Villa VTO

User's Manual



Foreword

General

This Manual introduces the operation of the villa station (VTO) 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.
	Provides additional information as the emphasis and supplement to the
I IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	text.

Revision History

Version	Revision Content	Release Date	
V1.0.0	First release	April 2020	

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

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

Power Requirement

- The product shall use electric wires (power wires) required by the region where the device will be used.
- 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, refer to device labels.
- Appliance coupler is a disconnecting device. During normal use, keep an angle that facilitates operation.

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1 Initialization

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 192.168.1.108, 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.
- Step 2 Open the internet browser on the PC, then enter the default IP address of the VTO in the address bar, and then press Enter.

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

Figure 1-1 Device initialization

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

Figure 1-2 Logi	n Interface
L	WEB SERVICE2.0
	Username
	Password
	Forget Password?
	Login

---1-2 Login interf

2 Login Interface

2.1 Login

Before login, make sure that the PC and VTO are in 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

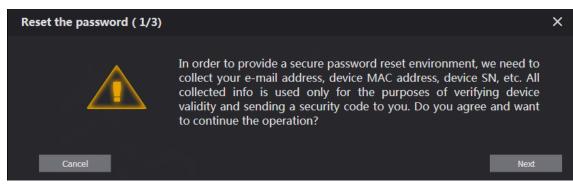
riguic z i Logi	
	WEB SERVICE2.0
	Username
	Password
	Forget Password?
	Login

<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?**.

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



Step 2 Click Next.

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

Reset the password (2	2/3)	×
Scan QR Code :	Note(For admin only) : Scan the QR code on the interface	
Enter security code :	The security code will be delivered to : 1***@qq.com	
cher security code .		
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.



- 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**.

3 Main Interface

Log in to the web interface of the VTO, and then the main interface is displayed.

Figure 3-1 Main interface

			Friglish .	1-4 1 0
VTO	Building No. : 0 Device Type : Villa Station	Unit No. : 0 No. : 8001		
Software Version Info Security Baseline Version		Vence Info Export Config Proof: Config Proof: Config Proof: Config Pro		
	Setting stad setting.	Heuschold Setting Rount No., war right and IPC incrugament.		
Netwo	ork	Log Management Untrole, call, adams and system the onge		

Table 3-1 Main interface introduction

No.	Function	Description		
	1 General function	• Click Let to change the password and your email address.		
1		Click to go to the main interface.		
		• 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	V TO INIOITIALION	No., unit No., device type, and VTO No		
3	System information	You can view the software version, MCU version, and security		
5	System information	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 main interface (Figure 3-1), select **Local Setting > Basic**.

Figure 4-1 Basic

WEB SERVICE2.0	☆ Local Setting	Household Setti	ing 🔇 Network	Log Management	English -	≗ ↑ G
	Device Properties					
Basic	Device Properties					
Video & Audio	Device Type	Villa Station 🔻	Centre Call No.	888888		
	No.		Call Centre Time	00:00:00	9 - 23:59:59	O
Access Control 💙	Group Call					
System						
ojstem						
Security						
Onvif User	Events					
	Storage I					
	SD Total Cap		м			
	SD Used Cap	acity 0	м			
		Format				
		card if it can not be reco				
	Auto Snapshot(un					
	Auto Snapshot(tal					
	Leave Message Up					
	Please backup	regularly to avoid data l	055.			

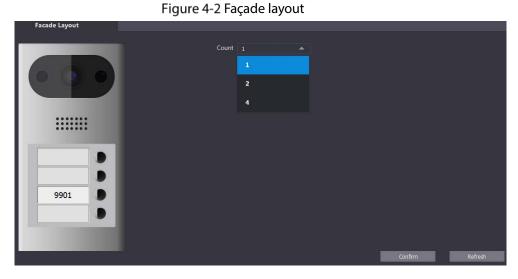
Step 2 Configure parameters.

Parameter	Description
	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
6. D.I.	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
	to the SD card of the main VTH by default.
	• To receive message, the VTO Message Time must be configured to be
	more than 0. See the VTH user's manual.
Step <u>3</u> Click Confi	

4.1.2 Façade 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 main interface (Figure 3-1), select **Local Setting > Video & Audio**.

Figure 4-3 Video & audio

WEB SERVICE2.0	尊Local Setting	Household Setting		Network	Log Ma	nagement	English
Basic	Video & Audio						
Video & Audio	-	Main Stream			Sub Stream		
Access Control		Video Format	720P		Video Format	CIF	-
		Fram <mark>e</mark> Rate			Frame Rate		
Local		Bitrate Rate	2Mbps		Bitrate Rate	256Kbps	•
R\$485	Please click here to download and install the plug-in.	Status			Image		
System		Scene Mode	Auto		Brightness		52
Security		Backlight Mode	Disabled		Contrast		52
security		Light Mode	Auto		Hue		50
Onvif User	-	Video Standard	PAL		Saturation		50
					Gamma	<u> </u>	50
					Mirror	ON OFF	
					Flip	🔿 ON 🧕 OFF	8
							Default
		Audio Control			Volume Control		
		Voice Prompt S	ound Enab	e 🔻	Microphone Volume -		e 90
		Ringback Si	ound Enab	e 🔻	Beep Volume 🗕		80
		U	nlock Enab	e 👻			
		Α	Narm Enab	e 💌			
		Leave Message Notification Se	ound Enab	e 👻			
							Default

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

Table 4-2 Video parameter description	Table 4-2 Video paramet	ter description
---------------------------------------	-------------------------	-----------------

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
	VIGEO FOITIlat	1080P.
Sub		Configure the number of frames in 1 second. You can select from
Stream	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.
	Bitrate	Configure the data amount that transmitted in 1 second. The
	bitate	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
Sidius		default.
	Day/Night Mode	You can select from Disabled , Auto , Sunny or Night .

Parameter		Description		
		You can select from the following modes:		
		 Disabled: No back light. 		
		 BLC: The camera gets clearer image of the dark areas on the 		
	BackLight Mode	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.		
		Changes the value to adjust the picture brightness. The larger		
	Brightness	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.		
		Changes the contrast of the picture. The larger the value is, the		
	Contrast	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.		
	Hue	Makes the color deeper or lighter. The default value is made by		
Image		the light sensor.		
		Makes the color deeper or lighter. The larger the value is, the		
	Saturation	deeper the color will be, and the lower the lighter. Saturation		
		value does not change image brightness.		
		Changes the picture brightness and improves the picture		
	Gamma	dynamic range in a non-linear way. The larger the value is, the		
		brighter the picture will be, and the smaller the darker.		
		Select On , and then the image is displayed with left and right		
	Mirror	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.		
	Miccrophone	Adjust the value, and the larger the value is, the louder the VTO		
Volume	Volume	microphone volume will be.		
Control	Beep Volume	Adjust the value, and the larger the value is, the louder the		
		system volume will be.		
	1			

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

<u>Step 1</u> On the main interface (Figure 3-1), 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 Interva		Sec.			
Access Control 🔷	Unlock Perio		Sec.			
	Door Sensor Check Tim		Sec. Enable			
RS485	First Unlock Comman	d 123				
		• • ON OFF				
System	Fire Alarn	n 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 Officer 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 -	▲ ♠ ତ
Basic	RS485					
Video & Audio	Interface	Type Lock 💌				
Access Control	Unlock Responding Int		Sec.			
Local	Unlock P Second Unlock Comr	eriod 2 mand 456	Sec.			
	Second	Lock Enable				
System						

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**.

		Figure 4-6 System	n	
WEB SERVICE2.0	尊 Local Setting	≣ _# Household Setting	Network Setting	Log Management
Basic				NTP Enable
Video & Audio	Data Formate Year-Month-D Time Formate 24-Hour Stan		NT	P Server 200.160.0.8
Access Control	System Time 2018-11-01	□ 19 : 52 : 39 Sync PC	l	Zone GMT+08:00 -
Local RS485	DST Type 🔿 Date	• Week	Upda	te Cycle 5 Min.
System		 ▼ Last Week ▼ Monday ▼ Last Week ▼ Monday ▼ 	00 : 00	
Security				
	Auto Maintenance Tuesday SSH Enable	♥ 02 : 00		
				Save Refresh Default

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

Table 4-4 System parameter description
--

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.
System mile	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 basis time and and time for DCT
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.
Lindata Cuela	The time interval that the VTO syncs time with the NTP server, and it is 30 min
Update Cycle	at most.
Maintonanco	Select the day and time for the auto maintenance, and the VTO will restart
Maintenance	then.
CCL I	Select the Enable check box, and then you can connect debugging devices
SSH	to the VTO through SSH protocol.

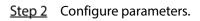
Step 3 Click Save.

4.5 Security

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

Figure 4-7 Security

Basic	Security	
busic		
Video & Audio	🗹 CGI Enabl	e
Access Control	🗹 Mobile Pu	sh Notifications
Access Control ^	Z Password	Reset
Local	Audio/Vid	eo Transmission Encryption
	🗹 Onvif Ena	ble
RS485	RTSP Ove	r TLS
Curtari	Outbound	Service Information Protection
System	🗹 Multicast/	Broadcast Search
Security	Authenticatio	
	Security M	ode (Recommended) Compatible Mode
Onvif User		



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 Reset	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 interface.		
	RTSP is the abbreviation of real time streaming protocol, it's a network		
RTSP Over TLS	control protocol designed for use in entertainment and communications		
	systems to control streaming media servers. The protocol is used for		

Parameter	Description
	establishing and controlling media sessions between end points.
Outbound Service	After it is enabled service persuard information cannot be cent to others
Information	After it is enabled, service password information cannot be sent to others.
Multicast/Broadcast	If you have dischlad this VDD configure to all some at find this daying
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.

Step 3 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.

尊Local Setting	Be Household Setting	Network	Log Management	English +
Onvif User				
No.	Username		Modify	Delete
1	admin	admin	1	×
Add Refresh				

Figure 4-8 Onvif user

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 interface of the SIP server, and then select **Household Setting > VTO No.** Management.

WEB SERVICEZ.O	袋 Local Setting	Household Setting	Network Setting	Log	Management	
	VTO No. Management					
Room No. Management	VTO No.	Build No.	Unit No.	IP Address	Modify	Delete
VTS Management					1	
v is management					1	
IPC Setting						
Status						
Publish Information 💙						
	Add Clear					1 🕨 📄 Go to 🔤 🔹

Figure 5-1 VTO No. management

Step 2 Click Add.

Figure 5-2 Add VTO

Add		×
		172.12
Rec No.		
Register Password	•••••	
Build No.		
Unit No.		
IP Address		
Username		
Password		
	Save	Cancel

<u>Step 3</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		
RECINO.	"Table 4-1."		
Register Password	Keep default value.		
Build No.	Aveilable en luvik en ether en mere werk en SID een er		
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 WEP interface of the target VTO		
Password	The user name and password for the WEB interface of the target VTO.		
Password			

Step 4 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 interface (Figure 5-1), 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** interface (Figure 5-1), 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.

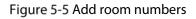
<u>Step 1</u> Log in to the web interface of the SIP server, and then select **Household Setting > Room No. Management**.

Figure 5-4 Room No. Management

Room No. Management					
Room No.	First Name	Last Name	Nick Name	Registration Mode	Modify
9901#0				public	⇔ ×
9901#1				public	🔅 🖍 🗙
9901#2				public	🕸 🖍 🗙
9901#3				public	🕁 🖍 🗙
9901#4				public	🕸 🖍 🗙
9901#5				public	🌣 🖍 🗙
9901#6				public	🕸 🖍 🗙
9901#7				public	🕁 🖍 🗙
9901#8				public	🕁 🖍 🗙
9901#9				public	🕁 🖍 🗙
Add Refresh	Clear			н 4 1	/1 ▶ ⊮ Go to+

<u>Step 2</u> Add room numbers.

1) Click **Add**.



Add	na Be	Jiel Name	Lad Barre	Nick Kanne	Seculated by seculation of the second sec
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
	1100111	mormation

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 is to modify room information, click is to view the device serial number, and click is to 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

<u>Step 1</u> On the **Room No. Management** interface (Figure 5-4), click



Figure 5-6 Modify room number

Modify		Issue Card		\times		>
First Name	mm		Username	Card No.	Modify	
Last Name	mm					
Nick Name	mm					
Register Type						
Register Password	•••••					
				No data		
a a statute A statute						
					Issue Card	
					Save	Cancel

<u>Step 2</u> You can modify the names for the room. Step 3 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** interface (Figure 5-6), click **Issue Card**.
 - The countdown notice is displayed.

Figure 5-7 Countdown notice



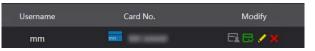
Step 2 Swipe the card that needs to be authorized on the VTO, and then the Issue Card dialogue box is displayed.

Figure 5-8 Issue card

Issue Card		×
Card No.		
Room No.	201#0	
Username		
	Save	Cancel

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

Figure 5-9 Issued access card



<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 do modify the user name.
- Click **I** 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 interface of the SIP server, and then select **Household Setting > VTS** Management.

WEB SERVICEZ.O	尊 Local Setting	an 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		
			110 0000		
	Add			H 4 3	/1 ⊧ ⊨ Go to _ +

Figure 5-10 VTS management

Step 2 Click Add.

Figure 5-11 Add VTS

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

<u>Step 3</u> Configure the parameters, and for the detailed description.

Table 5-3	Add VTS	configuration
Tuble 5 5	nuu vi s	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 4 Click Save, and then the added VTS is displayed. Click *Law* to modify IP address, and click



5.4 Status

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

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

Figure 5-12 Status

谷 Local Setting	B_Household	Setting Network	Setting Log Manage	ement
Status				
Room No.	Status	IP:Port	Reg Time	Off Time
201#0	Online		2018-10-09 02:01:58	
201#1	Online		2018-10-09 02:02:11	
	Online		2018-10-09 02:02:15	
	Online		2018-10-09 02:06:20	
				⊯ ≼ 1/1 ≽ ⊨ Go to
	Status Room No. 201#0 201#1 12	Status Room No. Status 201#0 Online 201#1 Online 12 Online	Status IP-Port Room No. Status 201#0 Online 201#1 Online 12 Online	Status IPPort Reg Time Room No. Status IPPort Reg Time 201#0 Online 2018-10-09 02:02:158 201#1 Online 2018-10-09 02:02:11 12 Online 2018-10 09 02:02:15

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**.

	rigu			L		
WEB SERVICE2.0	父 Local Set	ting	≣ Household Se	tting 💿 Net	work je Lo	g Management
	ТСР/ІР					
UPnP	IP Address	172.12.70	54			
	Subnet Mask	25.254				
SIP Server	Default Gateway	172.12.0.1				
Firewall	MAC Address					
	Preferred DNS	8.8.8.8				
	Alternate DNS	8.8.8.8				
	Port					
	Port	80			TCP Por	rt 37777
	HTTPS Port	443	En	able	UDP Por	rt 37778
	Certificate Managem					
	Create Serv Certificate		Download Root CERT			
	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.

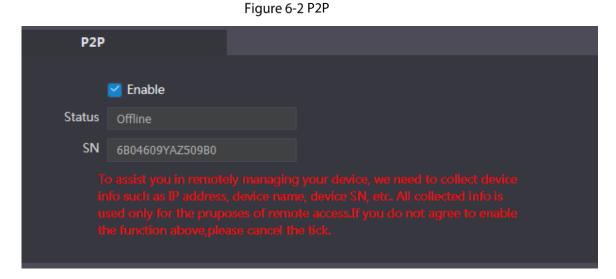
6.1.3 HTTPS

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 interface; 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	☆Local Setting	Household Setting	Network Setting	Log Management	▲ ♠ 단·
Basic					
	SIP Server	Enable			
FTP	Server Type	vто –			
SIP Server	IP Addr.	1010-1010-000			
	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."

 \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.

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

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	¢.	ocal Setting	Household Setting	Network	Log Management	English -
Cell		Call Type			Talk Time(Min.)	
Alarm						
Unlock						
Log						
				No data		
	Export Data	Expert Data Prese keep successful files will, in under in weld state balange bld.				

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

7.2 Alarm

You can view and export alarm logs.

		Fig	ure 7-2 Alarm			
WEB SERVICE2.0	袋Local S	etting 📕	Household Setting	Network	Log Management	English -
Call						
Alarm		Room No.	Event State	Channel		Start Time
Unlock						
Log						
				No data		
	Export Data Please I	corp anomrypted this well, in and	or to nivid ditte linekage dirk.			H + 1/1 ⊨ H 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	狡 Local Se	tting 🏭 Ho	ousehold Setting	 Netwo 	ork	Log Management	English -	_≏ ↑
Call						Unlock Resul		
Alarm		Unlock Type	Room No.	Username	Card No.		Unlock Time	
Unlock								
Log								
	No data							
	Export Data							

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 Ti			Event	
	Log Info		No data		
	Record Time: Type: Contents:				
	Esport Data Please loop concurypted th				

Appendix 1 Cybersecurity Recommendations

Cybersecurity is more than just a buzzword: it's something that pertains to every device that is connected to the internet. IP video surveillance is not immune to cyber risks, but taking basic steps toward protecting and strengthening networks and networked appliances will make them less susceptible to attacks. Below are some tips and recommendations on how to create a more secured security system.

Mandatory actions to be taken for basic device network security:

1. Use Strong Passwords

Please refer to the following suggestions to set passwords:

- The length should not be less than 8 characters;
- Include at least two types of characters; character types include upper and lower case letters, numbers and symbols;
- Do not contain the account name or the account name in reverse order;
- Do not use continuous characters, such as 123, abc, etc.;
- Do not use overlapped characters, such as 111, aaa, etc.;

2. Update Firmware and Client Software in Time

- According to the standard procedure in Tech-industry, we recommend to keep your device (such as NVR, DVR, IP camera, etc.) firmware up-to-date to ensure the system is equipped with the latest security patches and fixes. When the device is connected to the public network, it is recommended to enable the "auto-check for updates" function to obtain timely information of firmware updates released by the manufacturer.
- We suggest that you download and use the latest version of client software.

"Nice to have" recommendations to improve your device network security:

1. Physical Protection

We suggest that you perform physical protection to device, especially storage devices. For example, place the device in a special computer room and cabinet, and implement well-done access control permission and key management to prevent unauthorized personnel from carrying out physical contacts such as damaging hardware, unauthorized connection of removable device (such as USB flash disk, serial port), etc.

2. Change Passwords Regularly

We suggest that you change passwords regularly to reduce the risk of being guessed or cracked.

3. Set and Update Passwords Reset Information Timely

The device supports password reset function. Please set up related information for password reset in time, including the end user's mailbox and password protection questions. If the information changes, please modify it in time. When setting password protection questions, it is suggested not to use those that can be easily guessed.

4. Enable Account Lock

The account lock feature is enabled by default, and we recommend you to keep it on to guarantee the account security. If an attacker attempts to log in with the wrong password several times, the corresponding account and the source IP address will be locked.

5. Change Default HTTP and Other Service Ports

We suggest you to change default HTTP and other service ports into any set of numbers between 1024~65535, reducing the risk of outsiders being able to guess which ports you are using.

6. Enable HTTPS

We suggest you to enable HTTPS, so that you visit Web service through a secure communication channel.

7. MAC Address Binding

We recommend you to bind the IP and MAC address of the gateway to the device, thus reducing the risk of ARP spoofing.

8. Assign Accounts and Privileges Reasonably

According to business and management requirements, reasonably add users and assign a minimum set of permissions to them.

9. Disable Unnecessary Services and Choose Secure Modes

If not needed, it is recommended to turn off some services such as SNMP, SMTP, UPnP, etc., to reduce risks.

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

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

10. Audio and Video Encrypted Transmission

If your audio and video data contents are very important or sensitive, we recommend that you use encrypted transmission function, to reduce the risk of audio and video data being stolen during transmission.

Reminder: encrypted transmission will cause some loss in transmission efficiency.

11. Secure Auditing

- Check online users: we suggest that you check online users regularly to see if the device is logged in without authorization.
- Check device log: By viewing the logs, you can know the IP addresses that were used to log in to your devices and their key operations.

12. Network Log

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

13. Construct a Safe Network Environment

In order to better ensure the safety of device and reduce potential cyber risks, we recommend:

- Disable the port mapping function of the router to avoid direct access to the intranet devices from external network.
- The network should be partitioned and isolated according to the actual network needs. If there are no communication requirements between two sub networks, it is suggested to use VLAN, network GAP and other technologies to partition the network, so as to achieve the network isolation effect.
- Establish the 802.1x access authentication system to reduce the risk of unauthorized access to private networks.
- Enable IP/MAC address filtering function to limit the range of hosts allowed to access the device.