Villa Door Station

Quick Start Guide



Foreword

General

This manual introduces the installation, functions and operations of the Villa Door Station (hereinafter referred to as "the VTO"). 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	
ANGER	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.	
A cautionIndicates a potential risk which, if not avoided, comproperty damage, data loss, reductions in per- unpredictable results.		
© <u>-™</u> TIPS	Provides methods to help you solve a problem or save time.	
	Provides additional information as a supplement to the text.	

Revision History

Version	Revision Content	Release Time
V1.0.1	Added bracket installation.	June 2022
V1.0.0	First Release.	December 2021

Privacy Protection Notice

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

About the Manual

- The manual is for reference only. Slight differences might be found between the manual and the product.
- We are not liable for losses incurred due to operating the product in ways that are not in compliance with the manual.

- The manual will be updated according to the latest laws and regulations of related jurisdictions. For detailed information, see the paper user's manual, use our CD-ROM, scan the QR code or visit our official website. The manual is for reference only. Slight differences might be found between the electronic version and the paper version.
- All designs and software are subject to change without prior written notice. Product updates might result in some differences appearing between the actual product and the manual. Please contact customer service for the latest program and supplementary documentation.
- There might be errors in the print or deviations in the description of the functions, operations and technical data. If there is any doubt or dispute, we reserve the right of final explanation.
- Upgrade the reader software or try other mainstream reader software if the manual (in PDF format) cannot be opened.
- All trademarks, registered trademarks and company names in the manual are properties of their respective owners.
- Please visit our website, contact the supplier or customer service if any problems occur while using the device.
- If there is any uncertainty or controversy, we reserve the right of final explanation.

Important Safeguards and Warnings

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

Operation Requirements



- 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.

Table of Contents

Foreword	I
Important Safeguards and Warnings	. . III
1 Structure	1
1.1 Villa Door Station (multiple buttons)	1
1.1.1 Front Panel	1
1.1.2 Rear Panel	
1.2 Villa Door Station (single button)	3
1.2.1 Front Panel	3
1.2.2 Rear Panel	4
1.3 Button Model	6
1.3.1 Front Panel	6
1.3.2 Rear Panel	7
2 Installation	9
2.1 Preparations	9
2.2 Installation Guide	9
2.2.1 Villa Door Station (multiple buttons)	9
2.2.2 Villa Door Station (single button)	10
2.2.3 Button Model	13
3 Configuration	. 15
3.1 Initializing VTO	15
3.1.1 Web	15
3.1.2 DMSS APP	17
3.2 Configuring Network Parameters	21
3.3 Configuring SIP Servers	22
3.4 Configuring VTO Numbers	23
3.5 Configuring Call Numbers and Group Call	23
3.6 Adding VTOs	24
3.7 Adding VTH Room Number	26
3.8 Binding VTH Room Numbers (For Certain Models Only)	27
3.9 Issuing Cards	29
4 Commissioning	. 32
4.1 VTO Calling VTH	32
4.2 VTH Monitoring VTO	32
Appendix 1 Cybersecurity Recommendations	. 34

1 Structure

1.1 Villa Door Station (multiple buttons)

1.1.1 Front Panel

Figure 1-1 Front panel

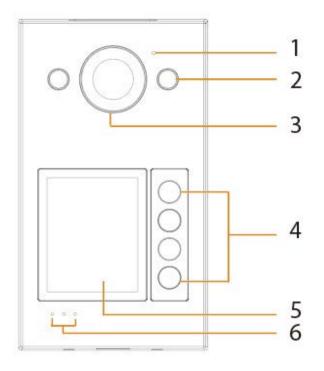


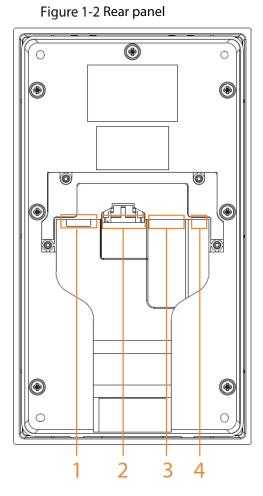
Table F Components	Table	1-1	Components	
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No.	Name	Function
1	MIC	Audio input.
2	Illuminator	Provide a constant light to focus more easily on a subject in dark surroundings.
3	Camera	Capture images or record videos for the VTO.
4	Call buttons	Call the VTH.
5	Card swiping area	Swipe the registered cards to unlock doors.
6	Indicators	 From left to right: Ring: VTO is calling the VTH. Talking: VTO is on the talk with the VTH. Unlocking: VTO unlocking successful.

1.1.2 Rear Panel

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The function ports might differ depending on the model.



No.	Name	Function
1	SD card slot	Used to insert SD card so that data information such as images and videos can be stored.
2	Functional ports	Alarm port, door detector port, 485 port, power port and etc.
3	Network port	RJ-485 network port to connect to the network.
4	Reset button	Press and hold the button for several seconds to do factory reset.

1.2 Villa Door Station (single button)

1.2.1 Front Panel

There are different models with different front panel. Differences in size and appearance are found depending on your model.

Figure 1-3 Front panel

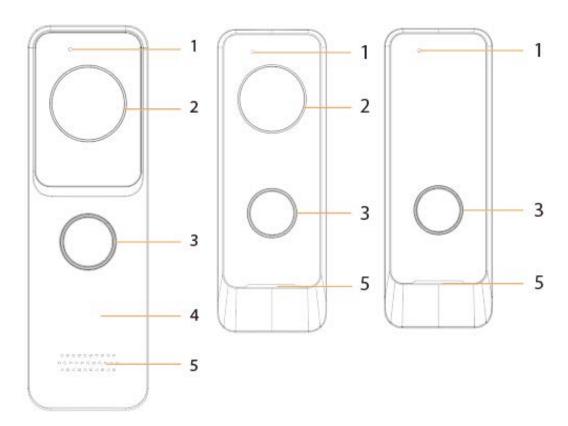


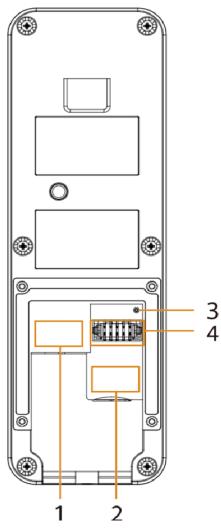
Table 1-3 Components

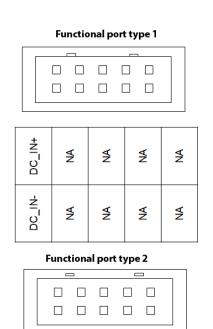
No.	Name	Function
1	МІС	Audio input.
2	Camera	Capture images or record videos for the VTO.
3	Call button	Call the VTH.
4	Card swiping area	Swipe the registered cards to unlock doors.
5	Speaker	Audio output.

1.2.2 Rear Panel

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The function ports might differ depending on the model. Here are two models used as examples. Figure 1-4 Rear panel (1)



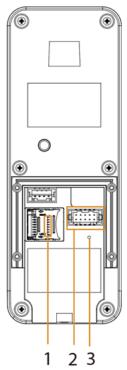


DC_IN+	GND	DOOR_EXIT	DOOR_SR	GND
DC_IN-	DOOR_NC	DOOR_NO	DOOR_COM	NA

Table 1-4 Components

No.	Name	Function
1	Network port	Used to connect to the network.
2	SD card slot	Used to insert SD card so that data information such as images and videos can be stored.
3	Reset button	Press and hold the button for several seconds to do factory reset.
4	Functional port	 Type 1: The functional port only has a power input port to connect to power supply. Type2: The functional port includes a power input port and a door detector port.

Figure 1-5 Rear panel (2)



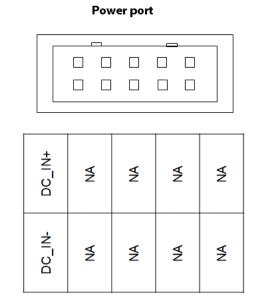


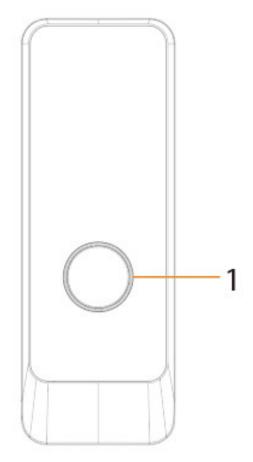
Table 1-5 Components

No.	Name	Function
1	SD card slot	Used to insert SD card so that data information such as images and videos can be stored.
2	Power port	Used to connect to the power supply.
3	Reset button	Press and hold the button for several seconds to do factory reset.

1.3 Button Model

1.3.1 Front Panel

Figure 1-6 Front panel



No.	Na	ame	Function
1	Pre	ess button	The button model can be connected to the VTH. Press the button on the model and the VTH receives an alarm signal.

1.3.2 Rear Panel

Figure 1-7 Rear panel

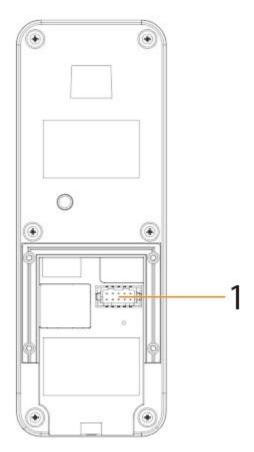
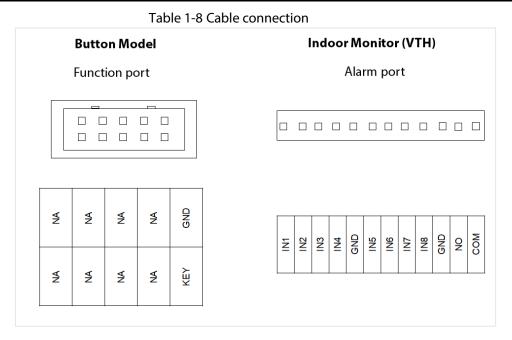


Table 1-7 Components

No.	Name	Function
1	Function port	Used for alarm input.



Connect the KEY port of the button model to any one of the alarm input ports of the indoor monitor (VTH) with a cable thread. After that, tap **Setting** > **Alarm** > **Wired Zone** on the VTH and set the **Type** of the alarm input port you chose to connect to the KEY port as **Doorbell.**

2 Installation

2.1 Preparations

This chapter introduces precautions in installation. For detailed steps, see the corresponding installation guide.

- Do not expose the VTO to condensation, high temperature, direct sunlight, stain, dust, and chemically corrosive substances.
- Installation should be done by professional teams. Do not dismantle or repair the VTO by yourself in case of device failure. Contact after-sales service if you need any help.
- Prepare cross screwdrivers and gloves yourself.
- The recommended installation height of the VTO should be no more than 2 m from the ground.

2.2 Installation Guide

2.2.1 Villa Door Station (multiple buttons)

- <u>Step 1</u> Open the port cover of the VTO, drill screw holes on the wall according to the dimension of the mounting hole on the rear panel of the VTO, and put the expansion bolts into the holes.
- <u>Step 2</u> Complete the cable wiring.
- <u>Step 3</u> Fix the port cover to the rear panel of the VTO with four screws.
- <u>Step 4</u> Fix the bare VTO on the wall with four screws.
- <u>Step 5</u> Install the mount box on the VTO from top to the bottom, and then fix it with two screws.
- <u>Step 6</u> Fix the rain over on the top of the VTO with two screws.



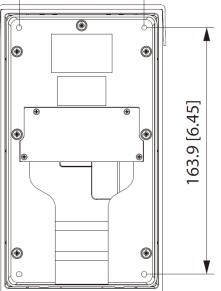
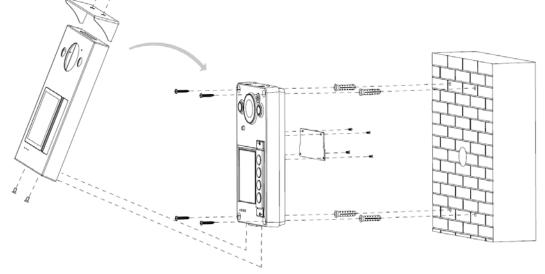


Figure 2-2 Installation



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If you do not want to install the rain cover, you could use the sticker included in the package to cover the screw hole.

2.2.2 Villa Door Station (single button)

Here are examples of two model's installation, depending on differences in model dimensions.

Model Example 1

- <u>Step 1</u> Open the port cover of the VTO, drill screw holes on the wall according to the dimension of the mounting hole on the rear panel of the VTO.
- <u>Step 2</u> Complete the cable wiring.
- <u>Step 3</u> Fix the port cover or the bracket to the rear panel of the VTO with four screws.

You can use either the port cover or the bracket to mount the VTO, based on your own needs.

<u>Step 4</u> Fix the VTO on the wall with screws.

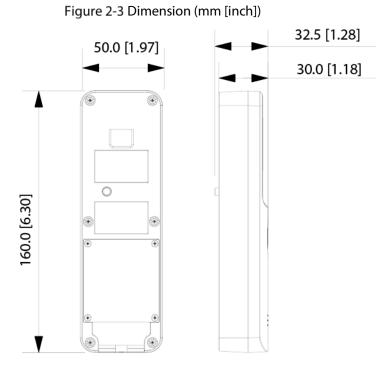
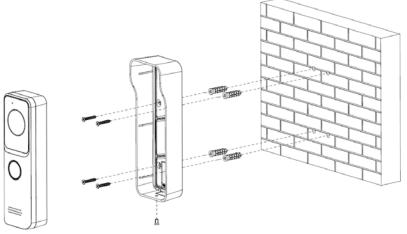
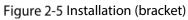
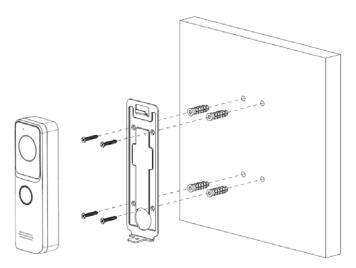


Figure 2-4 Installation (cover port)







Model Example 2

- <u>Step 1</u> Open the port cover of the VTO, drill screw holes on the wall according to the dimension of the mounting hole on the rear panel of the VTO.
- <u>Step 2</u> Complete the cable wiring.
- <u>Step 3</u> Fix the port cover or the bracket to the rear panel of the VTO with four screws.

You can use either the port cover or the bracket to mount the VTO, based on your own needs. <u>Step 4</u> Fix the VTO on the wall with screws.

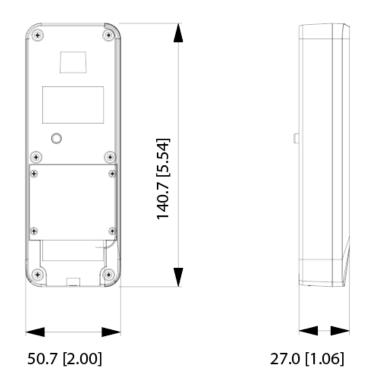
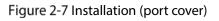


Figure 2-6 Dimension (mm [inch])



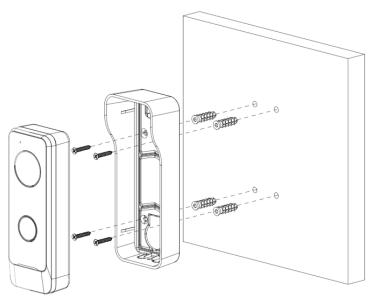
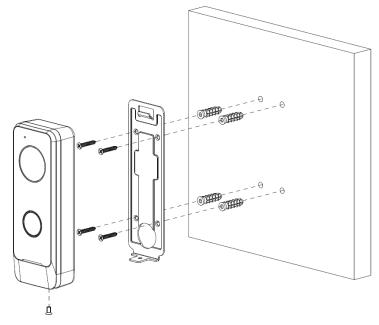


Figure 2-8 Installation (bracket)



2.2.3 Button Model

- <u>Step 1</u> Open the port cover of the button model, drill screw holes on the wall according to the dimension of the mounting hole on the rear panel of the button model.
- <u>Step 2</u> Complete the cable wiring.
- <u>Step 3</u> Fix the port cover or bracket to the rear panel of the button model with four screws.
- You can use either the port cover or the bracket to mount the VTO, based on your own needs. Step 4 Fix the button model on the wall with screws.

Figure 2-9 Dimension (mm [inch])

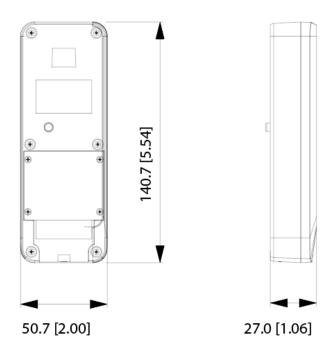


Figure 2-10 Installation (port cover)

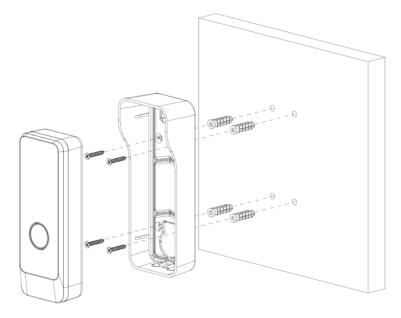
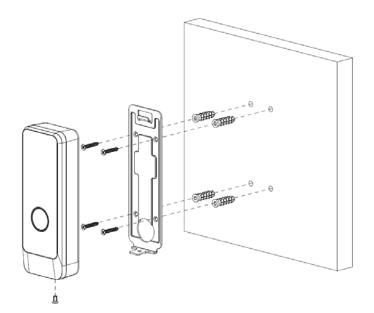


Figure 2-11 Installation (bracket)



3 Configuration

This chapter provides a step-by-step configuration of the VTO, as well as how to register digital indoor monitors (hereinafter referred to as the "VTH") to the VTO to realize its intercom function. Follow the instructions below to get started.

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- The snapshots are for reference only and slight differences might be found in the actual web page of the VTO, depending on your model.
- You can download the Config Tool and use it to configure and update multiple devices. For details, see the corresponding user's manual.

3.1 Initializing VTO

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

3.1.1 Web

For the first time login, you could initialize the VTO on the web if the VTO you use supports wired network function.

- Step 1 Power on the VTO.
- <u>Step 2</u> Go to the default IP address (192.168.1.108) of the VTO in the browser address bar, and then press the Enter key to go to the web page of the VTO.

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- The username is admin by default.
- Make sure that the IP address of the computer is on the same network segment as the VTO.
- <u>Step 3</u> On the **Device Init** page, enter and confirm the password, and then click **Next**.

The password must consist of 8–32 non-blank characters and contain at least two types of the following characters: Uppercase, lowercase, numbers, and special characters (excluding ' " ; : &).

	Figure 3-1 E	Device initializatio	on	
Device Init				×
		2	3	
	One	Тwo	Three	
	Username	admin		
	D			
	Password			
		Low Middle	High	
	Confirm Password			
		Next		

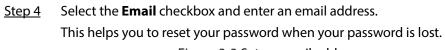
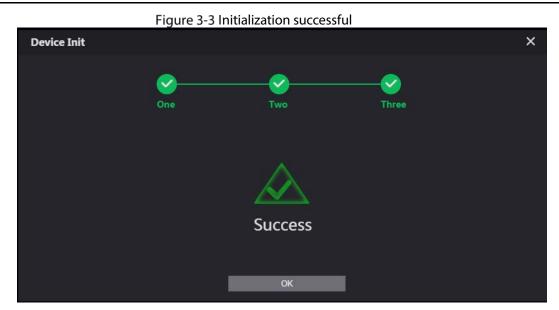


Figure 3-2 Set an email address

Device Init				×
	One One	- 2 Two	3 Three	
	Emai	100, 100, 1, 111		
		Next		

Step 5 Click Next.



Step 6 Click OK.

Enter the username (admin by default) and the new password to log in to the web page. Figure 3-4 Login page

Tigares 1=0	5···
	WEB SERVICE2.0
	Username
	admin
	Password
	Forget Password?
	Login

3.1.2 DMSS APP

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

Prerequisites

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

Operations

- <u>Step 1</u> Power on the VTO.
- <u>Step 2</u> Enable hotspot on the VTO through pressing and holding the call button on the VTO until you heard the voice prompt.

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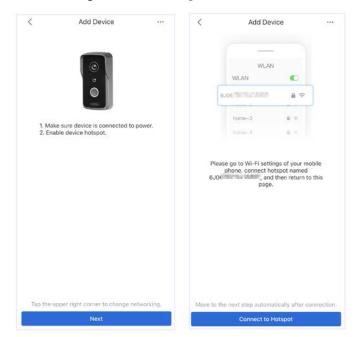
The hotspot function is to enable you connect the VTO to the network through **AP** configuration on the app.

- <u>Step 3</u> Add the VTO to the DMSS app.
 - 1) On the **Home** screen, tap \oplus , and then select **SN/Scan**.
 - 2) Add a VTO.
 - You can add through scanning the QR code at the rear panel of the VTO.
 - 3) The SN number of the VTO appears automatically, and then tap **Next**.
 - 4) Select device type as **VTO**, and then the device information appears.
 - 5) Tap View Reasons.

88	Home	⊙ <	Add Device		<	Add Device	<	Add (Device		< Add Device	Save
S says	an		_	-				•3 ¹²	-	-	Add Mode	P2P
 IFyDor 	nain				S/N		Wireless Camera	Wired Camera	NVR	DVR/XVR	SN	100030-00706
Online	Search				Device SN		<u> </u>		1	e 3	Device Name:	
-		101			700005474288788		IVSS	VTO	Doorbell	Chime	Lisemame:	admin
Ound	Durind										Password: mong upername or password will result in fail	 Wew Reasons
• Local De	•		ប			Next	Access		Alarm Control Panel		16 a5d.	
- KLR loc		(1m)	回说回 STAA 回父兄				Other IPC					
			Automatically scan the device of code placed in the frame.	2R			an an			•		
							L26	C268	F26F/F46F	Smoke Detector		
							Accessor					
O Delever to								11	U.			
- K.M. MAL	e e nor.	-					Keytob	Door Detector	PIR	Siren		
	O O Manage Ma		Manually Enter SN				-	0	Ú.	0		

Figure 3-5 Add VTO to DMSS

- 6) Configure network by switch networking to **AP Configuration**, and then tap **Next**.
- Connect your phone to the hotspot you just enabled on the VTO.
 - The hotspot name is the SN number of your VTO.
 - The current screen will move on to the next step automatically after connection.
 Figure 3-6 AP configuration



<u>Step 4</u> Complete initialization based on instructions on the app.

- 1) Enter the password you planned for the VTO, and confirm it, and then tap **Next**.
- 2) Select Cloud Access and Auto-check, and then tap OK.

The initialization process is completed.

<	Add Device		Cloud Update Cont	figuration
	ntee device safety, plea Usually, it will take 1 – 6		Cloud Access	0
Username				
admin			Register device to Cloud to prepare account to achieve cloud services s	uch as remote
Please enter de	vice password.	Ø	monitoring, device recording, talking and device management. If P2P is no properly use functions such as inter	ot enabled, you may no
1411-			Auto-check	0
Weak	Medium	Strong	The system checks for update once	a day automatically
Please confirm	the device password	Ð	There will be system notification if a Online update is a service that provi updates by cloud. Your device inform	ny update is available. ides you with firmware mation such as device
Email (Optional)	dama con		name, firmware version and device a order to inform you about available information is only used to inform you	firmware updates. All
forget the devic	es is used to receive the defa			

Step 5 Connect the VTO to the network through Wi-Fi.

- 1) Select an available Wi-Fi.
- 2) Enter the password and tap **Next**. Wait for the VTO to connect to the router.

Figure 3-8 Wi-Fi connection

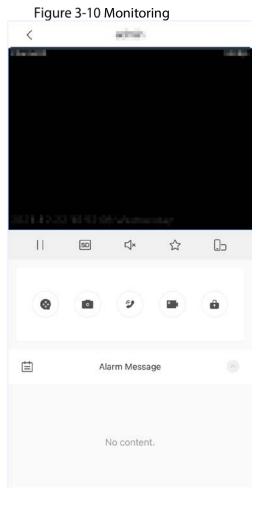
Add Device ····	< Add Device			< Add D	evice	<	Add Device
	Please connect to a Wi-Fi hotspot near you or to one that has a strong signal.	Refre	ah.				
WLAN	14,400,560,600	ð	÷				
borne-1 🖷 🕾	100.00 (100.000 B	ð	9	Wi-Fi Network			(
home-2 & P home-3 & F	10-UNC8204	Ô	ę	CLOWNER_ED			
home-4 & 4 W	ent 198	ô	۰	WI-Fr Password			<u> </u>
Searching available Wi-Fi nearby	MARKER, ARRENT	Ċ	7		¢		
	Name of States	ô	*	Dual band router	fails to support 50 Wi-Fi. ဈ		58
	E3	ô	*				s
	1880	ð	÷				Connecting to the router
	ans cannot in finance	ð	Ŧ				
	Series, 401041	ð	•				
	0mm						
				Ne	xt		Cancel Config

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

Figure 3-9 Configure device name

<	Add Device	Save
Device Name	.	

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



3.2 Configuring Network Parameters

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

Wireless LAN

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

LAN

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

Figure 3-11 Network configuration

WEB SERVICE2.0	¢.c	xal Settings	B-Household Setting	@Network	Search Log	English -	4 f ⊕•
	TCP/II	,					
	Default Card		Transmission Mode	Mode1 Mode 2			
SIP Server	LAN		WLAN				
		10.178	DHCP	ON OFF			
	Subnet Mask	10/011	IP Address				
Firewall	Default Gateway		Subnet Mask				
	MAC Address		Default Gateway				
	Preferred DNS	8888	MAC Address				
	Alternate DNS	8.8.4.4	Preferred DNS				
			Alternate DNS				

Table 3-1 Parameter description

Parameter	Description				
IP Address	Your planned IP address of the VTO.				
Preferred DNS	It is 8.8.8 by default.				
Alternate DNS	It is 8.8.4.4 by default.				
Transmission Mode	 Choose the transmission mode based on your actual needs. Mode 1: Multicast streaming (UDP). Mode 2: RTSP streaming (TCP). Mode 2 is preferred when the switch does not support multicast function, or when the network connection is not good. 				
DHCP	Enable the function to get the allocated IP address for the VTO.				

3.3 Configuring SIP Servers

When connected to the same SIP server, VTOs and VTHs can call each other. You can use a VTO or a platform as the SIP server. We recommend you use a VTO as the SIP server in the villa scenario.

- Log in to the web page of the VTO. Step 1
- Select Network > SIP Server. Step 2
- Configure the parameters. Step 3
 - 1) If the current VTO you have logged into works as the SIP server, enable SIP Server, and keep the default values of other parameters.

Figure 3-12 Current VTO as the SIP server

WEB SERVICE2.0	☆Local Settings		Household Setting	Network
Basic				
	SIP Server	🗹 Enable		
UPnP	Server Type			
	IP Address			
WiFi	Port			
TV II I	Username			
Firewall	Password			
	SIP Domain	VDP		- 8
	SIP Server Username	admin		
	SIP Server Password			

2) If other VTOs work as the SIP server, set Server Type as VTO, and then configure the parameters.

Ш

Do not enable SIP Server, otherwise the connection fails.

	Figure 3-13 Other VTOs as the SIP server			
WEB SERVICE2.0	뀿 Local :	Setting	Household Setting	Network :
Basic				
	SIP Server	Enable		
UPnP	Server Type	vto 👻		
	IP Addr.			
	Port	5060		
Firewall	Username			
	Password			
	SIP Domain	VDP		
	SIP Server Username			
	SIP Server Password			

Parameter	Description
IP Address	The IP address that you planned for the VTO.
Port	5060 by default when a VTO works as SIP server.
SIP Domain	Leave it as default.
Username/Password	Used to log in to the web page of the VTO.
SIP Server Username/ Password	Used to log in to the SIP server.

Table 3-2 Parameter description

3.4 Configuring VTO Numbers

Numbers can be used to distinguish each VTO. In the villa scenario, we recommend you configure the VTO numbers based on your needs.

Background Information

- The VTO number can contain up to 5 numbers, and it must not be the same as other room number you have already configured.
- If a VTO serves as the SIP server, its room number is 8001 by default. You cannot change it.

Procedure

- <u>Step 1</u> Log in to the web page of the VTO.
- <u>Step 2</u> Select **Local Settings** > **Basic**.
- <u>Step 3</u> Enter the room number you planned for the VTO in **No.**, and then click **Confirm**.

Figure 3-14 Configuring VTO Numbers

WEB SERVICE2.0		ngs	5. Household Setti	ng	@ Network	Search Log	English -	
	Device Properties							
Vdeo & Audio	Device Type	Alla Station		Center Call No.	855555			
	Device Name			Colling Center Period	00.00.00			
	Villa Call No. 9	861		Periods in which Calls	Setting			
				can be Made				
	Group Call							

3.5 Configuring Call Numbers and Group Call

Configure basic properties for the VTO, including group call functions, center call number and villa call numbers.

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

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



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

Table 3-3 Parameter description

Parameter	Description
Device Type	Villa Station.
Device Name	The name you planned for your VTO. You could keep it null.
Villa Call No.	Used to call VTHs. It should contain no more than 9 numbers.
Center Call No.	Used to call the center station. It is 888888 by default.
No.	VTO number. 8001 by default when the VTO is selected to work as the SIP server.
Group Call	Enable it for group call.

Step 4 Click Save.

3.6 Adding VTOs

You can add other VTOs to the SIP server (in the Villa scenario a VTO serves as the SIP server), and all the VTOs connected to the same SIP server can make video call to each other.

Prerequisites

Before you start, make sure that you have already select a VTO to work as the SIP server (VTO number 8001).

Procedure

- <u>Step 1</u> Log in to the web page of the VTO that works as the SIP server.
- <u>Step 2</u> Select Household Setting > VTO No. Management.
- Step 3 Select Add.

	Figure	5-16 V 10 NO. Ma	nagement			
WEB SERVICE2.0	尊 Local Settings	Household Setting	Network		Search Log	English -
VTO No. Management	VTO No. Management					
VTH Management		Build No.	Unit No.	IP Address	Modify	Delete
VTS Settings Status	8001			100.000		
Status						
Personnel Management						
	Add Clear					∺

Figure 3-16 VTO No. Management

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

Figure 3	-17 Add VT	Ōs	
Add	ast 1000		×
Rec No.			
Register Password	•••••		
Build No.			
Unit No.			
IP Address			
Username			
Password			
		Save	Cancel

Table 3-4 Parameters

Parameter	Description
Rec No.	The room number of the VTO.
Register Password	Keep it by default.
Build No.	Keep them null when the VTO serves as the SIP server. The two parameters
Unit No.	are only applicable when the platform works as the SIP server.
IP Address	IP address of the VTO.
Username	The username and password used to log in to the web page of the VTO.
Password	The user lame and password used to log in to the web page of the vio.

3.7 Adding VTH Room Number

When VTO serves as the SIP server, you can add VTH into the main VTO to achieve intercom functions.

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

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

 Figure 3-18 VTH Management

 vras scr.vzcz.o
 ©local Settings
 intocenhold Setting
 @Network
 Search Log
 Indih

 VTD No Management
 VTM Management
 Not New
 Neghtwater Mucht
 Moorth

 VTD No Management
 Not New
 Neghtwater Mucht
 Moorth

 VTS Searage
 990140
 public
 X

 Status
 990142
 public
 X

 990143
 public
 X
 Pooldic

 990144
 00141
 public
 X

publi publi

<u>Step 3</u>	Select Add to register new VTH onto the main VTO.

-

. 18

Fig	ure 3-19 Add VTH		
Add			×
en na seu de la seu La seu de la			
First Name			
Last Name			
Nick Name			
Room No.			
Registration Mode	public	-	
Registration Password			
		Save	Cancel

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

Table 3-5 Description

Parameters	Description
First Name	
Last Name	Information used to differentiate each room. You can also keep them null.
Nick Name	

Parameters	Description
Room No.	 The room number can contain 6 digits of numbers of letters or their combination at most, and it cannot be the same as any VTO number. When there are multiple VTHs, the room number for the main VTH should end with #0 and the room numbers for extension VTHs with #1, #2
Registration Mode	Select Public .
Registration Password	Leave it as default.

Step 5 Click Save.

Related Operations

Click 🚺 to modify room information, and 📕 to delete the room.

3.8 Binding VTH Room Numbers (For Certain Models Only)

This section only applies to the VTOs that with multiple buttons.

- <u>Step 1</u> Log in to the web page of the VTO.
- <u>Step 2</u> Select Local Settings > Basic.
- <u>Step 3</u> In the **Façade Layout** section, select **Count** type.
 - Count 1: Can only bind one room number.
 - Count 2: Can bind two room numbers.
 - Count 4: Can bind four room numbers.

	Figure 3-20 Count	
Facade Layout		
• • •	Count 4 1 2 4	
9901		
\$ \$ a		

<u>Step 4</u> Click on the white module, and select the room number from the **Room List** you want to bind.

Figure 3-21 White module

Facade Layout	 	
• •	Count 4	•
9901 9901		

Figure 3-22 Room list

Room List			×
888888			
9901			
	Clear	Save	Cancel

<u>Step 5</u> Click **Save** to save the selected room number.

Step 6 Click **Confirm** to save all the settings.

Figure 3-23 Confirm

Facade Layout		
• •	Count 4	
9901		
0 6 đ		Confirm

3.9 Issuing Cards

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

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

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

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

Figure	3-24	Personnel	manager	nent
riguic	J 27	I CISOIIICI	munuger	nene

WEB SERVICE2.0	\$P	Local Settings	Household Setting	Network	Search Log	English -
VTO No. Management	Personnel M	anagement				
VTH Management		Personnel No.	Room No.	Username	Card Info	Modify Delete
VTS Settings						
Status						
				No data		
	Add Personnel Exp	Refresh ort Personnel Import	Clear			⊯ ≼ 1/1 ⊳ ⊨ Goto +
	2 clavilla cap					



Figure 3-25 Add Personnel Information

Add					×
e dediti de la dese Antico anglo anglo de					
Personnel No.					
Room No.					
Username					
Unlock Permission	<mark> L</mark> ock 1	🖌 Lock 2			
			Save	Cancel	

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

- Lock1: local lock.
- Lock 2: 485 lock.

 \square

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

		Figure 3-26 Op	peration succeed				
\$	Local Settings	Household Setting	() Network	Search Lo	≥g	Englist	
Personnel M	lanagement						
No.	Personnel No.	Room No.	Username	Card Info	QR Code	Modify	Delete
		22	222			1	

 \square

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

For some VTO models, the QR code is embedded in the Personnel Management page. Yet for some models, you need to go to **Network > Basic > Cloud Service** to check the QR code. Figure 3-27 Card issuing window

Card Info				×
No.	Card No.	Name	Modify	Delete
		No data		
Clear			1/1 ⊧ ⊧	Goto +
			Issue Card	

<u>Step 6</u> Click **Issue Card** to issue cards.

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

	Figure 3-28 Countdown in process						
Card Info				×			
111 ^{- 1}							
No.	Card No.	Name	Modify	Delete			
		No data					
/							
Clear	n na san ang		4 ∢ 1,	/1 ▶ ⊮ Goto 📃 +			
	98s	Confirm Send Card	Cancel Ser	nd Card			
	Card(s)	0					

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

Figure 3-29 Information of the newly issued card

Card Info		, ,		×
No.	Card No.	Name	Modify	Delete
1	DD589122		81	

Other Operations

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

4 Commissioning

After the basic configuration is complete, check whether the intercom communication works.

4.1 VTO Calling VTH

Once the VTO and VTH are connected, the duel communication function is enabled.

<u>Step 1</u> Dial a room number (for example, 9901) on the VTO.

<u>Step 2</u> Tap <u></u> to answer the call on the VTH.



Figure 4-1 Call screen

4.2 VTH Monitoring VTO

A VTH can monitor the VTO.

- <u>Step 1</u> On the home screen of the VTH, select **Monitor** > **Door**.
- <u>Step 2</u> Set the VTO to go to the monitoring screen.
- <u>Step 3</u> Tap the icon to view the video.



Figure 4-3 Monitoring



Appendix 1 Cybersecurity Recommendations

Mandatory actions to be taken for basic equipment 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 equipment (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 equipment 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 equipment network security:

1. Physical Protection

We suggest that you perform physical protection to equipment, especially storage devices. For example, place the equipment 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 equipment (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 equipment, 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 equipment 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 equipment, 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 equipment 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.