# Face Recognition Apartment Outdoor Station

User's Manual

# Important

The following functions are for reference only. Some series products may not support all the functions listed below.

# Mandatory actions to be taken towards cybersecurity

• Change Passwords and Use Strong Passwords:

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

Update Firmware

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

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

• Change Passwords Regularly

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

- Change Default HTTP and TCP Ports:
  - Change default HTTP and TCP ports for systems. These are the two ports used to communicate and to view video feeds remotely.
  - These ports can be changed to any set of numbers between 1025-65535. Avoiding the default ports reduces the risk of outsiders being able to guess which ports you are using.
- Enable HTTPS/SSL:

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

• Enable IP Filter:

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

• Change ONVIF Password:

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

• Forward Only Ports You Need:

- Only forward the HTTP and TCP ports that you need to use. Do not forward a huge range of numbers to the device. Do not DMZ the device's IP address.
- You do not need to forward any ports for individual cameras if they are all connected to a recorder on site; just the NVR is needed.
- Disable Auto-Login on SmartPSS:

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

Use a Different Username and Password for SmartPSS:

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

• Limit Features of Guest Accounts:

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

- UPnP:
  - UPnP will automatically try to forward ports in your router or modem. Normally this would be a good thing. However, if your system automatically forwards the ports and you leave the credentials defaulted, you may end up with unwanted visitors.
  - If you manually forwarded the HTTP and TCP ports in your router/modem, this feature should be turned off regardless. Disabling UPnP is recommended when the function is not used in real applications.

• SNMP:

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

• Multicast:

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

• Check the Log:

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

• Physically Lock Down the Device:

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

• Connect IP Cameras to the PoE Ports on the Back of an NVR:

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

• Isolate NVR and IP Camera Network

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

# **Regulatory Information**

The regulatory information herein might vary according to the model you purchased. Some information is only applicable for the country or region where the product is sold.

#### **FCC** Information

# 

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

#### FCC conditions:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

#### FCC compliance:

This equipment has been tested and found to comply with the limits for a digital device, pursuant to part 15 of the FCC Rules. This equipment generate, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communication.

- For class A device, these limits are designed to provide reasonable protection against harmful interference in a commercial environment. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.
- For class B device, these limits are designed to provide reasonable protection against harmful interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
  - Reorient or relocate the receiving antenna.
  - Increase the separation between the equipment and receiver.
  - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
  - Consult the dealer or an experienced radio/TV technician for help.

# General

This Manual introduces the function, structure, networking, mounting process, configuration process, WEB interface operation, and technical parameters of the device.

# Safety Instructions

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

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

# **Revision History**

No.	Version	Revision Content	Release Date
1	V1.0.0	First release	2018.09

# **Privacy Protection Notice**

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

# About the Manual

• The Manual is for reference only. If there is inconsistency between the Manual and the actual product, the actual product shall prevail.

- We are not liable for any loss caused by the operations that do not comply with the Manual.
- The Manual would be updated according to the latest laws and regulations of related regions. For detailed information, see the paper manual, CD-ROM, QR code or our official website. If there is inconsistency between paper manual and the electronic version, the electronic version shall prevail.
- All the designs and software are subject to change without prior written notice. The product updates might cause some differences between the actual product and the Manual. Please contact the customer service for the latest program and supplementary documentation.
- There still might be deviation in technical data, functions and operations description, or errors in print. If there is any doubt or dispute, please refer to our final explanation.
- Upgrade the reader software or try other mainstream reader software if the Manual (in PDF format) cannot be opened.
- All trademarks, registered trademarks and the company names in the Manual are the properties of their respective owners.
- Please visit our website, contact the supplier or customer service if there is any problem occurred when using the device.
- If there is any uncertainty or controversy, please refer to our final explanation.

# **Important Safeguards and Warnings**

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

# Electrical safety

- All installation and operation should conform to your local electrical safety codes.
- The power source shall conform to the requirement of the Safety Extra Low Voltage (SELV) standard, and supply power with voltage rated by DC 12 V or AC 24 V according to the Limited power Source requirement of IEC60950-1. Please note that the power supply requirement is subject to the device label.
- Make sure the power supply is correct before operating the device.
- A readily accessible disconnect device shall be incorporated in the building installation wiring
- Prevent the power cable from being trampled or pressed, especially the plug, power socket and the junction extruded from the device.
- We assume no liability or responsibility for all the fires or electrical shock caused by improper handling or installation.

# Environment

- Do not aim the device at strong light to focus, such as lamp light and sun light, otherwise it might cause over brightness or light marks, which are not the device malfunction, and affect the longevity of Charge Coupled Device (CCD) or Complementary Metal-Oxide Semiconductor (CMOS).
- Do not place the device in a damp or dusty environment, extremely hot or cold temperatures, or the locations with strong electromagnetic radiation or unstable lighting.
- Keep the camera away from water or other liquid to avoid damages to the internal components.
- Keep the indoor device away from rain or damp to avoid fire or lightning.
- Keep sound ventilation to avoid heat accumulation.
- Transport, use and store the device within the range of allowed humidity and temperature.
- Heavy stress, violent vibration or water splash are not allowed during transportation, storage and installation.
- Pack the device with standard factory packaging or the equivalent material when transporting the device.

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# 1.1 General

This face recognition apartment outdoor station (hereinafter referred to be "the VTO") can be connected to the video intercom home station (VTH), video intercom master station (VTS), and servers to constitute a video intercom system, which supports video call between visitors and residents. The VTO supports unlocking by face recognition and fingerprint recognition. It also supports security functions, including emergency call, information publishing, and history viewing. The VTO is applicable in residence communities and villa areas; together with a management server, it can provide overall burglar proof, disaster prevention, and security surveillance.

# 1.2 Features

#### Video Intercom

Make video call with the management center or VTH users.

# **Group Call**

When calling a master VTH, the extension VTH devices receive the call as well.

#### Area Surveillance

Monitor areas around the VTO from VTH or management center, and the VTO can send up to six video streams at a time.

#### **Emergency Call**

Single press to call the management center under emergency.

#### Auto Snapshot

The system takes snapshots automatically when unlocking or during video communication, and then save them to the FTP server.

#### Face Data Adding

Add data of up to 10,000 faces to the VTO or add them in batch from the server to realize face unlock.

# **Fingerprint Adding**

Add data of up to 3,000 fingerprints to the VTO or add them in batch from the server to realize fingerprint unlock.

#### Alarm

Supports various alarms, including tamper alarm, door contact alarm, and duress password alarm. The alarm will also be sent to the management center.

## Information Publishing

The VTO can send information to multiple VTH devices.

#### **History Viewing**

View call history, alarm history, and unlocking history.

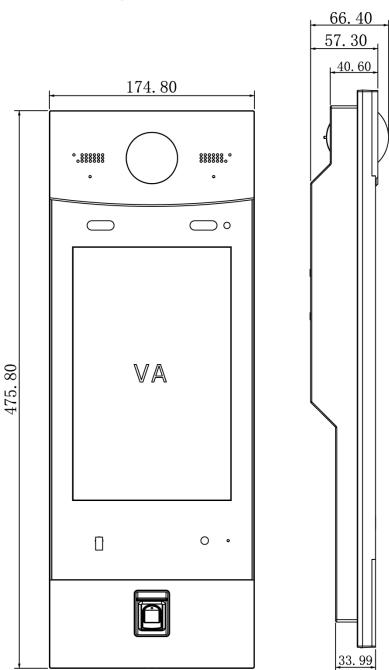
### **Motion Detection**

The VTO screen lights up when moving object approaching.

# 2.1 Dimension

# 2.1 Dimension

See Figure 2-1 for the dimension.



### Figure 2-1 Dimension(unit: mm)

# 2.2 Front Panel

See Figure 2-2 for the front panel, and for the detailed description, see Table 2-1.

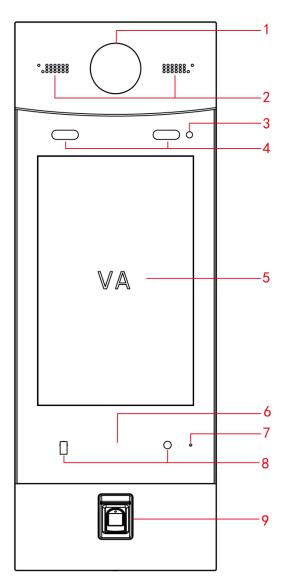
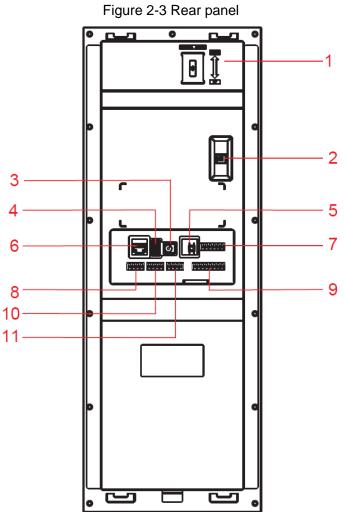


Table 2-1 Front panel description

No.	Name	Description	
1	Camera	Monitors door area, and recognizes face	
1	Camera	information.	
2	Speaker	Outputs audio.	
3	Light sensor	Detects ambient lighting condition.	
		• Provides extra light when recognizing faces.	
4	Fill light	• Provides extra light to the camera during dark	
		condition.	
5	Screen	10-Inch IPS HD screen.	
		• Issues access card, which is giving an access	
6	Access card area	card the unlocking authority.	
		Recognizes access card and unlock.	
7	Microphone	Inputs audio.	
8	Motion concor	The sensor is triggered when people or object	
°	Motion sensor	approaching.	
9	Fingerprint sensor	Adds fingerprint data or unlock by fingerprint.	

# 2.3 Rear Panel



See Figure 2-3 for the rear panel, and for the detailed description, see Table 2-2.

Table 2-2 Rear panel description

No.	Name	Description	
1	Camera angle adjusting knob	Pull up or down to adjust camera angle.	
2	Tamper alarm switch	The VTO would make alarm sound if it is being removed from the wall by force, and the alarm will also be sent to the management center.	
3	Power port	Inputs power to the VTO.	
4	USB debugging port	Connects to debugging devices.	
5	Reset button	Press and hold the button for 8 s to reset the VTO.	
6	Ethernet port	Connects to the network with Ethernet cable.	
7	Door lock port	See "2.3.1 Door Lock Port."	
8	RS485 port	See "2.3.2 RS485 Port."	
9	Wiegand port	See "2.3.3 Wiegand Port."	
10	Alarm-in port	See "2.3.4 Alarm-in Port."	
11	Alarm-out port	See "2.3.5 Alarm-out Port."	

# 2.3.1 Door Lock Port

This port can be used to connect to door locks, and the connection method varies with different locks. For the detailed information, see Figure 2-4, Figure 2-5, and Figure 2-6.

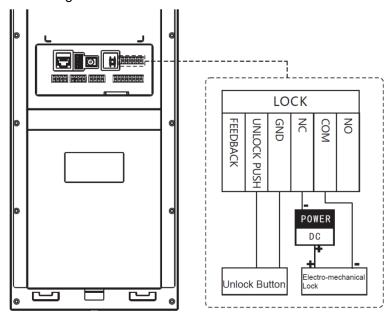
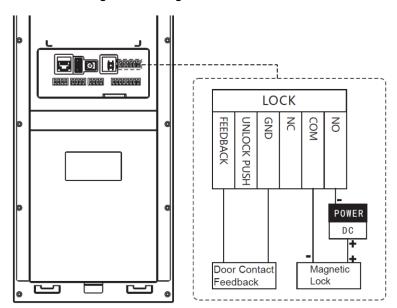
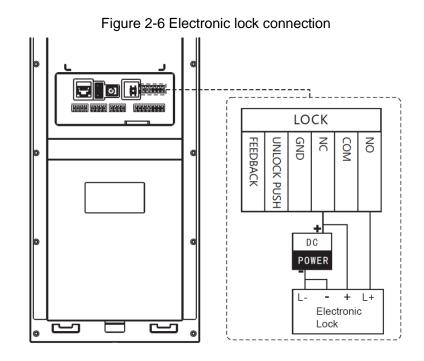


Figure 2-4 Electro-mechanical lock connection

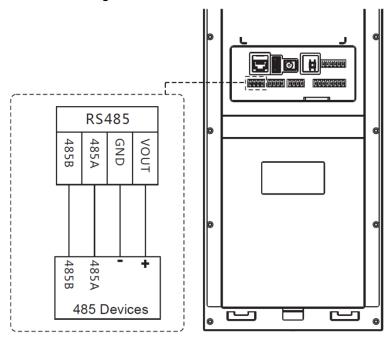
Figure 2-5 Magnetic lock connection

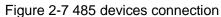




# 2.3.2 RS485 Port

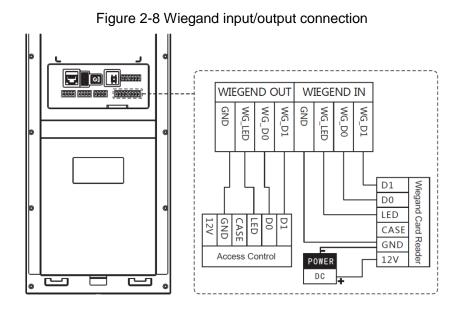
This port can be used to connect to 485 devices. For the detailed connection method, see Figure 2-7.





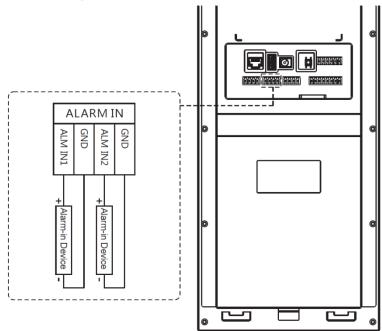
# 2.3.3 Wiegand Port

This port is reserved, which includes one set of input port and one set of output port. The Wiegand input port can connect to the Wiegand card reader, and the Wiegand output port can connect to the access controller. For the detailed connection method, see Figure 2-8.



# 2.3.4 Alarm-in Port

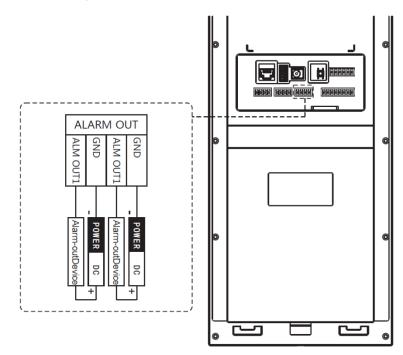
There are two alarm-in ports, which can connect to two alarm input devices. See Figure 2-9. Figure 2-9 Alarm input device connection



# 2.3.5 Alarm-out Port

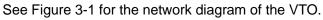
There are two alarm-out ports, which can connect to two alarm output devices. See Figure 2-10.

Figure 2-10 Alarm output device connection



# 3

# **Network Diagram**



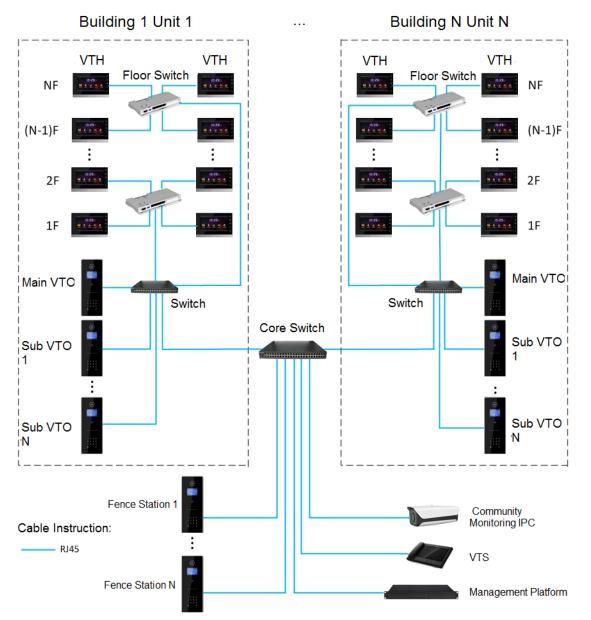


Figure 3-1 Network diagram

# 4

# Installing the VTO

# 4.1 Installation Requirement

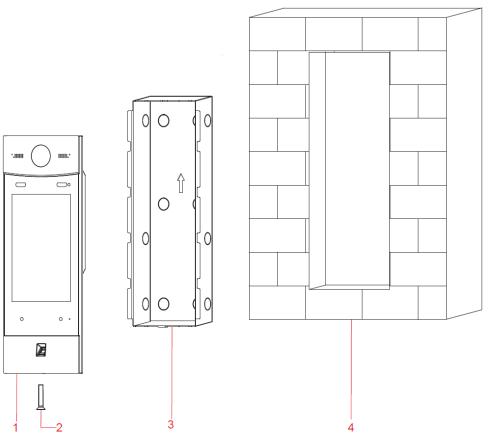
- Do not install the VTO to places with condensation, high temperature, grease or dust, chemical corrosion, direct sunlight, or zero shelter.
- The installation and adjustment must be finished by professional crew, and do not disassemble the VTO by yourself.

# 4.2 Connecting Cable

For the connection method, see "2.3 Rear Panel."

# 4.3 Attaching the VTO

For the installation diagram, see Figure 4-1, and for the installation item list, see Table 4-1. Figure 4-1 VTO installation



Т	able	4-1	Item	list
I.	able	4-1	ILEIII	1131

No.	ltem	No.	Item
1	VTO	2	Screw
3	Mounting box	4	Wall

 $\square$ 

Keep the center of the VTO at 1.4 m to 1.6 m above the ground.

<u>Step 1</u> Attach the VTO to the mounting box with the screw.

- <u>Step 2</u> Cut an opening with the size of the mounting box on the wall, and then put the mounting box and the VTO in the opening.
- <u>Step 3</u> Put sealant between the VTO, mounting box, and the wall.

# Configuring Devices

This chapter introduces how to make basic configurations and realize network connection, calling, and monitoring. Before configuration, make sure the following works are finished.

- Make sure there is no short circuit or open circuit in the circuits, and then power up the devices.
- Properly plan the IP address, building number, and room number for every device.
- Confirm the location of the SIP server.

# **5.1 Configuration**

- The VTO requires VTH devices with SIP system to function, and this manual takes configuring the 10-inch model VTH for example.
- You need to configure every VTO and VTH in the network.

# 5.1.1 Configuring VTO

# 5.1.1.1 Initializing VTO

For first time login, you need to create a new password for the Web interface.

The default IP address of the VTO is 192.168.1.110, and make sure the PC is in the same network segment with the VTO.

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

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

The password setting interface is displayed. See Figure 5-1.

Device		X
	<b>1</b> Setting <b>2</b> Protect <b>3</b> OK	
	Username admin	
	New Password	
	Confirm	
	Use a password that has 8 to 32 characters, it can be a combination of letters, numbers and symbols (please do not use special symbols like ' $x$ " $x$ ; $x$ : $x$ &)	
	Next	

Figure 5-1 Password setting

<u>Step 3</u> Enter and confirm the password, and then click **Next**.

The Email setting interface is displayed. See Figure 5-2.
This password is to login the Web interface, and it should contain at least 8 digits and at
least two types from number, letter, and symbol.
Figure 5-2 Email setting
Device
1 Setting 2 Protect 3 OK
<ul> <li>Email</li> <li>(To reset password, please input properly or update in time)</li> </ul>
Next

<u>Step 4</u> Select the **Email** check box, and then enter your Email address.

This Email address can be used to reset the password, and it is recommended to finish this setting.

#### Step 5 Click Next.

The **Device Succeed** interface is displayed. See Figure 5-3. The initialization is finished.

Device				×
	1 Setting	2 Protect	Зок	
		Device Succe	ed!	
		Ok		

#### Step 6 Click OK.

The login interface is displayed. See Figure 5-4

Figure 5-4 Login

Door Station Web Server V1.0	
Δ	
9	Forgot Password?
Login	

Step 7 Enter the username and the password, and then click Login.

- The default username is admin.
- The password is what you configured during initialization.

# 5.1.1.2 Modifying VTO IP Address

You can modify the default IP address of the VTO to the one you planned.

Step 1 Select System Config > Network Config > TCP/IP.

The **TCP/IP** interface is displayed. See Figure 5-5.

Figure 5-5 TCP/IP

🔻 System Config	TCP/IP	FTP C	Config	SIP Server	Config	Port Config	HTTPS Setting
> Local Config							
> LAN Config	IP Ac	idress 192	2.168.1.110				
Network Config	Subne	t Mask 255	5.255.0.0				
> Video Set	Default Ga	atoway 107	2.168.1.1				
> User Manager							
> IP Purview	MAC Ac	idress 4c:	11:bf:7c:9	b:35			
Info Search		SSH 🔘 🤆	Turn on	Turn off			
▶ Logout		[	Default	Refresh	ОК		

<u>Step 2</u> Enter the IP address, subnet mask, and default gateway you planned, and then click **OK**.

The VTO will reboot after modification, and then there might be two conditions.

- If the PC IP address is within the planned network segment, the login interface with newly modified IP address is displayed, and you can login.
- If the PC IP address is not within the planned network segment, you need to modify its IP address and add it in the planned network segment, and then you can login.

# 5.1.1.3 LAN Config

You can configure the type of the SIP serve and the number of the VTO. SIP server is required in the network to transmit intercom protocol, and all the VTO and VTH devices connected to the same SIP server can make video call between each other.

Select **System Config > LAN Config**, and then the **LAN Config** interface is displayed. See Figure 5-6.

System Config	LAN Config	Resident	e Config			
> Local Config						
> LAN Config		No. 800	)1			
> Device Manager						
> Network Config	Support	Group 💿 T	urn on	Turn off		
> Video Set	Serv	er Type VTC	)	-		
> User Manager						
> IP Purview		Warr	ning:The de	evice needs reboo	t after modifing	the config above.
> IPC Information						
> Publish Information			Default	Refresh	ОК	]

Figure 5-6 LAN config

• If VTO works as SIP server

Select VTO in Server Type, and then click OK.

• If third party server (Express by default) works as SIP server

Select the server type you need in **Server Type**, and then click **OK**.

Ш

When third party server works as SIP server, you can select **Turn on** at **Support Building** and **Support Unit** to configure building and unit number. For the detailed configuration, see the corresponding manual.

# 5.1.1.4 Configuring SIP Server

Select System Config > Network Config > SIP Server Config, and then the SIP Server Config interface is displayed. See Figure 5-7.

🔻 System Config	TCP/IP F	TP Config	SIP Server Config	Port Config	HTTPS Setting
> Local Config					
> LAN Config	IP Address	192.168.1.111			
> Network Config	Port	5060	(1~65535)		
> Video Set	Username	8001			
> User Manager	Password	•••••			
> IP Purview					
Info Search	SIP Realm	VDP			
Logout	Username of SipServer	admin			
	Password of SipServer	•••••			
		Sip Server Ena	able		
			3016		
	Standby IP Address				
	Username of BackUp	admin			
	Password of BackUp	••••			
	Backup VTS IP	0.0.0.0			
		Standby Serve	r Enable		
		Warning:The devic	e needs reboot after modi	fing the SIP server enable.	
		Default	Refresh OK		

• If the VTO you are visiting works as SIP server

Select **SIP Server Enable**, and then click **OK**. The VTO reboots, and then the login interface is displayed. After logging in, the **Device Manager** will display in the menu. You need to add VTO and VTH then. See "5.1.1.5 Adding VTO" and "5.1.1.6 Adding VTH."

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μ	_	-	

If third party server or other VTO work as SIP server, do not select the **SIP Server Enable** check box, otherwise the connection will fail.

• If other VTO works as SIP server

See Table 5-1 for the configuration, and then click **OK**. The VTO reboots, and then the login interface is displayed.

Parameter	Description		
IP Address	The IP address of the VTO that works as SIP server.		
Port	It is <b>5060</b> by default.		
Username	Leave to the default.		
Password			
SIP Domain	The SIP Domain is VDP.		
Login			
UserName	The username and password of the SIP server.		
Login PWD			

Table 5-1 SIP server config (1)

• If third party server works as SIP server

See Table 5-2 for the configuration, and then click **OK**. The VTO reboots, and then the login interface is displayed.

Table 5-2 SIP server config (2)

Parameter	Description
IP Address	The IP address of the server that works as SIP server.
Port	It is <b>5080</b> by default.

Parameter	Description	
Username	Leave to the default.	
Password		
SIP Domain	Leave it blank or keep the default.	
Login		
UserName	The username and password of the SIP server.	
Login PWD		
٦		

 $\square$ 

If third party server is configured as SIP server, see the manual of the server for the detailed configuration.

# 5.1.1.5 Adding VTO

<u>Step 1</u> Login the Web interface of the VTO that is configured as SIP server.

<u>Step 2</u> Select System Config > Device Manager > Outdoor Station Manager.

The **Outdoor Station Manager** interface is displayed, see Figure 5-8.

Figure 5-8 Outdoor station manager

🔻 System Config	OutDoor Station Manager	8001-Indoor Station Manager	Config Manager	Master station management			
> Local Config		·	-				
> LAN Config	Check	No.	Building No.	Building Unit No.	IP Address	Modify	Delete
> Device Manager		8001			127.0.0.1	2	•
> Network Config	Add Clear					₩ ◀ 1/1 ►	🔰 Go to 📄 📦
> Video Set							
> User Manager							
> IP Purview							
> IPC Information							
> Publish Information							
> UPnP Config							
▶ Info Search							
▶ Status Statistics							
▶ Logout							

#### Step 3 Click Add.

The Add interface is displayed. See Figure 5-9.

Figure 5-9 Add

Add		×
No.		
Register Password	•••••	
Building No.		
Building Unit No.		
IP Address	127.0.0.1	
Username		
Password		
	OK Cancel	

<u>Step 4</u> Configure VTO parameters. See Table 5-3 for the details.

Parameter	Description
No.	The number you planned for the VTO.
Register Password	Leave to the default.

Parameter	Description
IP Address	The IP address of the VTO.
Username	The username and password for the Web interface of the
Password	VTO.

<u>Step 5</u> Click **OK** to finish configuration.

Do the operation above repeatedly to add more VTO devices in the network.

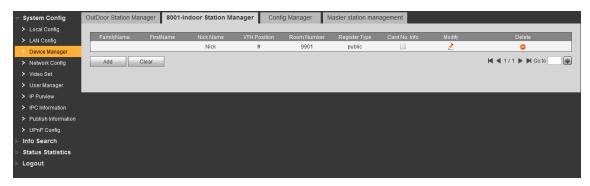
# 5.1.1.6 Adding VTH



If there are master VTH and extension VTH being used, you need to add them all.

- <u>Step 1</u> Login the Web interface of the VTO that is configured as SIP server.
- <u>Step 2</u> Select System Config > Device Manager > 8001-Indoor Station Manager.

The **8001-Indoor Station Manager** interface is displayed, see Figure 5-10. Figure 5-10 8001-indoor station manager



#### Step 3 Click Add.

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

Add		×
FamilyName		
FirstName		
Nick Name		
VTH Short No.		
Register Password	•••••	
Register Type	public 👻	
	OK Cancel	

Step 4 Configure VTH parameters. See Table 5-4 for the details.

Table 5-4 VTH parameters

Parameter	Description			
FamilyName	Configure the name and nickname of the V/TLL upper to			
FirstName	Configure the name and nickname of the VTH users to differentiate them.			
Nick Name				
VTH Short No.	The VTH short number should be the same as the room			

Parameter	Description		
	number you planned for the VTH.		
	If there are master VTH and extension VTH being used, the		
	short number of the master VTH should be "room number#0",		
	and the extension VTH to be #1, #2, and #3 and so on.		
Register Password	Leave to the default.		
Register Type			

<u>Step 5</u> Click **OK** to finish configuration.

Do the operation above repeatedly to add more VTH devices in the network.

# 5.1.2 Configuring VTH

# 5.1.2.1 Initializing VTH

Configure VTH password and link to your Email.

- Password: it can be used to go to the engineering interface, mostly for admin people or engineers.
- Email: it can be used to reset the password.

<u>Step 1</u> Power up the VTH.

The **WELCOME** sign is displayed, and then the **Device Init** interface. See Figure 5-12. Figure 5-12 Device initialization

Device Init	
Password	
Confirm Pwd	
Email	
ОК	

<u>Step 2</u> Enter and confirm the password, and then enter the Email.

Step 3 Tap OK.

The main interface is displayed. See Figure 5-13.

Figure 5-13 Main interface



# 5.1.2.2 Configuring VTH Network

# 

Make sure the VTH is in the same network segment with the VTO, otherwise the VTH cannot get information from the VTO.

- <u>Step 1</u> In the main interface, press and hold **Setting** until the **Password Verification** dialog box displays.
- <u>Step 2</u> Enter the password you configured during initialization, and then tap **OK**.

#### Step 3 Tap Network.

The **Network** interface is displayed. See Figure 5-14 or Figure 5-15.

Wireless function is available on select models.

9901

Network

VTH Config

SIP Server

VTO Config

Default

Reset MSG

Figure 5-14 Network(1)

Figure 5-15 Network (2)

Network	WLAN			LAN				
VTH Config	Local IP	172	. 26	. 8	. 90			
SIP Server	Subnet Mask	< 255	. 255	. 0	. 0			
VTO Config	Gateway	172	. 26	. 0	. 1			
Default	MAC							
Reset MSG	DHCP		OFF					
				ОК				

<u>Step 4</u> Configure network with different access modes.

• LAN

Enter the IP address, subnet mask, and gateway, and then click **OK**; Tap off to enable DHCP and acquire IP address automatically.

 $\square$ 

If the VTH has wireless function, tap WLAN to configure network.

- WLAN
- 1) Tap <sup>off</sup> to enable Wi-Fi function.

The Wi-Fi networks that have been found are listed. See Figure 5-16.

9901		Network			
Network	WLAN	LAN	WireLess IP		
VTH Config	WIFI Name			ON	
SIP Server	D6-zhangbin		ſ	Ŷ	
VTO Config	D6_15667_meiyou	ımingzi	6	<b>^</b>	
Default	D6_32702_zhubo		<u> </u>	<b>?</b>	
	ZNLY_test_wen		ſ	Ŷ	
Reset MSG	zwantest1		<u> </u>	<b></b>	
			1/3	<	>

#### 2) Connect Wi-Fi.

There are two ways to connect Wi-Fi:

- ♦ Select the Wi-Fi you need in the list, and then tap Wireless IP. Enter the IP address, subnet mask, and gateway, and then click OK.
- Select the Wi-Fi you need in the list, and then tap Wireless IP. Tap off to enable DHCP and acquire IP address automatically. See Figure 5-17.

To acquire IP address with DHCP, you need to connect the devices to a router with DHCP function.

Figure 5-17 Wireless IP

9901		Network		2 🗐 🚺
Network	WLAN	LAN	WireLess IP	
VTH Config	Local IP			
SIP Server	Subnet Mask			
VTO Config	Gateway			
Default	MAC			
Reset MSG	DHCP	ON		

# 5.1.2.3 VTH Config

You can configure room number, VTH type, and Master IP.

- <u>Step 1</u> In the main interface, press and hold **Setting** until the **Password Verification** dialog box displays.
- <u>Step 2</u> Enter the password you configured during initialization, and then tap **OK**.
- Step 3 Tap VTH Config.

The VTH Config interface is displayed. See Figure 5-18.

	Different i	
Room No.	9901	Master
Master IP		
Master Name		
Master Pwd		
Version		
SSH	OFF	
	Master Name Master Pwd Version	Master IP     6     0     0       Master Name     admin       Master Pwd     eccce       Version     V4.200.00000011.0.R.20180105.

#### <u>Step 1</u> Configure the VTH information.

• Configure master VTH Enter the room number (such as 9901).

 $\square$ 

- If you only use single VTH, the room number should be the same as the VTH short number you configured.
- If there are master VTH and extension VTH being used, the short number of the master VTH should be "room number#0", and the extension VTH to be #1, #2, and #3 and so on.
- Configure extension VTH

- 1. Tap Master, and then the VTH type changes to Extension.
- Enter the room number (such as 9901#1), the IP address of the master VTH, master name, and the master password.

The master name and the master password are the username and password of the master VTH. The username is admin by default, and the password is what you configured during initialization.

<u>Step 2</u> (Optional) Tap <sup>OFF</sup> to enable SSH.

If the SSH is enabled, you can login the VTH through SSH protocol with debugging terminal, and do operations and debugging.

Step 3 Tap OK to save.

# 5.1.2.4 Configuring SIP Server

You can enter the SIP server information and connect the VTH to the SIP server.

- <u>Step 1</u> In the main interface, press and hold **Setting** until the **Password Verification** dialog box displays.
- <u>Step 2</u> Enter the password you configured during initialization, and then tap **OK**.
- Step 3 Tap SIP Server.

The **SIP Server** interface is displayed. See Figure 5-19.



Step 4 Configure SIP server parameters. For the detailed description, see Table 5-5.

Table 5-5	SIP	server	parameter
-----------	-----	--------	-----------

Parameter	Description		
	• If third party server works as SIP server, enter the server's		
Server IP	IP address.		
	• If VTO works as SIP server, enter the VTO's IP address.		
Network Port	• If third party server works as SIP server, enter 5080.		
	<ul> <li>If VTO works as SIP server, enter 5060.</li> </ul>		
User Name	Leave to the default.		
Register Pwd			
Domain	Leave it blank or keep the default.		

Parameter	Description		
	If VTO works as SIP server, the <b>Domain</b> should be VDP.		
User Name	- The username and password of the SIP server.		
Login Pwd			

<u>Step 5</u> Set the **Enable Status** to  $\bigcirc$  **E**.

The SIP server function is enabled.

Step 6 Tap OK to save.

# 5.1.2.5 VTO Config

You can enter the VTO information and connect the VTH to the VTO.

- <u>Step 1</u> In the main interface, press and hold **Setting** until the **Password Verification** dialog box displays.
- <u>Step 2</u> Enter the password you configured during initialization, and then tap **OK**.
- Step 3 Tap VTO Config.

The VTO Config interface is displayed. See Figure 5-20.

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

Figure	5-20	VTO	Config
--------	------	-----	--------

Step 4 Add VTO or fence station.

If you use single VTO, then only enter the VTO information at **Main\_VTO Name**; if you use multiple VTO devices, you can select any one as the main VTO, and then the other VTO devices will be sub VTO, and they sync information from the main VTO.

- Add main VTO
- 1) Enter the name and IP address of the main VTO, and then its username and password. See Figure 5-20.
- Set the Enable Status to

Be sure to enter the username and password for the Web interface of the main VTO, otherwise the connection will fail.

- Add sub VTO or fence station
- 2) Enter the name and IP address of the sub VTO or fence station, and then their username and password.
- 3) Set the **Enable Status** to  $\bigcirc$  **E**.

# **5.2 Verifying Configuration**

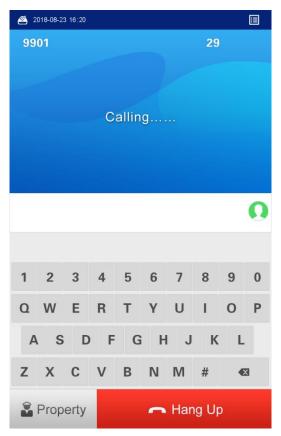
# 5.2.1 Calling VTH from VTO

<u>Step 1</u> Enter the room number of the VTH on the VTO.

Step 2 Tap Call.

The "Calling now, please wait a moment" voice notice comes up, and then the calling request lasts for 30 s. See Figure 5-21.

Figure 5-21 Calling the VTH



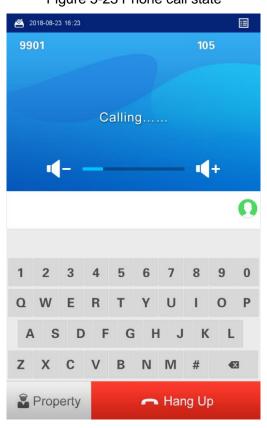
<u>Step 3</u> The call screen is displayed on the VTH. See Figure 5-22. Figure 5-22 Call screen





on the VTH to answer the call.

The VTO is in the phone call state. See Figure 5-23, and the configuration succeeded. Figure 5-23 Phone call state



### 5.2.2 Doing monitor from VTH

You can monitor the area that VTO covers from VTH.

<u>Step 1</u> In the main interface of the VTH, select **Monitor > Door**, and then the **Door** interface is displayed. See Figure 5-24.



Figure 5-24 Door

<u>Step 2</u> Select the VTO you need to do monitor, see Figure 5-25.

Figure 5-25 Monitor screen





This chapter introduces the functions of the VTO, including calling residents, unlock, adding and searching face/fingerprint/access card, system configuration, and information searching.

# 6.1 Main interface

The main interface is displayed after booting. See Figure 6-1. For the detailed description, see Table 6-1.

<b>2</b> 2	018-08-2	3 16:24							
			2	Face R	ecognit	ion			
			<b>, s</b> o	wner F	Registra	tion			
Coll LI	ser:Roo	m No. I	Draga	all					
· · · · · · · · · · · · · · · · · · ·	ord Unl				sword+	#			
									0
1	2	3	4	5	6	7	8	9	0
٥	W	Е	R	т	Y	U	Т	0	Ρ
Д	s	D	F	G	i H	J	К	L	
z	х	С	V	в	N	М	#	•	3
	Prop	erty			C	Ca			

#### Figure 6-1 Main interface

Table 6-1	Main	interface	description
	mann	muchauce	ucounption

Name	Description
Function list	The functions that the residents can use, and tap to open.
	Dial numbers to make phone call.
Keyboard	• The "#" can be used to go to the engineering interface, see
	the details in "6.6.1 Engineering Interface."
Backspace	Delete the entered content.
Call	Tap to call residents.
Property	Tap to call the management center.

# 6.2 Call Function

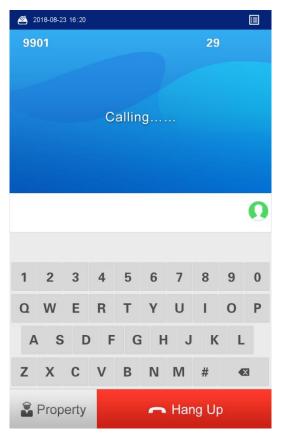
# 6.2.1 Calling VTH

<u>Step 1</u> Enter the room number of the VTH on the VTO.

Step 2 Tap Call.

The "Calling now, please wait a moment" voice notice comes up, and then the calling request lasts for 30 s. See Figure 6-2.

Figure 6-2 Calling VTH



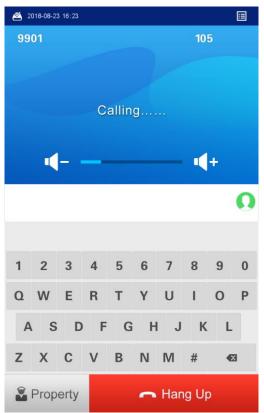
<u>Step 3</u> The call screen is displayed on the VTH. See Figure 6-3. Figure 6-3 Call screen



on the VTH to answer the call.

The VTO is in the phone call state. See Figure 6-4.

Figure 6-4 Phone call state



### 6.2.2 Calling Property (management center)

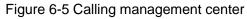
<u>Step 1</u> Tap **Property** on the VTO; or enter the number of the management center, and then tap **Call**.

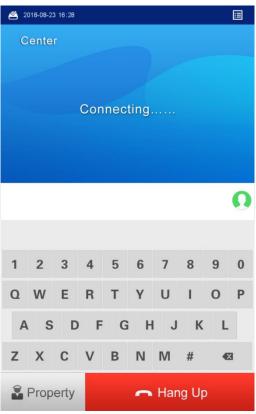
The "Calling now, please wait a moment" voice notice comes up, and then the calling request lasts for 30 s. See Figure 6-5.

Ш

Step<u>4</u> Tap

The number of the management center is 8888888 by default, and you can select **System Config > Local Config > Local Config** in the Web interface to change it. See the details in "7.3.1 Local Config."

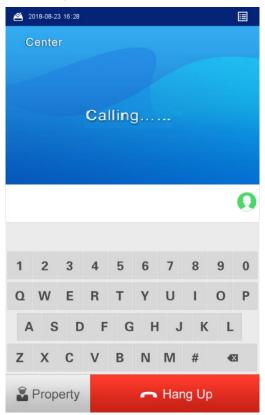




<u>Step 2</u> The management center answers the call.

The VTO is in the phone call state. See Figure 6-6.

Figure 6-6 Phone call state



# 6.3 Unlocking Method

# 6.3.1 Face Unlock

### **On Sleeping Screen**

When people approaching, the screen lights up, and then starts face recognition.

If the recognition passes, the Calibration between the states and the "The door is unlocked" voice notice comes

up; If the "**failed to scan**" notice displays after 10 s, the unlocking failed, and you need to check if the face data was added to the VTO.

#### In Main Interface

#### Step 1 Tap Face Recognition.

<u>Step 2</u> Come close and face to the camera.

The VTO starts face recognition. See Figure 6-7.

- If the recognition passes, the displays and the "The door is unlocked" voice notice comes up.
- If the "failed to scan" notice displays after 10 s, the unlocking failed, and you need to check if the face data was added.

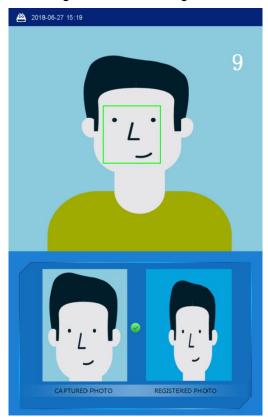


Figure 6-7 Face recognition

### 6.3.2 Fingerprint Unlock

Press the fingerprint sensor on the VTO with your finger, and if the recognition passes, the **Door opened** notice displays, and the "The door is unlocked" voice notice comes up; if the "Unregistered fingerprint" voice notice comes up, you need to add the fingerprint. For the details, see "6.4.2 Fingerprint Registration."

### 6.3.3 Password Unlock

Enter "#+your password+#" on the VTO, and if the recognition passes, the "**Door opened**" notice displays, and the "The door is unlocked" voice notice comes up; If the "**Wrong password**" notice is displayed, you need to check the password. For the details, see "7.3.2 A&C Manager."

### 6.3.4 Access Card Unlock

Swipe the authorized access card on the VTO, and if the recognition passes, the "**Door opened**" notice displays, and the "The door is unlocked" voice notice comes up; if the "**Card Error**" notice is displayed, and the beep sound comes up, you need to check the whether the access card is authorized. For the details, see "6.4.3 Issuing Card."

### 6.3.5 VTH Unlock

VTH unlock is available in the following conditions:

- VTO is calling VTH
- VTO and VTH are making phone call
- VTH is monitoring the area that VTO covers.

Tap the Unlock button on the VTH. The "**Door opened**" notice displays on the VTO, and the "The door is unlocked" voice notice comes up.

### 6.3.6 Management Center Unlock

Management center unlock is available in the following conditions:

- When VTO is calling management center,
- VTO and management center are making phone call,
- Management center is monitoring the area that VTO covers.

Click the Unlock button on the management center interface. The "**Door opened**" notice displays on the VTO, and the "The door is unlocked" voice notice comes up.

# 6.4 Registration



Only when VTO device is configured as SIP server, then the VTO users can register face and fingerprint on the VTO.

### 6.4.1 Face Registration

### 6.4.1.1 Face Registration by VTO Users

The VTO users can add new face data to the VTO with the authorized access card. <u>Step 1</u> In the main interface, tap **Owner Registration**.

The Swipe authorized card notice is displayed. See Figure 6-8.

Figure 6-8 Swipe authorized card



Step 2 Swipe the authorized card.

The registration interface is displayed. See Figure 6-9.

Figure 6-9 Registration



Step 3 Select Face > Add face.

The face recognition interface is displayed.

<u>Step 4</u> The VTO starts face recognition. See Figure 6-10. To restart the registration, tap **Cancel**.

Figure 6-10 Face recognition



<u>Step 5</u> After the registration finished, tap **Confirm**.

The information registration interface is displayed. See Figure 6-11.

	igu		, I		OII	nau		icg	1311	alio	
201 🖄	8-08-2	23 16:4	8								<b>f</b>
		Room N	10.	9901							
		Room		5501							
										1	
		Name:									
	1	2	3	4	5	6	7	8	9	0	
	۵	W	Е	R	т	γ	U	Т	0	Р	
	1	4 S	5 1	DF	: (	3 F	1.	JK	( 1		
		z		С						_	
									Car		
									Gar	icei	
					0	v					
					U	K					
					-						

<u>Step 6</u> Enter the room number and name for the newly added face.

You can add 50 faces at most under one room number.

Step 7 Tap OK to save.

The face data list of this room number is displayed.

Tap ڬ to exit.

#### 6.4.1.2 Face Registration by Admin People

- <u>Step 1</u> In the main interface, enter #VTO password#. The **IP Setting** interface is displayed.
- <u>Step 2</u> Select **User Registration > Face > Add face**. The face recognition interface is displayed.
- <u>Step 3</u> The VTO starts face recognition. See Figure 6-12. To restart the registration, tap **Cancel**.

2018-06-27 15:20

P Setting
Parameter Setting
User Registration
Info

Figure 6-12 Face recognition

<u>Step 4</u> After the registration finished, tap **Confirm**.

The information registration interface is displayed. See Figure 6-13.

201	8-08-	23 16:4	8							
		_								1
		Room	No.:	9901						
		Name:								
										_
	1	2	3	4						
	٥	W	Е	R	Т	γ	U	Т	0	Ρ
		A S	S I	DF	- (	G H	Η.	H	(	L
	+	z	Х	С	V	В	Ν	М		×
				_					Ca	ncel
					0	κ				
					-	n				

Figure 6-13 Information registration

<u>Step 5</u> Enter the room number and name for the newly added face.

Step 6You can add 50 faces at most under one room number.Tap OK to save.Tap to exit.

# 6.4.2 Fingerprint Registration

### 6.4.2.1 Fingerprint Registration by VTO Users

The VTO users can add new fingerprint data to the VTO with the authorized access card. <u>Step 1</u> In the main interface, tap **Owner Registration**.

The Swipe authorized card notice is displayed. See Figure 6-14.

righte o 14 Ompe authorized o	ara
▲ 2018-08-23 16:41	<b>f</b>
Prompt Swipe authorized card	
Return Cancel	

Figure 6-14 Swipe authorized card

<u>Step 2</u> Swipe the authorized card. The registration interface is displayed. See Figure 6-15.

Figure 6-15 Registration



#### <u>Step 3</u> Select **Fingerprint > Add Fingerprint**.

The fingerprint recognition interface is displayed. See Figure 6-16. Figure 6-16 Fingerprint recognition



<u>Step 4</u> Tap the fingerprint sensor as instructed. After the registration finished, the information registration interface is displayed. See Figure 6-17. Figure 6-17 Information registration

Room No:       9901         Name:	8-08-23 16:5	52						
Name:       1       2       3       4       5       6       7       8       9       0         Q       W       E       R       T       Y       U       I       O       P         A       S       D       F       G       H       J       K       L         Image: Total content of the second c								
Name:       1       2       3       4       5       6       7       8       9       0         Q       W       E       R       T       Y       U       I       O       P         A       S       D       F       G       H       J       K       L         Image: Total content of the second c								
Name:       1       2       3       4       5       6       7       8       9       0         Q       W       E       R       T       Y       U       I       O       P         A       S       D       F       G       H       J       K       L         Image: Total content of the second c								
Name:       1       2       3       4       5       6       7       8       9       0         Q       W       E       R       T       Y       U       I       O       P         A       S       D       F       G       H       J       K       L         Image: Total content of the second c								
1       2       3       4       5       6       7       8       9       0         Q       W       E       R       T       Y       U       I       O       P         A       S       D       F       G       H       J       K       L         ↑       Z       X       C       V       B       N       M       €<	Room	No.: 9901						
1       2       3       4       5       6       7       8       9       0         Q       W       E       R       T       Y       U       I       O       P         A       S       D       F       G       H       J       K       L         ↑       Z       X       C       V       B       N       M       €<								
Q W E R T Y U I O P A S D F G H J K L ↑ Z X C V B N M € Cance	Name:	2						
Q W E R T Y U I O P A S D F G H J K L ↑ Z X C V B N M €3 Cance								
Q W E R T Y U I O P A S D F G H J K L ↑ Z X C V B N M €3 Cance	1 2	3 4	5	6	7	8	9	0
A S D F G H J K L ↑ Z X C V B N M €3 Cance								
★ Z X C V B N M Cance								-
ےے Cance			FC	3 ł	1.		< I	-
	<b>†</b> Z	ХС	V	В	Ν	Μ	•	×
		L					Car	ncel
			0	v				
OK			0	n				

<u>Step 5</u> Enter the room number and name for the newly added fingerprint.

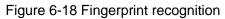
You can add 7 fingerprints at most under one room number.

Step 6 Tap OK to save.

Tap ڬ to exit.

### 6.4.2.2 Fingerprint Registration by Admin People

- <u>Step 1</u> In the main interface, enter #VTO password#. The **IP Setting** interface is displayed.
- <u>Step 2</u> Select User Registration > Fingerprint > Add Fingerprint. The fingerprint recognition interface is displayed. See Figure 6-18.





<u>Step 3</u> Press the fingerprint sensor as instructed.

After the registration finished, the information registration interface is displayed. See Figure 6-19.

#### Figure 6-19 Information registration

<b>2</b> 01	🛎 2018-08-23 17:02 🏫									<b>f</b>	
IP Se	tting	Ρ	arame	ter Se	etting	User	Regis	tratio	n	In	fo
	F	Room	No.:								
	1	Name:									
	1	2	3	4	5	6	7	8	9	0	
	٥	W	Е	R	Т	γ	U	Т	0	Ρ	
	A				. 0				( L	•	
	1	Z	Х	С	V	В	Ν	M	_	×	
									Car	ncel	
					0	Κ					

<u>Step 4</u> Enter the room number and name for the newly added fingerprint.

 $\square$ 

You can add 7 fingerprints at most under one room number.

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

Tap ڬ to exit.

### 6.4.3 Issuing Card

This function is only for admin people or engineer.

### 6.4.3.1 Issuing Card by Password

- <u>Step 1</u> In the main interface, enter #VTO password#. The **IP Setting** interface is displayed.
- <u>Step 2</u> Select User Registration > Card > Password.
  - The **Input password** interface is displayed. See Figure 6-20.

Figure 6-20 Input password

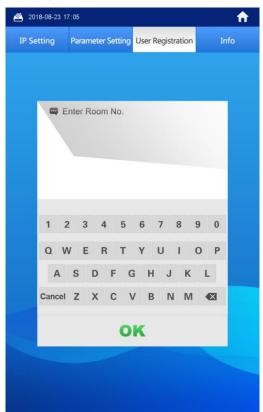
2018-08-23	17:05				1
IP Setting	Parameter	Setting U	ser Regist	tration	Info
	Input passw	vord			
	1	2		2	
				3	_
	4	5		6	
	7	8		9	
Ca	incel	0		×	
		OK	ę,		

<u>Step 3</u> Enter the card issuing password, and then tap **OK**.

The **Enter Room No.** interface is displayed. See Figure 6-21.

The card issuing password is 002236 by default, and you can change it in **System Config > Local Config > Local Config** in the Web interface. See the details in "7.3.2 A&C Manager."

Figure 6-21 Enter room number



Step 4Enter the room number, and then tap OK.The Swipe authorized card notice is displayed.Image: Content of the second sec

The room number is what you configured on the VTH.

- Step 5Swipe the access card you need to authorize.The succeeded notice is displayed, and the card issuing succeeded.You can swipe new cards repeatedly to authorize more cards.
- Step 6 Tap Cancel to finish.

Tap **D** repeatedly to exit.

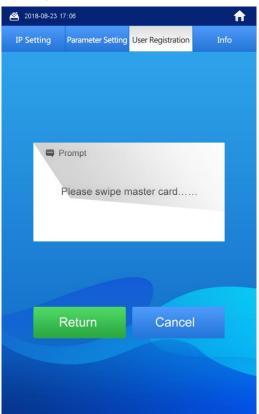
### 6.4.3.2 Issuing Card by Master Card



- Issuing card by master card is only available on the VTO.
- Before issuing card by master card, make sure the master card is available. If not, register an access card by password on the VTO, and then set it to be the master card in System Config > Device Manager > 8001-Indoor Station Manager. See the details in "7.5.3.1 Setting Master Card."
- <u>Step 1</u> In the main interface, enter #VTO password#. The **IP Setting** interface is displayed.
- Step 2 Select User Registration > Card >Master card.

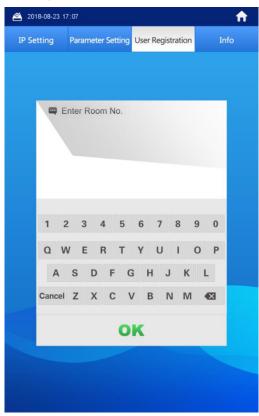
The Swipe master card notice is displayed. See Figure 6-22.

Figure 6-22 Swipe master card.



<u>Step 3</u> Swipe the master card.

The **Enter Room No.** interface is displayed. See Figure 6-23. Figure 6-23 Enter room number



<u>Step 4</u> Enter the room number, and then tap **OK**. The **Swipe authorized card** notice is displayed.  $\square$ 

The room number is what you planned for the VTH.

- <u>Step 5</u> Swipe the access card you need to authorize. The succeeded notice is displayed, and the card issuing succeeded. You can swipe new cards repeatedly to authorize more cards.
- Step 6 Tap Cancel to finish.

Tap **D** repeatedly to exit.

# **6.5 Viewing Function**

### 6.5.1 Viewing Face Data

#### 6.5.1.1 Viewing by VTO Users

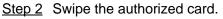
The VTO users can view and maintain the face data under their room number with the authorized card.

<u>Step 1</u> In the main interface, tap **Owner Registration**.

The Swipe authorized card notice is displayed. See Figure 6-24.

Figure 6-24 Swipe authorized card

Ç .	
A 2018-08-23 17:08	<b>•</b>
Prompt Swipe authorized card	
Return Cancel	



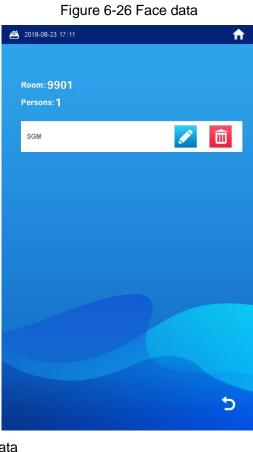
The registration interface is displayed. See Figure 6-25.

Figure 6-25 Registration



#### <u>Step 3</u> Select Face > Face Query.

The face data are listed. See Figure 6-26.



• Editing face data



The **Do you want to register face again?** notice is displayed. If you need to register face again, tap **Yes**, then face to the scan box, and then add face data as instructed; if you do not need it, tap **No**.

- 2) Edit room number and name.If you did not register face again, you can only modify the name.
- 3) Tap **OK** to finish.
- Deleting face data

1) Tap 🧰

The Do you want to delete face info? notice is displayed.

- 2) Tap Yes.
- Exiting query interface

Tap **D** repeatedly to exit.

### 6.5.1.2 Viewing by Admin People

The admin people or engineer can view and maintain the face data under a certain room number.

<u>Step 1</u> In the main interface, enter #VTO password#.

The **IP Setting** interface is displayed.

<u>Step 2</u> Select **User Registration > Face > Face Query**.

The Enter Room No. interface is displayed. See Figure 6-27.

2018-08-23 17:20 A IP Setting Parameter Setting User Registration Enter Room No. 3 4 5 6 8 9 0 Ρ W Е R Т Y U 0 G Α S D F H L Cancel Z X C V B N M X OK

<u>Step 3</u> Enter the room number, and then tap **OK**. The face data of this room are listed. See Figure 6-28.

#### Figure 6-27 Enter room number

#### Figure 6-28 Face data



- Editing face data
- 1) Tap 🔼

The Do you want to register face again? notice is displayed.

2) Tap Yes.

The face recognition interface is displayed.

- Face to the scan box, and then add face data as instructed.
   After the registration is finished, the information editing interface is displayed.
- 4) Edit room number and name.
- 5) Tap OK to finish.
- Deleting face data
- 6) Tap 🛅.

The Do you want to delete face info? notice is displayed.

- 7) Tap **Yes**.
- Exiting query interface

Tap **D** repeatedly to exit.

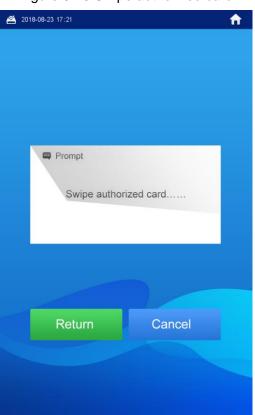
### 6.5.2 Viewing Fingerprint

#### 6.5.2.1 Viewing by VTO Users

The VTO users can view and maintain the fingerprint data under their room number with the authorized card.

<u>Step 1</u> In the main interface, tap **Owner Registration**.

#### The **Swipe authorized card** notice is displayed. See Figure 6-29. Figure 6-29 Swipe authorized card



<u>Step 2</u> Swipe the authorized card.

The registration interface is displayed. See Figure 6-30.



<u>Step 3</u> Select **Fingerprint > Fingerprint Query**. The fingerprint data are listed. See Figure 6-31.

#### Figure 6-31 Fingerprint data



- Editing fingerprint
- 1) Tap 🔼

The information editing interface is displayed.

- 2) Edit name.
- 3) Tap OK to finish.
- Deleting fingerprint
- 1) Tap 🛅.

The Do you want to delete fingerprint info? notice is displayed.

- 2) Tap Yes.
- Exiting query interface

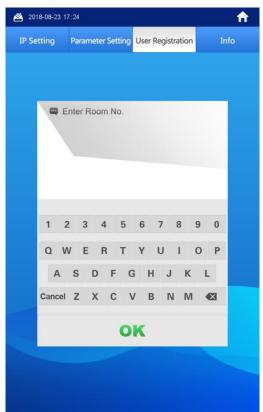
Tap repeatedly to exit.

### 6.5.2.2 Viewing by Admin People

The admin people can view and maintain the fingerprint data under a certain room number. <u>Step 1</u> In the main interface, enter #VTO password#.

- The **IP Setting** interface is displayed.
- <u>Step 2</u> Select User Registration > Fingerprint > Fingerprint Query. The Enter Room No. interface is displayed. See Figure 6-32.

Figure 6-32 Enter room number



<u>Step 3</u> Enter the room number, and then tap **OK**.

The fingerprint data of this room are listed. See Figure 6-33. Figure 6-33 Fingerprint data



<u>Step 4</u> Maintaining fingerprint

• Editing fingerprint



The information editing interface is displayed.

- 2) Edit name.
- 3) Tap **OK** to finish.
- Deleting fingerprint
- 1) Tap 🛅

The Do you want to delete fingerprint info? notice is displayed.

2) Tap Yes.

•

Exiting query interface

Tap **D** repeatedly to exit.

### 6.5.3 Viewing Card Information

You can view the card information on the VTO Web interface or on the server. For the viewing operation on the Web interface, see "7.5.3 Card Info"; for the operation on the server, see the user's manual of the server.

# 6.6 Configuring VTO Parameter

### 6.6.1 Engineering Interface



This function is only for admin people or engineer.

In the main interface, enter "#VTO password#", and then the engineering interface is displayed. See Figure 6-34.

Figure 6-34 Engineering interface

2018-08-23	17 :57		<b>f</b>
IP Setting	Parameter Setting	User Registration	Info
	IP:172.5.1	. 178	
	MSK : 255 . 255 . 0	0.0	
	GATE: 172 . 5 . 0	0.1	
	MAC :		
	Confirm	Cancel	

The VTO password is 888888 by default, and be sure to change the password in the Web interface after the first use. See the details in "7.3.2 A&C Manager."

# 6.6.2 Configuring the IP Address

You can configure the IP address, subnet mask, and default gateway of the VTO. <u>Step 1</u> In the main interface, enter "#VTO password#."

The IP Setting interface is displayed. See Figure 6-35.

Figure 6-35 IP setting

2018	-08-23 17:57			<b>f</b>
IP Set	ting Parameter Se	etting User Reg	gistration	Info
	IP: 172 . 5	. 1 . 178		
	MSK : 255 . 25	5.0.0		
	GATE: 172 . 5	. 0 . 1		
	MAC :	Sec. 201.2.1		
	Confirm		Cancel	

- <u>Step 2</u> Tap the input box of **IP**, **MSK**, and **Gate**. The keyboard is displayed.
- <u>Step 3</u> Tap  $\leftarrow$  to backspace, and then tap the numbers to input.
- Step 4 Tap **Confirm** to save. The VTO reboots.

### 6.6.3 Configuring Volume/Screensaver Time/Brightness

- <u>Step 1</u> In the main interface, enter #VTO password#. The **IP Setting** interface is displayed.
- <u>Step 2</u> Tap **Parameter Setting**. The **Parameter Setting** interface is displayed. See Figure 6-36.

Figure 6-36 Parameter setting

<u>Step 3</u> Tap + or - to add or reduce the value.

- The volume range is 0–100.
- The brightness range is 1–9.
- The **Screensaver Time** is the time that the VTO idles until the screensaver comes up, and the range is 30 s–300 s.
- The **Brightness Time** includes the **Screensaver Time** and the duration of the screensaver, and when the **Brightness Time** ends, the VTO screen is off. The **Brightness Time** range is 10 m–300 m.

### 6.7 Info

### 6.7.1 Viewing Device Information

This can be used by the technical support to do troubleshooting.

Step 1 In the main interface, enter "#VTO password#."

The **IP Setting** interface is displayed.

Step 2 Tap Info.

The Web Port, Main Version, and MCU Version are displayed. See Figure 6-37.

Figure 6-37 Info



# 6.7.2 Viewing Notices

In the main interface, tap III to view the text notice from the SIP server.

# **Web Interface**

# 7.1 Initializing VTO



- For first time login or after the VTO being reset, you need to initialize the Web interface.
- Make sure the PC is in the same network segment with the VTO.
- <u>Step 1</u> Enter the default IP address of the VTO in the address bar, and then press Enter.

The password setting interface is displayed. See Figure 7-1.

Figure 7-1 Password setting

Device		×
	1 Setting 2 Protect 3 OK	
	Username admin New Password Middle Strong	
	Confirm Use a password that has 8 to 32 characters, it can be a combination of letters, numbers and symbols (please do not use special symbols like 's "s ;s :s &)	

Step 2 Enter and confirm the password, and then click Next.

The Email setting interface is displayed. See Figure 7-2.

This password is to login the Web interface, and it should contain at least 8 digits and at least two types from number, letter, and symbol.

Figure 7-2 Email setting
Device
1 Setting 2 Protect 3 OK
<ul> <li>Email</li> <li>(To reset password, please input properly or update in time)</li> </ul>
Next

Step 3 Select the Email check box, and then enter your Email address.

This Email address can be used to reset the password, and it is recommended to finish this setting.

Step 4 Click Next.

The **Device Succeed** interface is displayed, and the initialization is finished. See Figure 7-3.

Figure 7-3 Device succeed

Device				×
	1 Setting	2 Protect	Зок	
	•	Device Succes	ed!	
		Ok		

Step 5 Click OK.

The login interface is displayed.

# 7.2 Login



Make sure the PC is in the same network segment with the VTO.

<u>Step 1</u> Enter the default IP address of the VTO in the address bar, and then press enter.

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

Figure 7-4 Login

IP VDP D	Door Station Web Server V1.0	
	4	
	9	Forgot Password
	Login	

Step 2 Enter the user name and the password, and then click Login.

- The default user name is admin.
- The password is what you configured during initialization.

# 7.3 System Config

### 7.3.1 Local Config

This section introduces how to configure fill light sensitivity, storage path, shout time, device type, reboot date, and center control number.

<u>Step 1</u> Select System Config > Local Config > Local Config.

The Local Config interface is displayed. See Figure 7-5.

#### Figure 7-5 Local config

System Config	Local Config	A&	C Manager	Talk Manager	Т
> Local Config					
> LAN Config	Sensitivity of fill light to	o open	60		
> Device Manager	Storage	e Point	FTP	•	
> Network Config	Shou	t Time	120		
> Video Set	Devic	е Туре	Unit Door Station	<b>_</b>	
> User Manager					
> IP Purview	Reboo	ot Date	Tuesday	•	
> IPC Information	Main Versio	on Info	2018-07-07 V1	.000.00000	
> Publish Information	Centre Control N	umber	888888		
> UPnP Config			Default	Refresh (	ОК
EingerPrint Manager					

<u>Step 2</u> Configure parameters, and for the detailed description, see Table 7-1.

Table 7-1 Local config parameter

Parameter	Description
Sensitivity of fill	The bigger the value is, the more sensitive the fill light will be.
light to open	

Parameter	Description		
Storage Point	<ul> <li>The storage path for the recorded videos and snapshots. You can select FTP or SD card.</li> <li>For the FTP configuration, see "7.6.2 FTP Config."</li> </ul>		
	<ul> <li>If you select SD card, make sure the SD card is inserted or the VTO supports SD card.</li> </ul>		
Shout Time	The max time for which the management center or the VTH can shout to the VTO.		
Device Type	Unit Door Station by default.		
Reboot Date	Configure the time at which the VTO auto reboots. The time is 2:00, Tuesday by default.		
Main Version Info	The version of the VTO system.		
Centre Control Number	The number of the management center, and it is 888888 by default.		

Step 3 Click OK to save.

### 7.3.2 A&C Manager

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

<u>Step 1</u> Select System Config > Local Config > A&C Manager.

The A&C Manager interface is displayed. See Figure 7-6.

	i iguio i	071001	lanagoi			
System Config	Local Config A&	C Manager	Talk Ma	nager	System Time	С
Local Config			-			
> LAN Config	Unlock Responding Interval	15				
> Device Manager	Unlock Period	5		]		
> Network Config	Door Sensor Check Time	30		Check D	oor Sensor Signal Befor	e Lock
> Video Set	Open Door Command	123		1		
> User Manager	·			]		
> IP Purview	Issue Card Password					
> IPC Information	Project Password					
> Publish Information	Lift Control Protocol	Local Protocol	-	Lift Cont	trol Enable	
> UPnP Config	Baud Rate	9600	-	1		
> FingerPrint Manager	New Unlock Password				n Password Enable	
> Face Management					II Fassword Enable	
Info Search	New Unlock Password			]		
Status Statistics	Confirm					
Logout	New Menace Password			Menace	Password Enable	
	New Menace Password			]		
	Confirm					
	Auto Snapshot	⊙ Turn on	Turn off			
		Default	Refresh	ОК		

Figure 7-6 A&C manager

<u>Step 2</u> Configure A&C manager parameters. See Table 7-2 for the details.

Table 7-2 A&C manager parameter

Parameter	Description
Unlock Responding	The time interval to unlock again after the previous unlock, and the
Interval	unit is second.

Parameter	Description				
Unlock Period	The time amount for which the lock stays open after unlock, and				
UTILOCK FEIIOU	the unit is second.				
Check Door Sensor	Select the Check Door Sensor Signal Before Lock check box to				
Signal Before Lock	enable alarm function, and If the unlock time exceeds the Door				
Door Sensor Check	Sensor Check Time, the door sensor alarm is triggered, and the				
Time	alarm will be sent to the management center.				
Open Door	You can connect a third-party phone such as SIP phone to your				
Command	VTO, and use the command to open the door remotely.				
	This password can be used to issue new card.				
Issue Card Password					
Issue Card Password	<ul> <li>This password is only for admin people or engineer.</li> </ul>				
	It is 002236 by default.				
	It can be used to go to the engineering interface, and it is 888888				
	by default.				
Project Password					
	Project password is only for admin people or engineers.				
Lift Control Protocol	Select Lift Control Protocol and Lift Control Enable to enable				
Lift Control Enable	the lift control function, and then you can configure the floors that				
	lift users can go to.				
Baud Rate	Enter the baud rate of the third party 485 device that you need.				
New Unlock					
Password					
New Unlock	Select <b>Common Password Enable</b> , then configure unlock				
Password Confirm	password, and then all the residents in this unit can open the door with this password.				
Common Password					
Enable					
New Menace					
Password	Select Menace Password Enable to configure duress password				
New Menace	function.				
Password Confirm	Once the duress password is used, the alarm is triggered, and it				
Menace Password	will be sent to the management center.				
Enable					
Auto Snapshot	Select <b>Turn on</b> , and then the system takes 2 snapshots when				
	unlocking, and then upload to the FTP.				

Step 3 Click OK to save.

### 7.3.3 Talk Manager



Upload the snapshots and the video and audio messages to the FTP. Make sure the FTP is properly configured.

This section introduces how to configure auto snapshot and how to leave messages during phone call.

#### <u>Step 1</u> Select System Config > Local Config > Talk Manager.

The Talk Manager interface is displayed. See Figure 7-7.

Figure 7-7 Talk manager

System Config	Local Config	A&C Manager	Talk Manager
> Local Config			
> LAN Config	Auto Sn	apshot 💿 Turn on 🤇	) Turn off
> Device Manager	Leave Message	Upload 💿 Turn on 🛛 🔇	) Turn off
> Network Config			
> Video Set		Default	Refresh OK

<u>Step 2</u> Configure Talk manager parameters. See Table 7-3 for the details.

Parameter	Description
	Select <b>Turn on</b> , and then the system takes 2 snapshots when calling,
Auto Snapshot	and 1 snapshot after the call is answered. The snapshots will be upload
	to the FTP.
	<ul> <li>If the SD card is not available or supported, you can enable this</li> </ul>
	function and configure FTP to make it work.
Leave Message	• If the SD card is available, the messages will be saved in the SD
Upload	card by default, and this option is invalid.
Opidad	Select Enable, and then the meaasges from visitors will be uploaded to
	the FTP server. If the call from the VTO to the VTH is not answered, the
	"No one answers" voice notice comes up. Tap 1 to leave a video or audio
	message. The message will be upload to the FTP, and the VTO users
	can view the messages on the <b>VTH</b> .

Step 3 Click **OK** to save.

## 7.3.4 System Time

This section introduces how to configure the date format, time format, and the NTP server.

<u>Step 1</u> Select System Config > Local Config > System Time.

The System Time interface is displayed. See Figure 7-8.

Figure 7-8 System time

🔻 System Config	Local Config	A&C Manager	Talk Manager	System Time
	Local Coning	/ do manager	Tuik Manager	oystem mile
> Local Config	Data D	ormat Year-Month-Da		
LAN Config	Dater	Format Year-Month-Da	y 🔽	
> Device Manager	Time F	ormat 24-Hour Standa	ard 💌	
> Network Config	System	n Time 2018 - 08 -	15 17 : 27 : 30	Sync PC
> Video Set			L	
> User Manager		NTP Config		
> IP Purview	NTD	Server 200.160.0.8		
> IPC Information	INTE S	200.160.0.8		
> Publish Information		Zone GMT+00:00	•	
> UPnP Config		Port 123	(1~65535)	)
> FingerPrint Manager	Update F	Period 5	Minute (1~	-30)
<ul> <li>Face Management</li> </ul>		Default	Refresh OK	
Info Search		Delaut		

Step 2	Configure	System	time	parameters.	See	Table 7	7-4 for the details.
		- ,					

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
Time format	24-Hour.
	Configure the VTO system date, time and time zone, and then click
	ОК.
System Time	$\Lambda$
	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.
NTP Config	Select the check box to enable NTP timing.
NTP Server	Enter the domain name and the IP address of the NTP server.
Zone	The time zone of the current area.
Port	The port number of the NTP server.
Lindote Deried	The time interval that the VTO syncs time with the NTP server, and it is
Update Period	30 min at most.

Table 7	-4 System	n time p	arameter
	- Oyoton	i unito p	anamotor

Step 3 Click OK to save.

## 7.3.5 Config Manager

This section introduces how to import or export the system config, network config, and video config, and how to reset the VTO.

Select **System Config > Local Config > Config Manager**, and then the **Config Manager** interface is displayed. See Figure 7-9.

Figure 7-9 Config manager

System Config	Local Config	A&C Manager	Talk Manager	System Time	Config Manager
> Local Config					
> LAN Config	Export Co	nfig Import Config	Default All		

Export Config

Click **Export Config** to export the system config, network config, and video config to local storage, and the exported config can be used to restore config or import into other VTO.

Import Config

Click **Import Config** to import the local config files into the VTO; you can restore or sync data with this function.

Default All

Click **Default All**, and then confirm. The VTO will reboot, and all the parameters except IP address will be reset to the factory settings.

#### 7.3.6 Wiegand

You can configure the parameters of Wiegand sensors.

#### Step 1 Select System Config > Local Config > Wiegand

The Wiegand interface is displayed. See Figure 7-10.

#### Figure 7-10 Wiegand

-	System Config	Local Config	A&C Manager	Talk Manager	System Time	Config Manager	Wiegand
	> Local Config			-			
	LAN Config		Mode 💿 Input	Output			
	> Device Manager	Onpu	t Type Card	•			
	<ul> <li>Network Config</li> </ul>	Trans	Mode 34bit Trans	•			
	> Video Set	Pulse Ste	ep(µs) 1000				
	> User Manager						
	> IP Purview	Pulse Wid	th(µs) 200				
	<ul> <li>IPC Information</li> </ul>		Default	Refresh OK			

<u>Step 2</u> Configure Wiegand parameters. See Table 7-5 for the details.

Table 7-5 Wiegand parameter

Parameter	Description
Mode	Supports single Wiegand input or output.
Output Type	ID or Card
TransMode	Select transmitting speed from 26 bit, 34 bit, and 64 bit. The bigger the
	value is, the faster the transmission will be.
Pulse Step (µs)	It is 1000 by default.
Pulse Width (µs)	It is 200 by default.
Stop 2. Click OK to a	

Step 3 Click OK to save.

# 7.4 LAN Config

## 7.4.1 LAN Config

This section introduces how to configure server type and group call.

Step 1 Select System Config > LAN Config > LAN Config.

The LAN Config interface is displayed. See Figure 7-11.

Figure 7-11 LAN config

System Config	LAN Config Res	idence Config
> Local Config		
> LAN Config	No.	8001
> Device Manager		
> Network Config	Support Group	Turn on     O Turn off
> Video Set	Server Type	VTO
> User Manager		
> IP Purview		Warning:The device needs reboot after modifing the config above.
> IPC Information		
> Publish Information		Default Refresh OK

Step 2 Configure parameters. See Table 7-6 for the details.

Table 7-6 LAN config parameter

Parameter	Description	
No. The number of the VTO. If the VTO you are visiting works as SIP server, the <b>No.</b> is not editable the configuration of SIP server, see "7.6.3 SIP Server Config."		
Support Group	Select <b>Turn on</b> to enable group call, and when the VTO is calling a VTH all the extension VTH would receive the call.	
Server Type	<ul> <li>Select the SIP server type.</li> <li>If VTO works as SIP server, select VTO.</li> <li>If third party server works as SIP server, select the type you need.</li> </ul>	

<u>Step 3</u> Click **OK** to save.

## 7.4.2 Residence Config

This section introduces how to configure the beginning building and unit number, unit layer amount, and room amount in one layer.

 $\square$ 

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

<u>Step 1</u> Select System Config > LAN Config > Residence Config.

The **Residence Config** interface is displayed. See Figure 7-12.

#### Figure 7-12 Residence config

🔻 System Config	LAN Config	Residence Config
> Local Config		
> LAN Config	Begin Buildi	ding No. 0
> Device Manager	Begin U	Unit No. 0
> Network Config	Unit Layer A	Amount 5
> Video Set	Room Amount in One	ne Laver 4
> User Manager		
> IP Purview	First room of	of floor 1 101
> IPC Information	First room of	of floor 2 201
> Publish Information		Creat Room No.
> UPnP Config		
> FingerPrint Manager		remind:auto to build rooms need much time!
> Face Management		Default Refresh OK

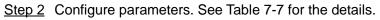


Table 7-7 Residence config parameter	er
--------------------------------------	----

Parameter	Description
Begin Building No.	Configure the first building number.
Begin Unit No.	Configure the first unit number.
Unit Layer Amount	Configure the layer amount in one unit.
Room Amount in	Configure the room amount in and lover
One Layer	Configure the room amount in one layer.
First room of floor 1	Configure the first room number in floor 1 for starter.
First room of floor 2	Configure the first room number in floor 2 for starter.
Creat Room No	Select Creat Room No., and then the VTO can create numbers in
Creat Room No.	batch with the input information.

Step 3 Click OK to save.

# 7.5 Device Manager

# $\triangle$

This function is displayed only when the VTO you are visiting works as SIP server.

## 7.5.1 Outdoor Station Manager

This section introduces how to manage other VTO devices in the network.

Select System Config > Device Manager > Outdoor Station Manager, and then the Outdoor Station Manager interface is displayed. See Figure 7-13.

Figure 7-13 Outdoor station manager

🐨 System Config	Outdoor Station Manager	8001-Indoor Station Manager	Config Manager	VTS Manager				
> Local Config								
> LAN Config	Check	No.	Build	ing No.	Building Unit No.	IP Address	Modify	Delete
> Device Manager		8001				172.12.20.19	2	•
> Network Config	Add Clear						M 4 1/	1 🕨 🔰 Go to 🔤
> Video Set								

#### 7.5.1.1 Adding VTO

Step 1 Click Add.

The Add interface is displayed. See Figure 7-14.

Figure 7-14 Add VTO
---------------------

Add		×
No.		
Register Password	•••••	
Building No.		
Building Unit No.		
IP Address	127.0.0.1	
Username		
Password		
	OK Cancel	

Step 2 Configure VTO parameters. See Table 7-8 for the details.

Table 7-8 VTO parameters			
Parameter	Description		
No.	The number of the VTO.		
Register Password	Leave to the default.		
	Configure the number of the building that the VTO is being		
Building No.	installed. This option is editable only when third party server		
	works as SIP server and the Support Building is enabled.		
	Configure the number of the building unit that the VTO is		
Building Unit No.	being installed. This option is editable only when third party		
	server works as SIP server and the Support Unit is enabled.		
IP Address	The IP address of the VTO		
Username	The username and password for the Web interface of the		
Password	VTO.		

<u>Step 3</u> Click **OK** to finish configuration.

The VTO information is listed.

#### 7.5.1.2 Modifying VTO

 $\square$ 

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

Step 1 Click 🥌 .

The **Modify** interface is displayed.

- Step 2 Modify the register password, username, and password of the VTO. See Table 7-8.
- Step 3 Click **OK** to finish.

#### 7.5.1.3 Deleting VTO

 $\square$ 

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

Click Clear to delete VTO one by one; click Clear to delete all the VTO.

#### 7.5.2 8001-Indoor Station Manager

#### $\square$

If there are master VTH and extension VTH being used, you need to add them all.

This section introduces how to manage other VTO devices and the access cards in the network.

Select System Config > Device Manager > 8001-Indoor Station Manager, and then the 8001-Indoor Station Manager interface is displayed. See Figure 7-15.

Figure 7-15 8001-indoor station manager

System Config	Outdoor Station Manager	8001-Indoor Stat	on Manager	Config Manager	VTS Manager			
> Local Config		-	-					
> LAN Config	FamilyName							
> Device Manager				#	9901	public	2	•
Network Config	Add Clear							🖬 🛋 1 / 1 🕨 🍽 Go to

#### 7.5.2.1 Adding VTH

Step 1 Click Add.

The **Add** interface is displayed. See Figure 7-16.

Figure	7-16	Add	V	ΤН
inguio	1 10	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•	

Add	Ε	3
FamilyName		
FirstName		
Nick Name		
VTH Short No.		
Register Password	•••••	
Register Type	public 💌	
	OK Cancel	

Step 2 Configure VTH parameters. See Table 7-9 for the details.

Table 7-9 VTH parameters

Parameter	Description
FamilyName	Configure the name and nickname of the V/TLL year in order to
FirstName	<ul> <li>Configure the name and nickname of the VTH user, in order to</li> <li>differentiate.</li> </ul>
Nick Name	
VTH Short No.	Configure the room number of the VTH.
	• The VTH short number should be the same as the room

Parameter	Description
	number you configured on the VTH.
	• If there are master VTH and extension VTH being used, the
	short number of the master VTH should be "room
	number#0", and the extension VTH to be #1, #2, #3 and so
	on.
Register Password	
Register Type	Leave to the default.

<u>Step 3</u> Click **OK** to finish configuration.

#### 7.5.2.2 Modifying VTH

Step 1 Click

The Modify interface is displayed. See Figure 7-17.

Fi	gure 7-17 Modifying V	TH
Modify		×
FamilyName		
FirstName		
Nick Name		
Register Password	•••••	
Register Type	public 💌	
	OK Cancel	

<u>Step 2</u> Modify all the parameters of the VTH. See Table 7-9.

Step 3 Click **OK** to finish.

#### 7.5.2.3 Deleting VTH

Click 🤤 to delete VTH one by one; click **Clear** to delete all the VTH.

## 7.5.3 Card Info

This section introduces how to define master card, report loss, cancel report, and modify card user.



Before using this function, make sure the VTO already has authorized card, otherwise, there will be no card. For the card registration, see "6.4.3 Issuing Card."

Select System Config > Device Manager > 8001-Indoor Station Manager, and then click . The Card Info interface is displayed. See Figure 7-18.

Figure 7-18 Card info

Card Info						X
Card ID	Card Number	Username	Main Card	ReportLoss	Modify	Delete
9901	94BE4604				2	•
9901	4568944B			2	2	•

#### 7.5.3.1 Setting Master Card

Select the **Main Card** check box of a certain card, and then the card is configured as the master card. The master card can be used to authorize other cards.

#### 7.5.3.2 Report Loss

Click 🗟 to report loss for a certain card. The icon changes to 🗟, and the card is not valid any more. Click 📓 to cancel the report, and the card is valid again.

#### 7.5.3.3 Modifying Card

Step 1	Click	1
Step 1	CIICK	

The Modify interface is displayed. See Figure 7-19.

Figure 7-19 Modifying card username

Modify			×
Username			
	ОК	Cancel	
	-		

<u>Step 2</u> Modify the card username <u>Step 3</u> Click **OK**.

#### 7.5.3.4 Deleting Card

Click 🤤 to delete a certain card, and the card is not valid any more.

## 7.5.4 Config Manager

This section introduces how to import or export the device information, password, access cards, and login information in **Device Manager**.

Select System Config > Device Manager > Config Manager, and then the Config Manager interface is displayed. See Figure 7-20.

Figure 7-20 Config manager

System Config	Outdoor Station Manager	8001-Indoor Station Manager	Config Manager
> Local Config			
> LAN Config	Export	Config Import Config	
> Device Manager			

#### Export Config

Click **Export Config** to export the config files to local storage, and the exported config can be used to restore config or import into other VTO.

Step 1 Click Export Config.

The **Export** interface is displayed. See Figure 7-21.

Figure 7-21 Export config

Export		٥	3
Export T	Type Device Info	▼	
	ОК	Cancel	

- <u>Step 2</u> Select the **Type** you need, and then click **OK**.
- <u>Step 3</u> Enter the password, and then click **OK**.
- <u>Step 4</u> The PC downloads the file automatically.

#### Import Config

Import the local config files into a VTO to apply the config.

Step 1 Click Import Config.

The File Upload interface is displayed.

Step 2 Click File, then select the .log file you need, and then click Upload.

# 7.6 Network Config

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

## 7.6.1 TCP/IP

This section introduces how to configure the IP address of the VTO.

Step 1 Select System Config > Network Config > TCP/IP.

The TCP/IP interface is displayed. See Figure 7-22.

Figure 7-22 TCP/IP

🔻 System Config	TCP/IP	FTP Config	SIP Server Config
> Local Config			
> LAN Config	IP Add	iress	
> Device Manager	Subnet	Mask	
Network Config	Default Gat	0.00/20/	
> Video Set	Delauli Gal	eway	
> User Manager	MAC Add	Iress	88:f8
> IP Purview		SSH 🔘 Turn on 👘	Turn off
> IPC Information		Default	Refresh OK

- <u>Step 2</u> Enter the IP address, subnet mask, and default gateway you planned, and then click **OK**.
- <u>Step 3</u> You can enable SSH as needed.

If the SSH is enabled, you can login the VTH through SSH protocol with debugging terminal, and do operations and debugging.

Step 4 Click OK to save.

## 7.6.2 FTP Config

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



You need to plan the FTP server in advance.

Step 1 Select System Config > Network Config > FTP Config.

The FTP Config interface is displayed. See Figure 7-23.

#### Figure 7-23 FTP Config

🔻 System Config	TCP/IP	FTP Config	SIP Server Config	
> Local Config		-		
> LAN Config	IP A	ddress		
> Device Manager		Port		
> Network Config	Use	rname		
> Video Set	Pas	ssword		
> User Manager				
> IP Purview		Default	Refresh OK	
> IPC Information		Delault	I CILESII OK	

Step 2 Configure parameters. See Table 7-10 for the details.

Parameter	Description	
IP Address	The IP address of the FTP server.	
Port	It is 21 by default.	
Username	The upperhand personner of the ETD perior	
Password	The username and password of the FTP server.	

Step 3 Click OK to save.

## 7.6.3 SIP Server Config

Select System Config > Network Config > SIP Server Config, and then the SIP Server Config interface is displayed. See Figure 7-24.

Figure 7-24 SIP server configuration

🔻 System Config	TCP/IP F	TP Config	SIP Server (	Config	Port Config
> Local Config				_	
> LAN Config	IP Address				
> Device Manager	Port	5060	(*	1~65535)	
Network Config	Username	8001			
> Video Set	Password	•••••			
> User Manager	010 Damaia				
> IP Purview	SIP Domain	VDP			
> IPC Information	Login UserName				
> Publish Information	Login PWD				
> UPnP Config		Sip Server Ena	ble		
> FingerPrint Manager					
> Face Management		Warning:The devic	ce needs reboot a	after modifing i	the SIP server enable.
▶ Info Search		Default	Refresh	OK	

- If the VTO you are visiting works as SIP server
   Select SIP Server Enable, and then click OK. The VTO reboots, and then the login interface is displayed.
- If other VTO works as SIP server

<u>Step 1</u> Configure parameters. See Table 7-11 for the details.

Parameter	Description	
IP Address	The IP address of the VTO that works as SIP server.	
Port	It is 5060 by default.	
Username	Leave to the default.	
Password		
SIP Domain The <b>SIP Domain</b> is <b>VDP</b> .		
Username		
Password	The username and password of the SIP server.	

Table 7-11 SIP server config (1)

Step 2 Click OK to save.

- The VTO reboots, and then the login interface is displayed.
- If third party server works as SIP server

Step 1 Configure parameters. See Table 7-12 for the details.

Table 7-12 SIP server config (2)

	5()	
Parameter	Description	
IP Address	The IP address of the server that works as SIP server.	
Port	5080	
Username	Leave to the default.	
Password		
SIP Domain	Leave it blank or keep the default	
Username	The username and password of the SIP server.	

Parameter	Description
Password	

Step 2 Click **OK** to save.

The VTO reboots, and then the login interface is displayed.

## 7.6.4 Port Config

Configure the port that is used to login the VTO Web interface.

#### <u>Step 1</u> Select System Config > Network Config > Port Config.

The Port Config interface is displayed. See Figure 7-25.

#### Figure 7-25 Port Config

🔻 System Config	TCP/IP	F	TP Config	SIP Server	r Config	Port Config
> Local Config				_	1	
> LAN Config	WE	B Port	80		(80, 1025~	65535)
> Device Manager	SI	P Port	5060		(1~65535)	
> Network Config	RT	P Port	15000		(15000~20	0000)
> Video Set	Sip Route	r Add.	Setting	Enable		
> User Manager						
> IP Purview			Warning:The devic	e needs rebor	t after modit	fing the config above.
> IPC Information				Refresh	ок	ang are coming above.
> Publish Information			Default	Reliesh	OK	

#### Step 2 Web Port

It is 80 by default, if it is occupied, you can use numbers from 1025 to 65535.

Step 3 Click OK to save.

If the port is changed, enter "http://VTO IP address: web port" in the address bar of the Internet browser to login the Web interface of the corresponding VTO.

## 7.6.5 DDNS Config

Properly configure DDNS, and then you can always visit your VTO with a constant domain name no matter how much your VTO IP address changes.



- Before start, check whether your VTO supports the servers in Server Type, and then go to the DDNS website and register the username, password, and domain name.
- Finish register, then log in the DDNS website, and then you can view all the connected devices in your account.

<u>Step 1</u> Select System Config > Network Config > DDNS Config.

The DDNS Config interface is displayed. See Figure 7-26.

#### Figure 7-26 DDNS Config

System Config	TCP/IP	FTP Co	nfig	SIP Server (	Config	Port Config	DDNS Config
> Local Config			_		_		
> LAN Config		🗸 Ena	ble				
> Device Manager	Serve	r Type NO-IP	DDNS	•			
> Network Config	Server	Name dynu	odate.no-i	ip.com			
> Video Set	Serve	er Port 80			1~65535)		
> User Manager							
> IP Purview	D	omain none					
> IPC Information		User none					
> Publish Information	Pas	sword ••••					
> UPnP Config	DDNS Live	Time 300			Sec (1~500	)	
> FingerPrint Manager							
> Face Management		Det	ault	Refresh	OK		

Step 2 Select Enable to enable DDNS.

Step 3 Configure parameters. See Table 7-13 for the details.

Parameter	Description
Server Type	The name and web address of the DDNS service provider, see the
	matching relationship below:
Server Name	• The web address of <b>Dyndns DDNS</b> : members.dyndns.org.
	• The web address of <b>NO-IP DDNS</b> : dynupdate.no-ip.com.
Server Port	The port number of the DDNS server.
Domain	The domain name you registered on the DDNS website.
User	Enter the user name and password you got from the DDNS service provide.
Password	You need to register an account (with user name and password) on the
	DDNS service provides' website.
DDNS Live	The time interval that the VTO syncs IP address with the DDNS server.
Time	
	To avoid too much burden on the network, it is recommended that this value
	be configured around 300.

Step 4 Click **OK** to save.

Open the browser, then enter the domain name you registered on the DDNS website at the address bar, and then press Enter, if the login interface is displayed, configure succeeded; if not, check it again.

## 7.7 Video Set

This section introduces how to configure the size of the video and audio that the VTO recorded.

#### 7.7.1 Video Set

<u>Step 1</u> Select System Config > Video Set > Video Set.

The **Video Set** interface is displayed. See Figure 7-27. Click **Open Door**, and then the door opens.

Figure 7-27 Video set

- System Config	Video Set	Audio Set					
> Local Config		-		H. C. B. C. C.			
> LAN Config				Main Format	11		
> Device Manager				Video Forma	at 1080p		•
> Network Config				Frame Rate	30		-
> Video Set				Bit Rate	3Mbps		•
> User Manager				Extra Format			
> IP Purview				Video Forma	at CIF		•
> IPC Information				Frame Rate	25		•
> Publish Information				Bit Rate	256Kbps		•
> UPnP Config				Brightness	0-		50
<ul> <li>FingerPrint Manager</li> </ul>				Contrast	0-	· · ·	50
> Face Management				Hue	0-		50
Info Search				Saturation	0-		50
Status Statistics				GainAuto	0-		50
Logout				SceneMode	Automatic	•	
Logout	Default Op	en Door		Day/Night Mode	Colorful	-	
				BackLight Mode	Disabled	-	
				Mirror	<ul> <li>On</li> </ul>	⊙ Off	
				Flip	On	⊙ Off	

<u>Step 2</u> Configure video parameters. See Table 7-14 for the details.	
---	--

Parameter         Description           Main Format         Video         Select the video resolution from 1080P, 720P, WVGA, and D1.           Main Format         Frame         Configure the number of frames in 1 second. You can select from 3, Rate         23, and 30. The larger the value is, the smoother the video will be.           Format         Configure the data amount that transmitted in 1 second. You can select from 256Kbps, 1Mbps, 2Mbps, and 3Mbps. The larger the value is, the better the video quality will be.           Extra         Video         Select the video resolution from CIF, WVGA, QVGA, and D1.           Format         Format         Configure the number of frames in 1 second. You can select from 3, Rate           Frame         Configure the number of frames in 1 second. You can select from 3, Rate         23, and 30. The larger the value is, the smoother the video will be.           Format         Frame         Configure the data amount that transmitted in 1 second. You can select from 256Kbps, 1Mbps, 2Mbps, and 3Mbps. The larger the value is, the better the video quality will be.           Bit Rate         Configure the oatjust the picture brightness. The bigger the value is, the brighter the picture will be, and the smaller the darker. The picture might be hazy if the value is configured too big.           Contrast         Changes the contrast of the picture. The bigger the value is, the more the contrast will be between bright and dark areas, and the smaller the less. If the value is set too big, the dark areas would be too dark and bright area easier to get overexposed. The picture mig	Table 7-14 Video parameter description			
Main FormatFormatConfigure the number of frames in 1 second. You can select from 3, RateRate23, and 30. The larger the value is, the smoother the video will be.Bit RateConfigure the data amount that transmitted in 1 second. You can select from 256Kbps, 1Mbps, 2Mbps, and 3Mbps. The larger the value is, the better the video quality will be.ExtraVideoSelect the video resolution from CIF, WVGA, QVGA, and D1.FormatFrame RateConfigure the number of frames in 1 second. You can select from 3, 23, and 30. The larger the value is, the smoother the video will be.FormatFrame RateConfigure the number of frames in 1 second. You can select from 3, 23, and 30. The larger the value is, the smoother the video will be.FormatConfigure the data amount that transmitted in 1 second. You can select from 256Kbps, 1Mbps, 2Mbps, and 3Mbps. The larger the value is, the better the video quality will be.BrightnessConfigure the data amount that transmitted in 1 second. You can select from 256Kbps, 1Mbps, 2Mbps, and 3Mbps. The larger the value is, the better the video quality will be.ContrastChanges the value to adjust the picture brightness. The bigger the value is, the brighter the picture will be, and the smaller the darker. The picture might be hazy if the value is configured too big.ContrastChanges the contrast of the picture. The bigger the value is, the more the contrast will be between bright and dark areas, and the smaller the less. If the value is set too big, the dark areas would be too dark and bright area easier to get overexposed. The picture might be hazy if the value is set too small.HueMakes the color deeper or lighter. The defaul	Paramet	ter	Description	
Main FormatFrame RateConfigure the number of frames in 1 second. You can select from 3, 23, and 30. The larger the value is, the smoother the video will be.FormatConfigure the data amount that transmitted in 1 second. You can select from 256Kbps, 1Mbps, 2Mbps, and 3Mbps. The larger the value is, the better the video quality will be.FatterVideo FormatFrame FormatConfigure the number of frames in 1 second. You can select from 3, Extra RateFormatConfigure the number of frames in 1 second. You can select from 3, Extra RateFormatConfigure the number of frames in 1 second. You can select from 3, Extra RateFormatConfigure the number of frames in 1 second. You can select from 3, Extra RateFormatConfigure the value is, the smoother the video will be.FormatConfigure the data amount that transmitted in 1 second. You can select from 256Kbps, 1Mbps, 2Mbps, and 3Mbps. The larger the value is, the better the video quality will be.Bit RateChanges the value to adjust the picture brightness. The bigger the value is, the brighter the picture will be, and the smaller the darker. The picture might be hazy if the value is configured too big.ContrastChanges the contrast of the picture. The bigger the value is, the more the contrast will be between bright and dark areas, and the smaller the less. If the value is set too big, the dark area would be too dark and bright area easier to get overexposed. The picture might be hazy if the value is set too small.HueMakes the color deeper or lighter. The bigger the value is, the deeper the color will be, and the lower the lighter. Saturation value doesn't <td></td> <td>Video</td> <td>Select the video resolution from <b>1080P</b>, <b>720P</b>, <b>WVGA</b>, and <b>D1</b>.</td>		Video	Select the video resolution from <b>1080P</b> , <b>720P</b> , <b>WVGA</b> , and <b>D1</b> .	
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			Makes the color deeper or lighter. The bigger the value is, the deeper	
change image brightness.	Saturation	on	the color will be, and the lower the lighter. Saturation value doesn't	
			change image brightness.	

Table 7-14 Video parameter description	Table 7-14	Video	parameter	description
--	------------	-------	-----------	-------------

GainAuto	Amplify the video signal to increase image brightness. If the value is
	too big, there will be more noise in the image.
SceneMode	Adjust the video to adapt to different scenarios. You can select from
Scenewode	Automatic, Sunny, Night and Disabled. It is Automatic by default.
Day/Night Mode	You can select from Automatic, Colorful or Black White mode.
	You can select from the following modes:
	Disabled: no back light.
	• BackLight: the camera gets clearer image of the dark areas on
Pocklight Modo	the target when shooting against light.
BackLight Mode	• Wide dynamic: the system dims bright areas and compensates
	dark areas to ensure the clarity of all the area.
	• Inhibition: the system constrains bright areas and reduces halo
	size to dim the overall brightness.
Mirror	Select <b>On</b> , and then the image would display with left and right side
Mirror	reversed.
Flip	Select <b>On</b> , and then the image would be displayed upside down.

#### 7.7.2 Audio Set

Select **System Config > Video Set > Audio Set**, and then the **Audio Set** interface is displayed. See Figure 7-28. You can adjust the volume of the MIC and the speaker on the VTO.

Click **Default**, and then the volume of the MIC and the speaker are restored to default configuration.

Figure 7-28 Audio Set

🔻 System Config	Video Set	Audio Set	
> Local Config			
> LAN Config	VTO Mic \	/olume	 90
> Device Manager	VTO Beep \	/olume –	 10
> Network Config	Default		
> Video Set	Default		

# 7.8 User Manager

You can add, delete, or modify Web user information.

Select **System Config > User Manager > User Manager**, and then the **User Manager** interface is displayed. See Figure 7-29.

Figure 7-29 User Manager

🔻 System Config	User Manager				
<ul> <li>Local Config</li> </ul>					
> LAN Config	Index				
> Device Manager	1	admin	admin 's account	2	•
· · ·	Add User				
<ul> <li>Network Config</li> </ul>	Add Oser				
> Video Set					
> User Manager					

## 7.8.1 Add User

You can add users with all the authorities except adding user and admin user management.

#### Step 1 Click Add User.

The Add User interface is displayed. See Figure 7-30.

Figure 7-30 Add user

Add User	×
Username	
Password	
	Weak Middle Strong
Confirm	
Remark	
	o 32 characters, it can be a combination of letters, ise do not use special symbols like '\s "\s (\s (\s \s &) OK Cancel

<u>Step 2</u> Enter username, password, then confirm password, and then enter user description in the **Remark** input box.



This password is should contain at least 8 digits, and at least two types from number, letter, and symbol.

<u>Step 3</u> Click **OK** to finish configuration.

#### 7.8.2 Modifying User

#### 7.8.2.1 Modify Admin User

The admin user can modify his own password and email address. The email address is for password reset purpose.

Step 1 Click <sup>1</sup> in the admin user information bar.

The Modify User interface is di	lisplayed. See Figure 7-31.
---------------------------------	-----------------------------

Figure 7-31 Modify user (1)

Modify User		×
Change Password		
Email Address		Modify email
Remark	admin 's account	
	o 32 characters, it can be a comb ise do not use special symbols lii OK Cancel	

- Step 2 Modifying user information
  - 3) Select Change Password.

The password changing options are displayed. See Figure 7-32.

Modify User		×
Change Password		
Old Password		
New Password		
	Weak Middle Strong	
Confirm		
Email Address	🔲 Modify email	
Remark	admin 's account	
	o 32 characters, it can be a combination of letters, ase do not use special symbols like '\s "\s ;\s :\s &) OK Cancel	

Figure 7-32 Modify user (2)

- 4) Enter old password, new password, and then confirm password.
- 5) Select the **Modify email** check box to change your Email address.
- 6) Click OK.

#### 7.8.2.2 Modifying Normal User

Normal user includes all the users except the admin user. Admin user can modify all the uses' information and password, while normal users can only modify their own. This Manual takes admin user as example.

Step 1 Click 2 in the normal user information bar.

The **Modify User** interface is displayed. See Figure 7-33.

Figure 7-33 Modify user (1)

Modify User				
Change Password				
Remark				
Use a password that ha	s 8 to 32 char	acters, it can be a	combination of letters,	numbers
and symbols	(please do not	t use special symb	iols like '、"、(、(、&)	
	ОК	Cancel		

<u>Step 2</u> Modifying user information. See Figure 7-34.

 Select Change Password. The password changing options are displayed. See Figure 7-34.

Figure 7-34 Modify user (2)

Change Password		
Old Password		
New Password		
	Weak Middle Strong	
Confirm		
Remark		

- 2) Enter old password, new password, and then confirm password.
- 3) Modify the description.
- 4) Click OK.

#### 7.8.3 Deleting User

Click 🤤 in the user information bar to delete a certain user.

## 7.9 IP Purview

To enhance network and data security, you need to configure access authority.

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

 $\square$ 

If the **IP Purview** is enabled and there is IP address added to the white list, then only the added IP addresses can login the VTO.

<u>Step 1</u> Select System Config > IP Purview.

The IP Purview interface is displayed. See Figure 7-35.

Figure 7-35 IP Purview

Step 2 Select Enable.

The white option and black option are displayed. See Figure 7-36.

#### Figure 7-36 White option and black option

🔷 System Config	IP Purview	
> Local Config		
> LAN Config	<b>I</b> Enable 🔘 white	ø black
> Device Manager	white	black
> Network Config		
> Video Set		
> User Manager		
> IP Purview		

#### 5) Select white or black.

6) Click Add.

The Add interface is displayed. See Figure 7-37.

Figure 7-37 Add IP address

Add	×
Туре	IP Address
IP Address	
	OK Cancel

 Configure IP address. See Table 7-15 for the details. The system supports 64 IP addresses at most.

Table 7-15 IP address parameter description

Туре	Description
IP Address	Enter the IPv4 IP address, such as 192.168.1.120.
IP Range	Enter the start IP address and end IP address of the target IP segment.

8) Click OK.

The **IP Purview** interface is displayed.

<u>Step 3</u> Click **OK** to finish configuration.

You can log in the VTO Web interface with the IP addresses in the white list. Logging in the VTO Web interface with the IP addresses in the black list will fail.

# 7.10 IPC Information



This function is displayed only when the VTO you are visiting works as SIP server.

You can add 32 channels of IPC to the VTO, and you can view the IPC images from the VTH.

Select **System Config > IPC Information > IPC Information**, and then the **IPC Information** interface is displayed, see Figure 7-38.

Figure 7-38 IPC information

	10011	10.1.1	11000000			01		
LAN Config	IPC Name	IP Address	Username	Port	Protocol	Stream	Channel	Modify
Device Manager		0.0.0.0	admin	554	local	Extra Format	1	2
Network Config		0.0.0.0	admin	554	local	Extra Format	1	2
Video Set		0.0.0.0	admin	554	local	Extra Format	1	2
		0.0.0.0	admin	554	local	Extra Format	1	2
User Manager		0.0.0.0	admin	554	local	Extra Format	1	2
IP Purview		0.0.0.0	admin	554	local	Extra Format	1	1
IPC Information		0.0.0.0	admin	554	local	Extra Format	1	2
Publish Information		0.0.0.0	admin	554	local	Extra Format	1	1
UPnP Config		0.0.0.0	admin	554	local	Extra Format	1	2
FingerPrint Manager		0.0.0.0	admin	554	local	Extra Format	1	2
Face Management		0.0.0.0	admin	554	local	Extra Format	1	2
fo Search		0.0.0.0	admin	554	local	Extra Format	1	2
atus Statistics		0.0.0.0	admin	554	local	Extra Format	1	2
		0.0.0.0	admin	554	local	Extra Format	1	2
ogout		0.0.0.0	admin	554	local	Extra Format	1	1
		0.0.0.0	admin	554	local	Extra Format	1	1
		0.0.0.0	admin	554	local	Extra Format	1	1
		0.0.0.0	admin	554	local	Extra Format	1	2
		0.0.0.0	admin	554	local	Extra Format	1	2
		0.0.00	admin	554	local	Extra Format	1	1

## 7.10.2 Adding single IPC

Step 1 Click 🙋.

The **Modify** interface is displayed. See Figure 7-39.

	Figure 7-39 Modify	
Modify		×
IPC Name		
IP Address	0.0.0.0	
Username	admin	
Password	••••	
Port	554	
Protocol	local 💌	
Stream	Extra Format	
Channel	1	
	OK Cancel	

Step 2 Configure IPC parameters. See Table 7-16 for the details.

Parameter	Description
IPC Name	The name of the IPC/NVR/XVR/HCVR.
IP	The IP address of the IPC/NVR/XVR/HCVR.
Address	
Username	The username and password for the Web interface of the
Password	IPC/NVR/XVR/HCVR.
Port	It is 554 by default.
Protocol	Select from Local and Onvif, you can select according to the device
FIOLOCOI	you want to connect to the VTO
	Select Main Format or Extra Format as needed.
	• Main Format: It has large bit rate value and image with high
Stream	resolution, but also requires large bandwidth.
Silean	• Extra Format: It has small bit rate value and smooth image, and
	requires little bandwidth. This option is normally used to replace
	main stream when bandwidth is not enough.
	• It you connect IPC to the VTO, the value is 1 by default.
Channel	• It you connect NVR/XVR/HCVR to the VTO, configure the value to
	the channel number of the IPC on the NVR/XVR/HCVR.

Table 7-16 IPC parameter description

<u>Step 3</u> Click **OK** to finish configuration.

#### 7.10.3 Import Config

You can import IPC Information from local storage to the VTO.

- Step 1 Click Import Config, and then the File Upload interface is displayed.
- <u>Step 2</u> Click **File**, then select the .csv file you need,.
- Step 3 Click Upload.
- <u>Step 4</u> Enter the password for the Web interface, and then click **OK**.

#### 7.10.4 Export Config

You can export the IPC information from the VTO to the local storage for future use.

#### Click Import Config.

Enter the password for the Web interface.

# 7.11 Publish Information



This function is displayed only when the VTO you are visiting works as SIP server.

If the VTO you are visiting works as SIP server, you can publish information to the VTH users, and you can view the publish history in **System Config > Publish Information > History Info**.

## 7.11.1 Send Info

#### <u>Step 1</u> Select System Config > Publish Information > Send Info.

The **Send Info** interface is displayed. See Figure 7-40.

Figure 7-40 Send Info

System Config	Send Info H	istory Info
> Local Config		
> LAN Config	Period of validity	2018 - 08 - 15 23 : 59 : 59
> Device Manager	Send to	All devices
> Network Config	Title	
<ul> <li>Video Set</li> </ul>	Content	
> User Manager		
> IP Purview		
> IPC Information		
> Publish Information		
> UPnP Config		Note: the contect to allow the maximum number of characters is 256.
> FingerPrint Manager		Send Cancel

Step 2 Configure send info parameters. See Table 7-17 for the details.

Table 7-17 Send ir	fo parameter	description

Parameter	Description
	Send the information before the Period of validity, otherwise, the
Period of	VTH users can not receive the information.
validity	
validity	All the sent information would display in the History Info whether the
	VTH users received them or not.
Send to	The information receiver.
	• If you need to send to single user, input his room number.
All devices	• If you need to send to all the users, select the All devices check
	box.
Title	The title of the information.
Content	256 character's at most.

Step 3 Click Send.

The information is sent to the VTH users.

## 7.11.2 History Info

Select **System Config > Publish Information > History Info**, and then the **History Info** interface is displayed, see Figure 7-41.

Click 🤤 to delete publish history.

Figure 7-41 History Info

👻 System Config	Send Info	History Info			
> Local Config					
> LAN Config	Index	Send Time	Period of validity	Title	Delete
> Device Manager					
> Network Config					🛤 🛋 1 / 1 🕨 🍽 Go to 🍡 📦
> Video Set					
> User Manager					
> IP Purview					
> IPC Information					
> Publish Information					

# 7.12 UPnP Config

Universal Plug and Play, a protocol that establishes mapping relation between local area and wide area networks. This function enables you to visit local area device through wide area IP address.



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

- This function is needed only when the VTO is connected to a router.
- Enable the UPnP function of the router, and then configure the IP address of the WAN port to set up Internet connection.
- Connect your device to the LAN port of the router.

Select **System Config > UPnP Config**, and then the **Common Config** interface is displayed. See Figure 7-42.

System Config Co	ommon Config							
> Local Config								
> LAN Config	UPnP Enable	Server Name	Protocol	Inport	Outport	Status	Modify	Delete
Device Manager	7	HTTP	TCP	80	8080	Failed	Modily	
Network Config		TCP	TCP	37777	37777	Failed	2	
Video Set	<b>V</b>	UDP	UDP	37778	37778	Failed	2	
User Manager	v.	RTSP	TCP	554	554	Failed	2	
IP Purview	×	PrivService	TCP	18877	18877	Failed	-	ě
IPC Information	<b>V</b>	SIP	UDP	5060	5060	Failed	2	
Publish Information	v	Rtp	UDP	15001	15001	Failed	-	
UPnP Config	<b>V</b>	Rtp	UDP	15002	15002	Failed	2	
FingerPrint Manager	<b>V</b>	Rtp	UDP	15003	15003	Failed	2	
<ul> <li>Face Management</li> </ul>	<b>V</b>	Rtp	UDP	15004	15004	Failed	2	
nfo Search	10						<u>~</u>	
Status Statistics	OK Add	Refresh					M 4 1	3 🕨 🍽 Go to

#### Figure 7-42 Common Config

## 7.12.2 Enabling UPnP

There have been some mapping relations done in the factory; you can enable to use them.

- <u>Step 1</u> Select **UPnP Enable** to enable UPnP function.
- <u>Step 2</u> Select the service you need to map.
- Step 3 Click OK to save.
  - Open the web browser on PC and enter "http:// wide area IP address: external port number", and then you can visit the local area device with corresponding port.

## 7.12.3 Adding Service

You can add new mapping relations.

Step 1 Click Add.

The Add interface is displayed. See Figure 7-43.

Figure 7-43 Add mapping relation

Add			٥
	Turn on	© Turn off	
Server Name			
Protocol	TCP	•	
Inport			
Outport			
	ОК	Cancel	

<u>Step 2</u> Configure parameters. See Table 7-18 for the details.

Table 7-18 UPnP parameter description

Parameter	Description					
Turn on/Turn off	Select Turn	Select <b>Turn on</b> , and then the mapping relation is enabled. Select <b>Turn off</b> , then the mapping relation will not be enabled, and you can select it later in the list.				
Server Name	The name of	The name of the server.				
Protocol	You can sele recommende	ect from <b>TCP</b> and <b>UDP</b> . For the transmission stability, <b>TCP</b> is ed.				
Inport	The port on the VTO that need to be mapped.	<ul> <li>Try to use port number between 1024 to 5000 and not between 1 to 255 and 256 to 1023 when mapping ports with router to avoid conflict.</li> </ul>				
Outport	The port on the router that the VTO port is being mapped to.	<ul> <li>When mapping multiple devices to the external ports, do the planning in advance to avoid mapping different devices to the same external port.</li> <li>Make sure the ports you are using are not being used or constrained.</li> <li>The external ports of TCP and UDP must be the same.</li> </ul>				

<u>Step 3</u> Click **OK** to finish configuration.

## 7.12.4 Modifying Service

You can modify the mapping relations in the list.

Step 1 Click 2.

The **Modify** interface is displayed. See Figure 7-44.

Figure 7-44 Modify mapping relation

Modify	×
Server Name	НТТР
Protocol	TCP 💌
Inport	80
Outport	8080
	OK Cancel

<u>Step 2</u> Configure parameters. See Table 7-18 for the details. Step 3 Click OK to finish.

## 7.12.5 Deleting Service

You can delete the mapping relations in the list.

Click 🤗 to delete mapping relation.

# 7.13 Fingerprint Manager

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

 $\square$ 

The VTO supports 3000 fingerprints at most.

Select System Config > Fingerprint Manager, and then the FingerPrintInfo interface is displayed. See Figure 7-45.

Figure 7-45 Fingerprint manager

System Config	FingerPrintInfo				
> Local Config					
> LAN Config	Username	Room Number	FingerPrint ID	Modify	Delete
> Device Manager	Master	1201d	0	2	•
> Network Config	nana	1111	1	2	•
	L	9901	2	2	•
> Video Set					
> User Manager	Collect Remove All FingerPrint Export FingerPrint Import				📢 🛋 1 / 1 🕨 🍽 Goto 🕢 📦
> IP Purvlew					
> IPC Information					
> Publish Information					
> UPnP Config					
> FingerPrint Manager					

## 7.13.2 Adding Fingerprint

You can unlock with the added fingerprint.

Step 1 Click Collect.

The FingerPrintInfo interface is displayed. See Figure 7-46.

Figure	7-46	Add	fingerprint	(1)
iguio	1 40	/ (00	mgorprint	<b>\'</b>

FingerPrint Info		×
	Please Add Necessary Info!	
Username		
Room Number	*	
	OK Cancel	

<u>Step 2</u> Enter username and room number, and then click **OK**. The input fingerprint notice is displayed.

 $\square$ 

The room number is what you configured on the VTH.

- Step 3 Press the fingerprint sensor on the VTO as instructed.
  - The success notice is displayed in the Web interface, and the added fingerprint is displayed in the list.
  - If the fail notice is displayed, add it again.

## 7.13.3 Modifying Fingerprint

Click 🙎 to modify the username and room number for a fingerprint.

## 7.13.4 Deleting Fingerprint

Click 🤤 to delete fingerprint.

Click Remove All to delete all the fingerprints.

## 7.13.5 Export Fingerprint

Export the fingerprint information as .xls file to the local storage.

Step 1 Click FingerPrint Export.

The Input password interface is displayed. See Figure 7-47.

Figure 7-47 Input password

Please input password		×
Password		
	o 32 characters, it can be a combination of letters, ise do not use special symbols like '\s "\s (\s (\s \s)) OK Cancel	

Step 2 Enter the password for the Web interface, and then click OK to export fingerprint.

## 7.13.6 Import Fingerprint

Step 1 Click FingerPrint Import.

Step 2 Select the .csv file.

- Step 3 Click File, and then select the .csv file you need.
- Step 4 Click Upload.
- <u>Step 5</u> Enter the password for the Web interface, and then click **OK**. The success notice is displayed.

# 7.14 Face Management

This section introduces how to configure face recognition and how to manage face data.

## 7.14.1 Configuring Face Recognition

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

#### <u>Step 1</u> Select System Config > Face Management > Face Recognition.

The Face Recognition interface is displayed. See Figure 7-48.

System Config	Face Recognition Face	e Management	
> Local Config			
> LAN Config	Face Threshold	85	(0~100)
> Device Manager	Anti False Threshold	80	(0~100)
> Network Config	Face Recognition Angle		(0,00)
> Video Set	Face Recognition Angle	90	(0~90)
> User Manager		0	
> IP Purview	Flash Light Brightness		1
> IPC Information		Default Refresh	OK
> Publish Information			
> UPnP Config			
> FingerPrint Manager			
> Face Management			

Figure 7-48 Face recognition

Step 2 Configure face recognition parameters. For the detailed description. See Table 7-19.

Parameter	Description
Face Threshold	The bigger the value is, the more similar the target and the saved face
Face mileshold	data is required to open the door.
Anti False	The bigger the value is, the less the chance that the system defines a
Threshold	target as human face, hence the more accurate it will be.
Face Recognition	The bigger the value is, the bigger the angle that the target is allowed to
Angle	turn his face during recognition.
Flash Light	The brightness of the fill light when providing light to feed recognition
Brightness	The brightness of the fill light when providing light to face recognition.

Table 7-19 Face recognition parameter description

<u>Step 3</u> Click **OK** to finish configuration.

#### 7.14.2 Face Management

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

```
\square
```

The VTO can save 10,000 faces at most.

Select System Config > Face Management > Face Management, and then the Face Management interface is displayed. See Figure 7-49.

Figure 7-49 Face management



#### 7.14.2.1 Importing Face Data

- Step 1 Click Import Face Info.
- Step 2 Click File, and then select the file you need.
- Step 3 Click Upload.
  - $\square$

If third party server works as SIP server, this operation can only be done on the third party server.

#### 7.14.2.2 Exporting Face Data

Step 1 Click Export Face Info.

The **Input password** interface is displayed. See Figure 7-50.

Figure 7-50 Input Password

Please input password		×
Password		
	to 32 characters, it can be a combination of letters, ase do not use special symbols like 'x "x ; x : x &) OK Cancel	

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

#### 7.14.2.3 Deleting Face Data

Click 🤤 to delete face data.

Click Remove All to delete all the face data.

## 7.15 Info Search

You can view call history, alarm record, and unlock record.

#### 7.15.1 Call History

You can view the call history and phone call record of the VTO, it can save 1024 records at most.

Select **System Config > Info Search > Call History**, and then the **VTO Call History** interface is displayed. See Figure 7-51.You can view the call type, room number, begin time, talk time, and end time.

Click Export Record to export the records.

Figure 7-51 VTO call history



## 7.15.2 Alarm Record

# $\underline{\wedge}$

This function is displayed only when the VTO you are visiting works as SIP server.

You can view the VTH alarm record and duress password alarm record, the VTO can save 1024 records at most.

Select **System Config > Info Search > Alarm Record**, and then the **Alarm Record** interface is displayed. See Figure 7-52.

Click **Export Record** to export the alarm records.

Figure 7-52 Alarm record

System Config	Alarm Record				
Info Search					
> Call History	Index	Room Number	Event State	Channel	Begin Time
> Alarm Record					
> Unlock Record	Export Record				📢 ┥ 1 / 1 🕨 🍽 Go to 🛛 😥
Status Statistics					
Logout					

## 7.15.3 Unlock Record

You can view various unlock records, including face unlock, fingerprint unlock, access card unlock, password unlock, remote unlock, and press button unlock, and the VTO can save 1,000 unlock record at most.

Select **System Config > Info > Unlock Record**, and then the **VTO unlock Record** interface is displayed. See Figure 7-53. You can view information such as unlock type, unlock time, and unlock result.

Call History	1	Face Detect Unlock	9901	LL		Success	2018-08-15 14:07:00
Jarm Record	2	FingerPrintUnlock	1201	Master		Success	2018-08-14 17:39:49
Jnlock Record	3	Remote Unlock				Success	2018-08-14 15:18:04
tus Statistics	4	Brush Card Unlock			0d61a3b9	Failed	2018-08-13 19:21:47
jout	5	Face Detect Unlock	9901	LL		Success	2018-08-13 17:04:22
	6	Face Detect Unlock	9901	ш		Success	2018-08-13 16:28:14
	7	Face Detect Unlock	9901	LL		Success	2018-08-13 15:53:45
	8	Face Detect Unlock	9901	LL C		Success	2018-08-13 15:52:47
	9	Face Detect Unlock	9901	LL		Success	2018-08-13 15:29:38
	10	Face Detect Unlock	9901	LL		Success	2018-08-13 14:59:27
	11	Face Detect Unlock	9901	LL		Success	2018-08-13 08:49:20
	12	FingerPrintUnlock	9901	L		Success	2018-08-11 17:06:24
	13	Face Detect Unlock	9901	LL		Success	2018-08-11 17:05:13
	14	Face Detect Unlock	9901	LL		Success	2018-08-11 16:53:51
	15	Face Detect Unlock	9901	LL		Success	2018-08-11 16:31:57
	16	Password Unlock				Failed	2018-08-08 20:59:29
	17	Password Unlock	88888			Failed	2018-08-01 11:57:44
	18	FingerPrintUnlock	1201	Master		Success	2018-08-01 11:44:14
	19	Password Unlock				Failed	2018-07-31 16:39:58
	20	FingerPrintUnlock	1111	nana		Success	2018-07-31 16:20:26

Figure 7-53 VTO unlock Record

Click **Export Record** to export the unlock records.

# 7.16 Status Statistics

You can view the on line and off line status of the VTO and the VTH.

Select **System Config > Status Statistics > Device Status**, and then the **Device Status** interface is displayed. See Figure 7-54. You can view information such as device status, IP port, register time, and off time.





There are Online and Offline in the Status column.

- **Offline**: the VTO is not connected with VTH, and it cannot make phone call, do area monitor or talk to the VTH.
- **Online**: the VTO is connected with VTH, and it can make phone call, do area monitor or talk to the VTH.

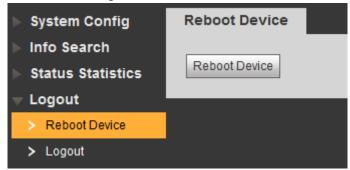
# 7.17 Rebooting Device

You can reboot the VTO from the Web interface.

Select **System Config > Logout > Reboot Device**, and then the **Reboot Device** interface is displayed. See Figure 7-55.

Click Reboot Device, and then the VTO reboots, and then the login interface is displayed.

Figure 7-55 Reboot device



## 7.18 Logout

Select **System Config > Logout > Logout**, and then the **Logout** interface is displayed. See Figure 7-56.

Click Logout, and then the login interface is displayed.

Figure 7-56 Logout

System Config	Logout
Info Search	· •
Status Statistics	Logout
> Reboot Device	
> Logout	

# Appendix 1 Specification

Model		VTO9341D
	Processor	Embedded high performance processor
System	Operation system	LINUX
	Video format	H.264
	Camera	2MP HD Camera
Video	Night vision	Support
	Back light	Support
	Auto Fill light	Support
	MIC	Omni-directional microphone
Audio	Speaker	Built-in speaker
	Intercom	Two-way intercom
Diaples	Screen	10-Inch IPS touch screen
Display	Resolution	1280×800
Card reader		Built-in card reader
Fingerprint		Support
Motion sensor	Human body approaching	Support
Alarm	Tamper alarm	Support
	NO output	Support
A	NC output	Support
Access	Unlock button	Support
control	Door status detection	Support
Network	Ethernet	10Mbps/100Mbps
Network	Network protocol	TCP/IP
	Power	DC 12V 5A
	Power consumption	Standby≤5W; Working≤24W
Standard	Environmental	-20°C-+60°C
	Requirements	10%RH-95%RH
	Protection class	IP55; IK07
	dimension	475mm×174mm×58mm

Name Face Recognition Apartment Outdoor Station	Quantity 1	Info
Power adapter	1	
User's Manual	1	
Screw package	1	