.com	
Cancel	Next	

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

 \square

- If you did not configure email during initialization, contact the supplier or customer service for help.
- To obtain security code again, refresh QR code page.
- 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**.

3 Home Page

Log in to the web page of the VTO, and then the home page is displayed.

Figure 3-1 Home page

			Friglish -	1 - 2 + 6
VTO	Bulking No. : 0 Device Type : Villa Station	Unik No. : 0 No. : 8001		
Software Version Info Security Baseline Version		Verve Info 👻 Expert Config Insert Config 3		
tacal S VTS rela	etting industorys	Household Setting Room No., use right and IPC incrugement.		
Netwo	ik	Log Management Unicol, call, alern and system herory.		

Table 3-1 Home page introduction

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

4 Local Setting

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

General operations:

- After 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

4.1.1 Device Properties & Events

This section introduces the configuration of VTO device type, VTO number, and auto storage.

<u>Step 1</u> On the home page, select **Local Setting > Basic**.

Figure 4-1 Basic

WEB SERVICE2.0	☆ Local Setting	Household Set	ting 🔘 Network	Log Management	English 👻	\$↑ €
Basic	Device Properties					
Dusic	Device Type	Villa Station 🔻	Centre Call No.	888888		
Video & Audio	No.	8001	Call Centre Time		- 23:59:59	O
Access Control 💙	Group Call					
System						
Security						
Onvif User	Events					
	Storage I	Point SD Card	▼			
	SD Total Cap	acity 0	м			
	SD Used Cap	acity ₀	м			
		Format				
		card if it can not be re				
	Auto Snapshot(un					
	Auto Snapshot(tal					
	Leave Message Up	oload 🔵 ON 🛛 💿 Ol	FF			
	Please backup	regularly to avoid data	a loss.			

Step 2 Configure parameters.

Table 4-1 Basic parameter descri	ption
----------------------------------	-------

Parameter	Description
Device Type	 Keep the default value. Building number and unit number are available only when other servers work as SIP server. See "6.2 SIP Server."

Parameter	Description
	• Fence station is normally used when other servers work as SIP server.
	Configure the number of the management centre, and you can call the
Centre Call No.	management centre on every VTO or VTH in the network. The default number
	is 888888.
Call Centre Time	Time period in which you are allowed to call the management centre.
	The VTO number can be used to differentiate each VTO, and it is normally
VTO No.	configured according to unit or building number. You can add VTO devices to
	the SIP server with their numbers.
	All the snapshots would be saved to the SD card in the villa station
	automatically.
	Auto Snapshot (unlock)
	Select ON to enable this function, and then the system takes snapshot every
	time when the door is unlocked.
	Auto Snapshot (talking)
	Select ON to enable this function, and then the system takes snapshot every
	time when VTH user answers a call from the VTO.
Storage Point	Messages
	Select ON to enable this function, and then the system uploads the messages
	from visitors to the SD card automatically.
	• If there is an SD card in the main VTH, the left messages would be saved t
	the SD card of the main VTH by default.
	• To receive message, the VTO Message Time must be configured to b
	more than 0. See the VTH user's manual.

4.1.2 Facade Layout (Only for VTO3211D)

If you select 1 form the **Count** drop-down list, only the third button will be valid; if you select 2, only the second and the fourth buttons will be valid; and if you select 4, all the four buttons will be valid.



4.2 Video & Audio

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

<u>Step 1</u> On the home page, select **Local Setting > Video & Audio**.

Figure 4	4-3	Video	& au	dio
----------	-----	-------	------	-----

WEB SERVICE2.0	₿Local Setting	Household Setting	۲	Network	Log Ma	inagement	English
Basic	Video & Audio						
Video & Audio	-	Main Stream			Sub Stream		
Access Control		Video Format 7	720P		Video Format	Œ۴	-
		Frame Rate	25		Frame Rate		-
Local		Bitrate Rate	2Mbps		Bitrate Rate	256Kbps	-
R\$485	Please click here to download and install th plug-in.	ne Status			Image		
System		Scene Mode	Nuto		Brightness		52
5. S.		Backlight Mode g	Disabled		Contrast		52
Security		Light Mode J	Auto		Hue		50
Onvif User		Video Standard p	PAL		Saturation		50
					Gamma		50
					Mirror	O ON OFF	
					Flip		
					тар		
							Default
		Audio Control			Volume Control		
		Voice Prompt So	und Enable		Microphone Volume —		
		Ringback So	und Enable		Beep Volume 🗕		80
		Un	lock Enable				
		A	larm Enable				
		Leave Message Notification So	und Enable				
							Default

<u>Step 2</u> Configure parameters, and these configurations will take effect immediately.

Parameter		Description		
	Video Format	Select the video resolution from 720P , WVGA , and D1 .		
		Configure the number of frames in 1 second. You can select from		
Main	Format Rate	1 to 25 under PAL, and 1 to 30 under NTSC video standard. The		
Stream		larger the value is, the smoother the video will be.		
Stream		Configure the data amount that transmitted in 1 second. You can		
	Bitrate	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, D1, and		
	Video i ormat	1080P.		
Sub	Format Rate	Configure the number of frames in 1 second. You can select from		
Stream		1 to 25 under PAL, and 1 to 30 under NTSC video standard. The		
Stream		larger the value is, the smoother the video will be.		
	Bitrate	Configure the data amount that transmitted in 1 second. The		
	Ditrate	larger the value is, the better the video quality will be.		
		Adjust the video to adapt to different scenarios. You can select		
Status	Scene Mode	from Automatic, Sunny, Night and Disabled. It is Automatic by		
Status		default.		
	Day/Night Mode	You can select from Disabled , Auto , Sunny or Night .		

Parameter		Description
raiameter	BackLight Mode	 You can select from the following modes: Disabled: No back light. BLC: The camera gets clearer image of the dark areas on the target when shooting against light. WDR: The system dims bright areas and compensates dark areas to ensure the clarity of all the area. HLC: The system constrains bright areas and reduces halo size to dim the overall brightness.
	Light Mode	There are four light modes: NO, NC, Auto, and Scheduled. Select as needed.
	Video Standard	Select from PAL or NTSC according to your display device.
	Brightness	Changes the value to adjust the picture brightness. The larger the value is, the brighter the picture will be, and the smaller the darker. The picture might be hazy if the value is too large.
	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 too large, the dark area would be too dark and bright area easier to get overexposed. The picture might be hazy if the value is too small.
Image	Hue	Makes the color deeper or lighter. The default value is made by the light sensor.
	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 does not 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.
	Mirror	Select On , and then the image is displayed with left and right side reversed.
	Flip	Select On , and then the image is displayed upside down.
Audio Control	Select Enable or I	Disabled to turn on or off each sound.
Volume	Miccrophone Volume	Adjust the value, and the larger the value is, the louder the VTO microphone volume will be.
Control	Beep Volume	Adjust the value, and the larger the value is, the louder the system volume will be.

4.3 Access Control

This section introduces how to configure the lock, including unlock responding interval, open door command, door sensor check time, first unlock command and door contact type.

4.3.1 Local

Step 1 On t	he home page, s	select Local Setting >	> Access Control > Local.
-------------	-----------------	------------------------	---------------------------

Figure 4-4 Local

WEB SERVICE2.0	☆Local Setting	Household Setting	 Network 	Log Management	English -	▲ ♠
Basic	Local					
Video & Audio	Unlock Responding Interv	al 15	Sec.			
Access Control 🔷	Unlock Perio		Sec.			
Local	Door Sensor Check Tim First Unlock Comman		Sec. Enable			
RS485		e 🔵 NC 🌔 NO				
System	Door Contact Enabl Fire Alarr	e ON OFF				
Security						
Onvif User				Save	Refresh	Default

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

Parameter	Description					
Unlock Responding	The time interval to unlock again after the previous unlock, and the unit					
Interval	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, you need to 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 to the management					
Door Sensor Check	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.					
First Unlock Command	You can connect a third-party phone such as SIP phone to your VTO, and					
FIRST ONIOCK COMMAND	use the command to open the door remotely.					
Door Contact Type	Select NC or NO according to the lock you use.					
	After door contact is enabled, if doors are not locked at certain period,					
Door Contact Enable	alarms will be triggered, and alarm messages will be pushed to the					
	indoor monitor (VTH).					
Fire Alarm	Select as needed.					

Table 4-3 Local access control parameter description

Step 3 Click Save.

4.3.2 RS-485

You can set unlock responding interval, unlock period, and second unlock command.

Figure 4-5 RS-485

		5				
WEB SERVICE2.0	☆Local Setting	Household Setting	Network	Log Management	English -	≜ † ⊡ ∙
D . 1	RS485					
Basic	Interface	Type Lock 🗨				
Video & Audio	Interface					
Access Control	Unlock Responding Int		Sec.			
Local	Unlock P Second Unlock Comr	eriod 2 mand 456	Sec.			
	Second					
System						
System				Save	Refresh D	efault

4.4 System

This section introduces how to configure the date format, time format, and the NTP server. <u>Step 1</u> On the home page, select **Local Setting > System**.

Figure 4-6 System					
WEB SERVICE2.0	∯ Local Setting	and the setting Household Setting	Network Setting	.og Management	
Basic	Data Formate Year-Month-Day			NTP Enable	
Video & Audio	Time Formate 24-Hour Standard		NTP Server		
Access Control	System Time 2018-11-01	□ 19 : 52 : 39 Sync.PC	Zone	GMT+08:00 *	
Local RS485	DST Type 🔵 Date 💿 V Begin Time May 😴		Update Cycle		
System	End Time Oct 👻		00 : 00 00 : 00		
Security	Auto Maintenance Tuesday	♥ 02 : 00			
	SSH Enable			Sava Rafresh Default	

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

Parameter	Description		
Date Format	You can select from Year-Month-Day, Month-Day-Year, and Day-Month-Year.		
Time Format	Configure the time format, and you can select from 12-Hour or 24-Hour .		
Time Zone	Select a time zone as needed.		
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.		
DST	Select ON to enable DST.		
DST Type	Select Date to define a specific date for DST or select Week for it.		
Start Time	Configure the bagin time and and time for DST		
End Time	Configure the begin time and end time for DST.		
NTP Enable	Select the check box to enable NTP timing.		

Parameter	Description	
NTP Server	Enter the domain name of the NTP server.	
Port	The port number of the NTP server.	
Undata Cucla	The time interval that the VTO syncs time with the NTP server, and it is 30 min	
Update Cycle	at most.	
Maintananaa	Select the day and time for the auto maintenance, and the VTO will restart	
Maintenance	then.	
6611	Select the Enable check box, and then you can connect debugging devices	
SSH	to the VTO through SSH protocol.	

Step 3 Click Save.

4.5 Security



Figure 4-7 Security

Basic	Security	
Video & Audio	🗹 CGI Enabl	e
Access Control	🗹 Mobile Pu	ush Notifications
Access Control ^	Password	Reset
Local	Audio/Vio	deo Transmission Encryption
	🗹 Onvif Ena	ble
RS485	RTSP Ove	r TLS
Sustan	Outbound	d Service Information Protection
System	🗹 Multicast,	/Broadcast Search
Security	Authenticatio	
· · · ·	 Security N 	lode (Recommended) Compatible Mode
Onvif User		

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

Table 4-5 Security parameter des	cription
----------------------------------	----------

Parameter	Description
CGI Enable	Select the check box to enable, and then you can use CGI command.
Mobile Push	After you have enabled this, nitifications will be pushed to the app installed
Notification	on your phone.
Password Reset	Select the check box to enable, and then the password resetting is
Password neset	available.
Audio/Video	
Transmission	If you have enabled this, transmission of audio and video will be encrypted.
Encryption	
Onvif Enable	After Onvif is enabled, videos from devices manufactured by other
	companies can be displayed on the door station web page.
RTSP Over TLS	RTSP is the abbreviation of real time streaming protocol, it's a network
NISP OVER ILS	control protocol designed for use in entertainment and communications

Parameter	Description	
	systems to control streaming media servers. The protocol is used for	
	establishing and controlling media sessions between end points.	
Outbound Service		
Information	After it is enabled, service password information cannot be sent to others.	
Multicast/Broadcast	If you have disabled this VDD configure tools cannot find this device	
Search	If you have disabled this, VDP configure tools cannot find this device.	
Authentification	There are two modes: Security Mode (Recommended) and compatible	
Mode	mode.	

<u>Step 3</u>	Click Save to save.
---------------	----------------------------

4.6 Onvif User

Onvif user is only for engineers. You can add, delete, and modify ONVIF user information. The Onvif username is admin by default.

母Local Setting	Household Setting	Network	Log Management	English +
Onvif User				
No.	Usemame		Modify	Delete
1	admin	admin	12	×
Add Refresh				



5 Household Setting

This chapter is about configurations to the door stations (VTO) that work as SIP servers (see 6.2 SIP Server). You will know 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 to the SIP server, and then you can make video calls among video door phones that are connected to the same SIP server.

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

<u>Step 2</u> Select Household Setting > VTO No. Management.

Figure 5-1 VTO No. management

WEB SERVICEZ.O	쳢 Local Setting	Household Setting	Network Setting	Lo	g Management	
VTO No. Management	VTO No. Management					
Room No. Management	VTO No.	Build No.	Unit No.	IP Address	Modify	Delete
VTS Management					1.1	
v is management					1	
IPC Setting						
Status						
Publish Information Y						
	Add Clear				H 4 1/	1 ⊨ ⊨ Go to +

Step 3 Click Add.

Figure 5-2 Add VTO

Add		×
Rec No.		
Register Password	•••••	
Build No.		
Unit No.		
IP Address		
Username		
Password		
	Save	Cancel

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

Table 5-1 Add VTO configuration

Parameter	Description	
Rec No.	The VTO number you configured for the target VTO. See the details in	
nec no.	"Table 4-1."	
Register Password	Keep default value.	
Build No.	Available only when other converse work as SID 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 nassword for the web name of the target \UCO	
Password	The user name and password for the web page of the target VTO.	

Step 5 Click Save.

5.1.2 Modifying VTO Information

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

Step 1 On the VTO No. Management page, click

Figure 5-3 Modify VTO

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

<u>Step 2</u> You can modify the **Rec No.**, **Username**, and **Password**.

Step 3 Click Save.

5.1.3 Deleting VTO

 \square

The VTO that is in use cannot be modified or deleted.

On the **VTO No. Management** page, click **I** 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 numbers to the SIP server, and then configure room numbers on VTH devices so that you can 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 > Room No. Management.

Figure 5-4 Room No. Management

Room No. Management					
Room No.	First Name	Last Name	Nick Name	Registration Mode	Modify
9901#0				public	-tä: 🥒 🗙
9901#1				public	tă: 🖍 🗙
9901#2				public	-tä: 🥒 🗙
9901#3				public	रों 🖍 🗙
9901#4				public	के 🖍 🗙
9901#5				public	tă: 🖍 🗙
9901#6				public	죠 🖌 🗙
9901#7				public	쇼· 🖍 🗶
9901#8				public	₩ <mark>/</mark> ×
9901#9				public	∰ 🖌 🗙
Add Refresh (Clear			₩∢1	/1 ▶ ▶ Go to 🛛 ↔

<u>Step 3</u> Add room numbers.

1) Click **Add**.

Figure 5-5 Add room numbers

Add
First Name Username Card No. Modify
Last Name
Nick Name
Room No.
Register Type public 💌
Register Password ••••••• No data
Issue Card
Save

2) Configure room information.

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

Parameter	Description
First Name	
Last Name	Enter the information that helps to differentiate each room.
Nick Name	
Room No.	The room number you planned.
Register Type	Select public , and local is reserved for future use.
Register Password	Keep the default value.

3) Click **Save**.

The room numbers added are displayed. Click down of the modify room information, click to view the device serial number, and click delete a room. Click **Refresh** to view the latest status, and click **Clear** to delete all the room numbers.

5.2.2 Modifying Room Number

Step 1 On the Room No. Management page, click

Figure 5-6 Modify room number

Modify					×
First Name	mm	Username	Card No.	Modify	
Last Name	mm				
Nick Name	mm				
Register Type	public 🔻				
Register Password	•••••				
			No data		
			No data		
Add					
				ssue Card	
				Save	Cancel

<u>Step 2</u> You can modify the names for the room. <u>Step 3</u> Click **Save**.

5.2.3 Issuing Access Card

You can issue card to a room, and can also set the card as the main card, or set the card to the lost state. Main cards are used to issue cards for other rooms.

- <u>Step 1</u> On the **Modify room number** page, click **Issue Card**.
 - The countdown notice is displayed.

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.



Issue Card		X
Card No.		
Room No.	201#0	
Username		
	Sa	ve Cancel

<u>Step 3</u> Enter a username, click **Save**, and then click **Confirm Send Card** at the countdown notice.

Figure 5-9 Issued access card

Username	Card No.	Modify
mm	222	E1 🗟 🖊 🗙

<u>Step 4</u> You can modify card information.

- 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 🖃 to set the card to the lost state, and then the icon turns to 🖪. The card under lost state cannot be used to open the door. Click again to resume.
- Click I to 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 video door phones in the network, make or receive video calls, and make basic configurations. For details, see the VTS user's manual.

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

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

Figure 5-10 VTS management

WEB SERVICE2.0	尊 Local Setting	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			H = 1/1	→ ⊨ Go to+

Step 3 Click Add.

Figure 5-11 Add VTS

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

<u>Step 4</u> Configure the parameters, and for the detailed description.

Table 5-3 Add VTS configuration

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.

Step 5 Click **Save**, and then the added VTS is displayed. Click **Z** to modify IP address, and click **X** to delete.

5.4 Status

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

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

Figure 5-12 Status

EB SERVICE2.0	亞 Local Setting	B ₌ Household	Setting Network	Setting Log Manage	ment
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	
PC Setting		Online		2018-10-09 02:02:15	
		Online		2018-10-09 02:06:20	

6 Network Setting

This chapter introduces how to configure IP address, 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**.

WEB SERVICE2.0	햧 Local Set	ting	≣ <mark>⊞</mark> Househ	old Setting	Network	Log	Vanagement
	TCP/IP						
UPnP	IP Address	BIRGES					
	Subnet Mask						
SIP Server	Default Gateway						
Firewall	MAC Address						
	Preferred DNS	8.8.8.8					
	Alternate DNS	8.8.8.8					
	Port						
	Port	80				TCP Port	37777
	HTTPS Port	443		Enable		UDP Port	37778
	Certificate Managem						
	Create Serv		Download Roo	of CERT			
	Certificate						
	Details		Delete				

Figure 6-1 TCP/IP and port

Step 2Enter the network parameters and port number, and then click Save.The VTO will restart, and you need to modify the IP address of your PC to the same networksegment as the VTO to log in again.

6.1.2 Port

6.1.2.1 Creating Server Certificate

Click **Create Server Certificate**, enter needed information, click **Save**, and then the terminal will restart.

6.1.2.2 Downloading Root Certificate

- <u>Step 1</u> Click **Download Root Certificate**.
- <u>Step 2</u> Select a path to save the certificate on the Save File dialog box.
- <u>Step 3</u> Double-click **Root Certificate** that you have downloaded to install the certificate. Install the certificate by following the onscreen instructions.

6.1.3 HTTPS

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

- You can use the default value, and you can also modify the port number as needed.
- When HTTPS Port is enabled, you can enter https://VTO IP address:HTTPS port number/#/Login to log in to the web page; or you can enter http://VTO IP address:port number, and the address will be automatically changed to https://VTO IP address: HTTPS port number/#/Login.

6.1.4 P2P

P2P network is one in which two or more PCs share files and access to devices such as printers without requiring separate server computer or server software.



6.2 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 calls among each other. <u>Step 1</u> Select **Network Setting > SIP Server**.

Figure 6-3 SIP server

WEB SERVICE2.0	尊Local Setting	Household Setting	Network Setting	Log Management	▲ 俞 -
Basic					
	SIP Server	Enable			
FTP	Server Type	∨то 🔻			
SIP Server	IP Addr.	10-10-10-10-00			
	Port	5080			
IP Permissions	Username				
	Password	•••••			
	SIP Domain	VDP			
	SIP Server Username	system			
	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."

Ш

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.

Parameter	Description
IP Addr.	The IP address of the VTO which works as SIP server.
Port	5060
Username	Keep the default value.
Password	Reep the delault value.
SIP Domain	VDP
SIP Server Username	The user name and nassword for the web name of the SID conver
SIP Server Password	The user name and password for the web page of the SIP server.

Table 6-1 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.

6.3 Firewall

Firewall is only for engineers.

Figure 6-4 Firewall

WEB SERVICE2.0	袋Local Setting	Household Setting	Network
Basic	Firewall		
Dasic			
UPnP	Type Network Access		
	Enable		
SIP Server	Default Refresh	Confirm	

7 Log Management

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

7.1 Call

You can view call logs, including call types, room numbers, start time, talk time, and end state.

Figure 7-1 Call

WEB SERVICEZ.O	¢ι	ocal Setting	Household Setting	Network	Log Management	English -
Call						
		Call Type			Talk Time(Min.)	
Alarm						
Unlock						
Log						
				No data		
	Export Data					

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

7.2 Alarm

You can view and export alarm logs.

Figure 7-2 Alarm									
WEB SERVICE2.0	¢Loc	al Setting 🏭	Household Setting	Network	Log Management English -				
Call				Channel					
Alarm									
Log									
			No	data					
	Export Data	ne koop wormersjeled. Nes well, in orde	r to model data Indexago rick		∺ 4 1/1 ⊨ ⊢ Go to				

7.3 Unlock

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

Figure 7-3 Unlock

WEB SERVICE2.0	ঞ্চ Local S	letting <u>∎</u> Ho	ousehold Setting	() Netwo	ork	Log Management	English -	≜ f
Call	No.	Unlock Type	Room No.	Username	Card No.	Unlock Resul	Unlock Time	
Alarm	NU.	опоск туре	NOOIII NO.	Usemaine	Card No		Uniock fille	
Log								
				No da	ıta			
	Export Data						ie ∈ 1/1 ⊨ ∋i Go to	

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

7.4 Log

You can search, view, and view logs of events in specific periods. Figure 7-4 Log

WEB SERVICE2.0	尊Local Setting	🖩 Household Setting	Network	Log Management	English -
Call	Time Range 26-03-2020 00:00:00 Type All	⊙ 27-03-2020 00:00:00 ▼ Search			
Unlock	No. Record			Event	
Log			No data		
	Log Info Record Time: Type: Contents:				
	Export Data Rene Long unancyginst P				

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.