Common Configuration

User's Manual



V1.0.0

Foreword

This manual introduces the common configuration of intercom devices. Read carefully before using the device, and keep the manual safe for future reference.

Safety Instructions

The following signal words might appear in the manual.

Signal Words	Meaning
	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, reductions in performance, or unpredictable results.
	Provides methods to help you solve a problem or save time.
NOTE	Provides additional information as a supplement to the text.

Revision History

Version	Revision Content	Release Time	
V1.0.0	First release.	January 2023	

Privacy Protection Notice

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

About the Manual

- The manual is for reference only. Slight differences might be found between the manual and the product.
- We are not liable for losses incurred due to operating the product in ways that are not in compliance with the manual.
- The manual will be updated according to the latest laws and regulations of related jurisdictions. For detailed information, see the paper user's manual, use our CD-ROM, scan the QR code or visit our official website. The manual is for reference only. Slight differences might be found between the electronic version and the paper version.
- All designs and software are subject to change without prior written notice. Product updates might result in some differences appearing between the actual product and the manual. Please contact customer service for the latest program and supplementary documentation.
- There might be errors in the print or deviations in the description of the functions, operations and technical data. If there is any doubt or dispute, we reserve the right of final explanation.
- Upgrade the reader software or try other mainstream reader software if the manual (in PDF

format) cannot be opened.

- All trademarks, registered trademarks and company names in the manual are properties of their respective owners.
- Please visit our website, contact the supplier or customer service if any problems occur while using the device.
- If there is any uncertainty or controversy, we reserve the right of final explanation.

Important Safeguard and Warnings

This section introduces content covering the proper handling of the device, hazard prevention, and prevention of property damage. Read carefully before using the device, and comply with the guidelines when using it.

Operation Requirements

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- Check whether the power supply is correct before use.
- Do not unplug the power cord on the side of the device while the adapter is powered on.
- Operate the device within the rated range of power input and output.
- Transport, use and store the device under allowed humidity and temperature conditions.
- If the device is powered off for longer than a month, it should be placed in its original package and sealed. Make sure to keep it away from moisture, and store it under allowed humidity and temperature conditions.
- Do not drop or splash liquid onto the device, and make sure that there is no object filled with liquid on the device to prevent liquid from flowing into it.
- Do not disassemble the device without professional instruction.

Installation Requirements

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

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

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1 Common Configuration

Follow the configuration procedure and carry out commissioning to ensure that the device can realize basic network access, call and monitoring functions.

1.1 Basic Configuration Procedure



1.2 Preparation

Before the configuration:

- Make sure that there are no short or open circuit in the VTO and VTH.
- Plan IP addresses and numbers (works as phone numbers) for every VTO and VTH.
- Make sure that the VTH and VTO are on the same network segment.

2 VTO Configuration

2.1 Initialization

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

Prerequisites

Make sure that the computer and the VTO are on the same network segment.

Procedure

- <u>Step 1</u> Turn on the VTO.
- <u>Step 2</u> Enter the IP address of the VTO in the browser.

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

	5			
Device Init				×
	1	2	3	
	One	Two	Three	
	Username	admin		
	Password			
		Low Middle	High	
	Confirm Password			
		Mart		
		Next		

Figure 2-1 Device initialization

- <u>Step 3</u> Enter and confirm the new password, and then click **Next**.
- <u>Step 4</u> Select **Email** and enter the email address to use to reset your password.
- <u>Step 5</u> Click **Next**, and then click **OK** to go to the login page.
- <u>Step 6</u> Enter username and the new password to log in to the webpage.

Figure 2-2 Login page

WEB SERVICE2.0
Username
Password
Forget Password?
Login

2.2 Configuring the VTO Number

Numbers can be used to distinguish each VTO. We recommend you set it according to the unit and building number.

Procedure

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

VTO	Building No. : 0 Device Type : Villa Station	Unit No. : 0 No. : 8001				
Software Version Info MCU Version Security BaseLine Version		Devic	e info 💌	Export Config	Import Config	
	Setting Aared settings			hold Setting Io., user right, etc		
Netw	ork		LOG CaR, syst	i Log tem history, etc		

Figure 2-3 Home page

<u>Step 2</u> Select Local Settings > Basic.

		F	igure 2-4 Device prop	erties				
Device Properties								
Device Type	Villa Station		Centre Call No.	888888				
No.			Call Centre Time	00:00:00	• -	23:59:59	O	
Group Call	🛃 Warning:T							
rebocted after modi								

<u>Step 3</u> Enter the number of the VTO, and then click **Confirm**.

 \square

- You can change the number of a VTO when it is not working as the SIP server.
- A VTO number can contain up to 5 digits, and it cannot be the same as any room number.

2.3 Configuring Network Parameters

Procedure

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

Figure 2-5 TCP/IP information

WEB SERVICE2.0	₿ Local Settings	≣ _e Household Setting	@Network	Search Log	English -	4 A G-
(Mark)	тср/гр					
UPnP	IP Address	Transmission I	Mode 🔘 Model 🔹 Mode 2			
SIP Server	Subnet Mask Default Gateway					
Firewall	MAC Address					
	Preferred DNS 8.8.8.8 Alternato DNS 8.8.6.8					
	Port					
			TCP Port 37777			
	HTTPS Port 443	Enable 9 Januari altar madiliging the Part of PTTTP:	UDP Port 37778			
	Compatible with TLSv1.	1 and earlier versions.				
	Create Server Certificate	Download Root CERT				

<u>Step 2</u> Enter the parameters, and then click **Save**.

<u>Step 3</u> The VTO will automatically restart. You need to add the IP address of your computer to the same network segment as the VTO to log in again.

2.4 Configuring the SIP Server

When connected to the same SIP server, all the VTOs and VTHs can call each other. You can use a VTO or another server as the SIP server.

2.4.1 VTO as the SIP Server

Procedure

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

SIP Server	Enable
Server Type	ντο 🔻
IP Addr.	
Port	5060
Username	8001
Password	
SIP Domain	VDP
SIP Server Username	admin
SIP Server Password	
Warning:The devic SIP server enable :	

Figure 2-6 VTO as the SIP server

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

- If the current VTO works as the SIP server, enable **SIP Server**, and then click **Save**. The VTO will automatically restart, and then you can add other VTOs and VTHs to this VTO.
- If another VTO is working as the SIP server, set **Server Type** as **VTO**, configure the parameters, and then click **Save**.

Parameter	Description			
IP Addr.	The IP address of the VTO that works as the SIP server.			
Port	5060 by default when the VTO works as an SIP server.			
Username	Default.			
Password	Default.			
SIP Domain	Default.			
SIP Server Username	The username and passured of the SID server			
SIP Server Password	 The username and password of the SIP server. 			

Table 2-1 SIP server configuration

2.4.2 Platform (DSS Express/DSS Pro) as the SIP Server

Procedure

- <u>Step 1</u> Select **Network** > **SIP Server**.
- <u>Step 2</u> Enable SIP Server, and then set Server Type as DSS Express/DSS Pro.

Figure 2-7 Platform as the SIP server

SIP Server	Enable					
Server Type	DSS Express/DSS Pro 🛛 🔿					
IP Addr.		Alternate IP Addr.				
Port	5080	Alternate Username	admin			8 8
Username		Alternate Password				
Password		Alternate VTS IP Addr.				
SIP Domain	VDP	Alternate Server	Enable			
SIP Server Username	admin					
SIP Server Password						
Warning The devic						
SIP server enable s						
				Save	Refresh	Default

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

When the platform is working as the SIP server and you want to configure the building number and building unit number, enable **Support Building** and **Support Unit** first.

Parameter	Description			
IP Addr.	The IP address of the SIP server.			
Port	5080 by default when the platform works as the SIP server.			
Username	Default.			
Password	Default.			
SIP Domain	Keep default value VDP or leave it empty.			
SIP Server Username/Password	The username and password of the SIP server.			
Alternate IP Addr.	 The alternate server will be used as the SIP server when DSS Express/DSS pro stops responding We recommend you configure the alternate IP address. If you enable Alternate Server, the current VTO you have logged in serves as the alternate server. If you want another VTO serve as the alternate server, you need to enter the IP address of that VTO in the Alternate IP Addr. textbox. Do not enable Alternate Server in this case. 			
Alternate Username/Password	Used to log in to the alternate server.			
Alternate VTS IP Addr.	IP address of the alternate VTS.			

<u>Step 4</u> Click **Save**.

2.5 Configuring Call Number and Group Call

To dial and call a VTO, you need to configure the call number on each VTO that works as the phone number.

Procedure

<u>Step 1</u> Select Local Settings > Basic.

Figure 2-8 Device properties					
Device Properties					
Device Type	Villa Station 🛛 🔻	Centre Call No.	888888		
No.		Call Centre Time	00:00:00	· 23:59:59	
Group Call	🗹 Warning:The de				
rebooted after modi					

<u>Step 2</u> Enter the room number you need to call, and then click **Confirm** to save. Repeat this operation on every villa door station (VTO) webpage.

On the SIP server, you can enable the group call function. When calling a main VTH, all extension VTHs will also receive the call.

\sim	\sim	~	
11	1	- 11	
		- 11	

The VTO will restart after Group Call is enabled or disabled.

- <u>Step 3</u> Log in to the SIP server web page, and then select **Local Settings** > **Basic**.
- <u>Step 4</u> Enable **Group Call**, click **Confirm**, and then the VTO will restart.

2.6 Adding VTOs

You can add VTOs to the SIP server, which will allow all the VTOs connected to the same SIP server to make video calls with one another. This section is for when a VTO is set as the SIP server.

Procedure

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

WEB SERVICE2.0
Qlocal Settings
Household Setting
Network
Search Log
Engleh Image: merit

VID Hot. Management:

VID Settings

Solo

Sature

Management:

No.

Bidd Ho.

URI Household Setting

VID Hot. Management:

No.

Bidd Ho.

No.

No.

No.

Bidd Ho.

Diet No.

No.

No.

Bidd Ho.

Diet No.

No.

No.

Bidd Ho.

Diet No.

PAddress

Modify

Diet No.

No.

Bidd Ho.

Diet No.

PAddress

No.

Bidd Ho.

Diet No.

PAddress

No.

Bidd Ho.

Diet No.

PAddress

<

Figure 2-9 VTO number management

Step 2 Click Add.

Add	646.646 	×
		172.12
Rec No.		17211
Register Password	•••••	
Build No.		
Unit No.		
IP Address		
Username		
Password		
	Save	Cancel

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

 \square

The SIP server must be added.

Table 2-3 Add door stations (VTO)

Parameter	Description
Rec No.	VTO number.
Register Password	Default.
Build No.	Only available when the converte set as the SID conver
Unit No.	 Only available when the server is set as the SIP server.
IP Address	VTO IP address.
Username	The username and password of the webpage of the VTO
Password	 The username and password of the webpage of the VTO.

Step 4 Click Save.

2.7 Adding Room Numbers

You can add room numbers to the SIP server, and then configure the room numbers on the VTHs to connect them to the network. This section is for when a VTO is set as the SIP server.

Procedure

<u>Step 1</u> Log in to the webpage of the SIP server, and then select **Household Setting** > **VTH Management** to add the room number.

VTH Management					
Room No.	First Name	Last Name	Nick Name	Register Type	Modify
101#0				public	ZX [
101#1				public	18
101#2				public	18
102#0				public	××
102#1				public	× x
102#2				public	Z 8
103#0				public	2×
103#1				public	18
103#2				public	128
104#0				public	× ×
104#1				public	
Add Refresh					H 4 1/2 ⊨ H Goto +



Figure 2-12 Add a single room number				
Add		×		
First Name				
Last Name				
Nick Name				
Room No.				
Register Type	public 💌			
Register Password	······			
6		Save Cancel		

<u>Step 3</u> Configure room information.

Table 2-4 Room information

Parameter	Description
First Name	
Last Name	Information used to differentiate each room.
Nick Name	

Parameter	Description
Room No.	 Room number. The room number consists of up to 6 characters, and can contain numbers and letters. It cannot be the same as the VTO number. When there are multiple VTHs, the room number for the main VTH should end with #0, and the room numbers for the extension VTHs with #1, #2 You can configure up to 9 extension VTHs for each main VTH.
Registration Mode	Select public .
Registered Password	Default.

Step 4 Click Save.

Related Operations

- Click 🗾 to modify room information.
- Click 📕 to delete the room.

3 VTH Configuration

This chapter introduces how to configure the VTH and use the intercom function.

3.1 Quick Configuration

For first-time login, you can quickly initialize and configure the VTH through quick configuration.

Background Information

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Quick configuration enables you to configure the parameters of the VTO, VTH and the SIP server at the same time. For more details about modifying the parameters, see "3.2 Manual Configuration".

Procedure

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

<u>Step 2</u> Select a region and language, and then tap **OK**.



Figure 3-1 Region and language

<u>Step 3</u> Set the quick configuration type as **Villa**, and then tap **OK**.

Figure 3-2 Quick configuration

	rant to do quick	configuration?		
Apartment		M Villa		
	ОК			

<u>Step 4</u> Select **First-time Config**, and then tap **OK**.

Figure 3-3 Configuration mode

Config Mode				
	1	First-time Config		
	÷	Replace the Existing Main VTH		
		Back OK		

<u>Step 5</u> Select **Static IP**, enter your planned VTH IP, net mask and gateway, and then tap **Next**.

STEP 1/5	Configure IP
	DHCP Static IP
	Local IP
	Netmask 294 . 194 . 4
	Gateway
	Back Next

Figure 3-4 Configure the network parameters

<u>Step 6</u> On the **Set VTH Password** screen, enter and confirm the password, and enter the email address, and then tap **Next**.

 \square

- The password is used to enter project setting.
- If you select **Apartment** in Step 2, initialization is completed with this step.

Figure 3-5 Set the password for the VTH

STEP2/5	Set V	TH Password	
	Password		**
		6 digits password	
	Confirm Pwd		* **
		6 digits password	
	Email		
	This ema	ail is used to reset the	e password
	Ba	ck N	Next
ten 7 On the Set			of the VTO confirm it and then

<u>Step 7</u> On the **Set VTO Password** screen, enter the password of the VTO, confirm it, and then tap **Next**.

 \square

The password is used to enter project setting.

STEP 3/5	Set VTO	Password	
	Password		<u>አ</u> ተኛ
	8-32 ch	aracters password	
	Confirm PWD		፞፞፞፞፞፞፞፞
	8-32 ch	aracters password	
	Email m@9		0
			uord
	i his email is use	d to reset the pass	wora.
	Back	Ne	ext

Figure 3-6 Set the password for the VTO

<u>Step 8</u> Tap **Initialize** to complete the initialization of the VTO and the main VTH, and then tap **Next**.

You need to make sure that the IP addresses of the VTH and VTO are on the same network segment. Otherwise, the VTH will not be able to obtain information from the VTO after configuration.

Figure 3-7 Initialize the devices

STEP 4/5		Search Device			
Device Ty	pe SN	MAC	IP	Status	Operation
Local		Hold States	100.0100.000	Uninitialized	Initialize
∨тн	ARRENT	interesting.	102,102,1101	Initialized	
∨тн	040490	STREED.	1222-0-001	Initialized	
∨тн		Side Real	1023-0240	Initialized	
∨то		8194978	-	Initialized	
		2 3 4			>
	Back	Refresh Ba	tch Initialization	Nex	t

<u>Step 9</u> Tap **One-key Config** to finish the configuration of the VTO and VTH, as well as the SIP server.

The status bar will inform you whether your configuration was successful.



Figure 3-8 Finish the configuration

3.2 Manual Configuration

You can manually configure the parameters you want to modify.

3.2.1 Configuring Network Parameters

You can choose to connect the VTH to the network either through WLAN or LAN.

3.2.1.1 LAN

Procedure

- <u>Step 1</u> Select **Setting** > **Project Setting**, and enter the password that you set for the VTH.
- Step 2 Tap **Network** > **LAN**.
- <u>Step 3</u> Enter the local IP subnet mask and gateway that you planned for the VTH.
- Step 4 You can also tap form to enable the DHCP function to obtain IP information automatically.

	Figure 3-9 LAN	
9901#4	Network	
Network	WLAN LAN	
VTH Config	Local IP	
SIP Server	Subnet Mask	
VTO Config	Gateway	
Search Device	MAC INTERCEPTION	
Default All		
Reset MSG	ОК	

Step 5 Tap OK.

3.2.1.2 WLAN

Procedure

- <u>Step 1</u> Select **Setting** > **Project Setting**, and enter the password that you set for the VTH.
- Step 2 Tap **Network** > **WLAN**.
- Step 3 Enable FF to see all the usable networks.
- <u>Step 4</u> Before connecting to a Wi-Fi network, do either of the following first.
 - Tap **WireLessIP**, enter the local IP, subnet mask and gateway that you planned for the VTH, and then tap **OK**.
 - Tap **WireLessIP**, and tap **off** to enable the DHCP function to obtain IP information automatically.

-	~	_
n	т	n
н.		- 11
L		
	\sim	

To enable the DHCP function, use a router with a DHCP function.

<u>Step 5</u> On the **WLAN** screen, tap the Wi-Fi name, and then enter the password to connect to the network.

	Figure 3-10) WLAN			
9901#4	Ne	etwork			
Network	WLAN	LAN	WireLess IP		
VTH Config	WIFI Name			ON	
SIP Server	CS / Bill Juginia)	
VTO Config	CB./TENT. and solar		<u>(</u>))
Search Device	15,0105,700,000			Ś	
	16,000,0000		()	
Default All	14,3444,3844		4	.	
Reset MSG			1/4	<	>

3.2.2 Configuring the SIP Server

Procedure

- <u>Step 1</u> Select **Setting** > **Project Setting**, and enter the password that you set for the VTH.
- Step 2 Tap SIP Server.

Figure	3-11	SIP	server
rigure	2-11	211	201001

• 9901#0		SIP Server		
Network	Server IP	10 B . 17 . 28		
√TH Config	Network Port	-		
SIP Server	Username	9901#0	Custom Name	OFF
	Register Pwd			سر
√TO Config	Domain	VDP		
Search Device	Username	admin		
Default All	Login Pwd	••••••		**
Reset MSG	Enable Status			
		ОК		

<u>Step 5</u> Tap **OK**.

Parameter	Description
Server IP	 When the platform is set as the SIP server, the server IP is the IP address of the platform. When the VTO is set as the SIP server, the server IP is the IP address of the VTO.
Network Port	 When the platform is set as the SIP server, the network port is 5080. When the VTO is set as the SIP server, the network port is 5060.
Username	Do not change it from the default.
Register Pwd	Do not change it nom the default.
Domain	Registration domain of the SIP server. It can be null. When the VTO is set as the SIP server, the registration domain of the SIP server is VDP.
Username	Username and password to log in to the SIP server.
Login Pwd	

Table 3-1 SIP server

3.2.3 Configuring the VTH

Procedure

- <u>Step 1</u> Select **Setting** > **Project Setting**, and enter the password that you set for the VTH.
- Step 2 Tap VTH Config.

Figure 3	3-12 VTH Co	onfiguration

9901#0	VTH Config			80 🔒
Network	Room No.	9901#0 Main		
VTH Config	Main VTH IP	0 . 0 . 0 . 0		
SIP Server	Main VTH Username	admin		
VTO Config	Main VTH PWD	eeeee >**		
Search Device	Version			
	SSH	ON	Security Mode	OFF
Factory Reset	Password Protection			OFF
Reset MSG		0	<	

- Step 3 Enter the room number (such as 9901 or 101#0).
- <u>Step 4</u> Configure parameters of the VTH. If there is an extension VTH, the room number must end with #0. Otherwise, it will fail to connect to the VTO.
 - As a main VTH.

Enter the room number (such as 9901 or 101#0) and other information, and then tap

OK.

Room number must be the same with **VTH Short No.**, which is configured when adding the VTHs on the webpage of the VTO. Otherwise, it will fail to connect to the VTO.

When there are extension VTHs, room numbers must end with #0. Otherwise, it will fail to connect to the VTO.

- As an extension VTH.
 - 1. Switch **Main** to **Extension**.
 - 2. Enter the room number (such as 101#1), the IP address of the main VTH and other information, and then tap **OK**.

Main VTH Username and **Main VTH PWD** are the username and password of the main VTH. Default user name is admin, and the password is the one you set during initialization.

- <u>Step 5</u> Turn on the following functions as needed.
 - **SSH**: The debugging terminal will connect to the VTH remotely through SSH protocol.
 - Security Mode: Log in to the VTO in a secured way.
 - Password Protection: Encrypt the password before sending out.

 \square

It is recommended to turn off SSH, and turn on security mode and password protection. Otherwise, the device might be exposed to security risks and data leakage.

<u>Step 6</u> Tap **OK**.

3.2.4 Configuring the VTO

Add VTOs and fence stations to bind them with the VTH.

Procedure

<u>Step 1</u> Select **Setting** > **Project Setting**, and then enter the password that you set for the VTH.

Step 2 Tap VTO Config.

9901		VTO Config	
Network	Main_VTO Name	Main VTO	
VTH Config	VTO IP Address	10 1 1 10	
	User Name	admin	
SIP Server	Password	•••••	
VTO Config	Enable Status		
3	Sub_VTO1 Name		
Search Device	VTO IP Address	0.0.0.0	
Default All	User Name	admin	
	Password	••••	
Reset MSG	Enable Status	OFF	< >

<u>steps</u> //dd///o.

3.2.4.1 Adding the Main VTO

Procedure

- <u>Step 1</u> Enter the main VTO name, VTO IP address, username and password.
- Step 2 Turn on Enable Status.
 - \square

User Name and **Password** must be consistent with the username and password that are used to log in to the webpage of the VTO.

<u>Step 3</u> Check whether the configuration is successful by checking the status bar at the top right corner.

3.2.4.2 Adding the Sub VTO

Procedure

- <u>Step 1</u> Enter the sub VTO name, sub VTO IP address, username, and password.
- Step 2 Turn on Enable Status.

\square

Tap

<u>Step 3</u> Check whether the configuration was successful by checking the status bar at the top right corner.

4 Commissioning

4.1 Using the VTO to Call the VTH

Procedure

<u>Step 1</u> Dial a room number on the VTO.

Step 2 1

on the VTH to answer the call.

<u>2</u> Tap

Figure 4-1 Call screen



4.2 Using the VTH to Monitor the VTO

Procedure

<u>Step 1</u> On the home screen of the VTH, select **Monitor** > **Door**.



<u>Step 2</u> Select a VTO to view the VTO video.

Figure 4-3 Monitoring video



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, 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.