

Cybersecurity Recommendations

Mandatory actions to be taken towards cybersecurity

1. 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.

2. 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

1. Change Passwords Regularly

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

2. 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.

3. Enable HTTPS/SSL:

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

4. Enable IP Filter:

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

5. 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.

6. 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.

7. 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.

8. 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.

9. 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.

10. 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.

11. 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.

12. 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.

13. 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.

14. 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.

15. 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.

16. 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.

General

This document mainly introduces function, structure, network, installation process, debugging process of VTH products matched with Version 3.1 VT UI interface, together with operating instruction and technical parameter of UI interface.

Models

Туре	Model Series		Specific Model
	VTH15 series	Туре А	VTH1520A, VTH1520AS-H, VTH1520AH, VTH1520AS
Digital		Туре В	VTH1550B, VTH1560B(W)
Digital VTH		Type CH	VTH1510CH, VTH1520CH, VTH1550CH, VTH1550CHM
VILL	VTH16 series		VTH1660CH
	VTH2X series		VTH2221A
2-wire VTH	2-wire VTH		VTH1550CHW-2, VTH5222CH

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.
	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	2017.10.16
2	V1.0.1	Add privacy protection notice	2018.05.23
3	V1.0.2	Update rear panel drawing	2018.06.28

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 User's Manual, CD-ROM, QR code or our official website. If there is inconsistency between paper User's 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 Guide (in PDF format) cannot be opened.
- All trademarks, registered trademarks and the company names in the Manual are the properties of their respective owners.
- Please visit our website, contact the supplier or customer service if there is any problem occurred when using the device.
- If there is any uncertainty or controversy, please refer to our final explanation.

Important Safeguards and Warnings

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

Operating Requirement

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

Power Requirement

- Please make sure to use batteries according to requirements; otherwise, it may result in fire, explosion or burning risks of batteries!
- To replace batteries, only the same type of batteries can be used!
- The product shall use electric wires (power wires) recommended by this area, which shall be used within its rated specification!
- Please make sure to use standard power adapter matched with this device. Otherwise, the user shall undertake resulting personnel injuries or device damages.
- Please use power supply that meets SELV (safety extra low voltage) requirements, and supply power with rated voltage that conforms to Limited Power Source in IEC60950-1. For specific power supply requirements, please refer to device labels.
- Products with category I structure shall be connected to grid power output socket, which is equipped with protective grounding.
- Appliance coupler is a disconnecting device. During normal use, please keep an angle that facilitates operation.

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1.1 Product Profile

VTH series product is a digital video intercom home station for numerous homes, integrating monitoring, intercom and unlocking. With embedded technology, all IP network, SNMP (Simple Network Management Protocol) network management technology and network encryption technology, achieve more stable system operation, richer functional extension, more convenient system management and safer data transmission.

1.2 Product Function

Wi-Fi Networking

Realize Wi-Fi networking of devices.

Video Intercom

Call or connect VTO and VTH; realize talk.

Monitoring

Monitor fence station, VTO and IPC devices.

Emergency Call

Press the key to call the Management Center in case of an emergency.

Auto Snapshot

Snapshot the call picture or monitoring picture, and store them in SD card or FTP.

DND (Do Not Disturb)

Avoid other's incoming call interference.

Remote Unlock

Realize remote unlock.

Arm and Disarm

Provide 6/8-channel area setting, arm and disarm them.

Playback

Play back videos and pictures in SD card of this device.

Alarm

After 8/6-channel area triggers an alarm, pop up an alarm prompt interface, provide linkage alarm output and report to Management Center.

Record Inquiry

Inquire call records and alarm records.

Message Inquiry

Inquire guests' message, videos, pictures and announcements issued by Property Management Center.

2 Product Structure

2.1 Front Panel

2.1.1 VTH15 Series Type A/B

In VTH15 series, different types of devices have different front panels.

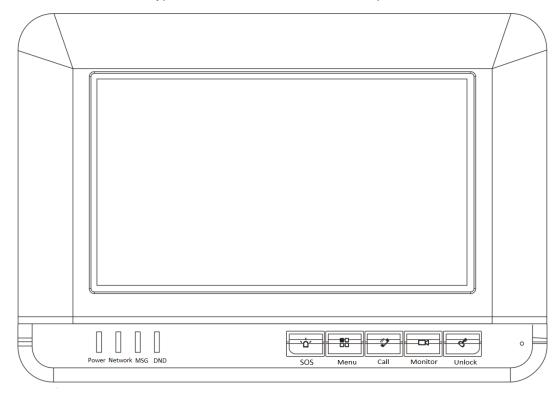


Figure 2-1 VTH15 Series Type A

lcon	Name	Description	
sos	SOS	Press this key to call the Call Center in case of emergency.	
Menu	Menu	Press this key to return to main menu.	
 Call In case of incoming call, press this key to answ the call. During talk, press this key to hang up. During monitoring, press this key to speak apartment VTO, villa VTO and fence station. During speaking, press this key to exit speaking. 			
Monitor	Monitor	• In standby mode, press this key to monitor the main VTO.	

lcon	Name	Description	
		• During monitoring, press this key to exit monitoring.	
Unlock	Unlock	Press this key during calling, talking, monitoring and speaking of VTO, so corresponding VTO will be unlocked.	
Power	Power indicator	If this indicator turns on in green, it represents normal power supply.	
Network	Network indicator	 If this indicator turns on, it represents normal communication with VTO. If this indicator turns off, it represents abnormal communication with VTO. 	
MSG	Message indicator	If this indicator turns on, it represents that there are unread messages.	
	DND indicator	If this indicator turns on in green, it represents that DND function is enabled. Note For DND settings, please refer to "6.2.1.5 DND Settings".	

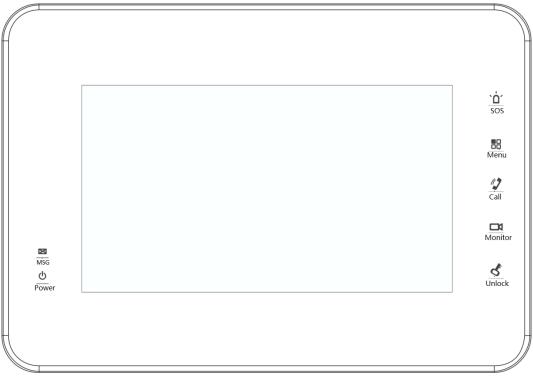


Figure 2-2 VTH15 Series Type B

lcon	Name	Description
<mark>`ם`</mark> sos	SOS	Press this key to call the Call Center in case of emergency.
Menu	Menu	Press this key to return to main menu.

lcon	Name	Description	
Call	Call	 In case of incoming call, press this key to answer the call. During talk, press this key to hang up. During monitoring, press this key to speak to apartment VTO, villa VTO and fence station. During speaking, press this key to exit speaking. 	
Monitor	Monitor	 In standby mode, press this key to monitor the main VTO. During monitoring, press this key to exit monitoring. 	
S Unlock	Unlock	Press this key during calling, talking, monitoring and speaking of VTO, so corresponding VTO will be unlocked.	
MSG	Message indicator	If this indicator turns on, it represents that there are unread messages.	
ወ	Power	If this indicator turns on in green, it represents norma	
Power	indicator	power supply.	

2.1.2 VTH15 Series Type CH/5222CH

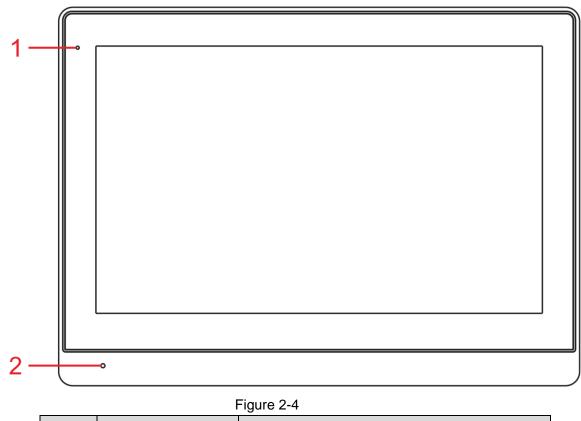
	<i>^</i> ۵
	J
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Figure	2-3
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lcon	Name	Description	
°Ô°	SOS	Press this key to call the Call Center in case of emergency.	
	Menu	Press this key to return to main menu.	
		• In case of incoming call, press this key to answer the	
J	Call	call.	
		During talk, press this key to hang up.	

Name	Description
	• During monitoring, press this key to speak to apartment
	VTO, villa VTO and fence station.
	• During speaking, press this key to exit speaking.
	• In standby mode, press this key to monitor the main
Monitor	VTO.
	• During monitoring, press this key to exit monitoring.
	Press this key during calling, talking, monitoring and
UNIOCK	speaking of VTO, so corresponding VTO will be unlocked.

2.1.3 VTH1660CH



No.	Name	Description
1	Rower indicator	If this indicator turns on in green, it represents
1	1 Power indicator	normal power supply.
2	Microphone	Audio input.
		Table 2-4

2.1.4 VTH2221A

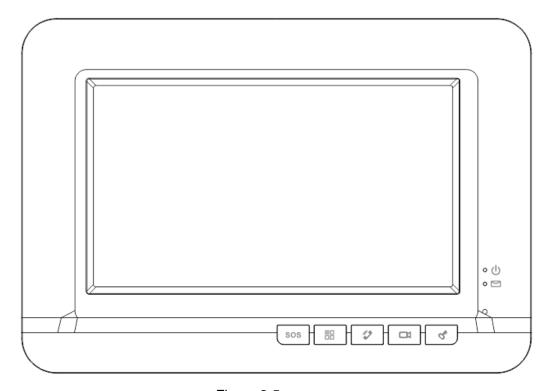
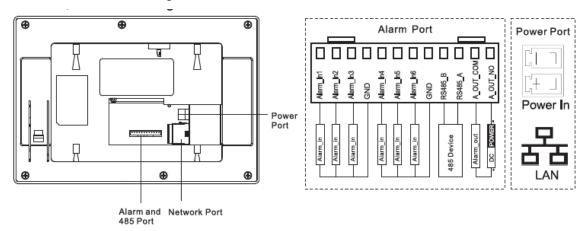


		Figure 2-5
lcon	Name	Description
sos	SOS	Press this key to call the Call Center in case of emergency.
	Menu	Press this key to return to main menu.
2	Call	 In case of incoming call, press this key to answer the call. During talk, press this key to hang up. During monitoring, press this key to speak to apartment VTO, villa VTO and fence station. During speaking, press this key to exit speaking.
	Monitor	 In standby mode, press this key to monitor the main VTO. During monitoring, press this key to exit monitoring.
<i>d</i> ₄	Unlock	Press this key during calling, talking, monitoring and speaking of VTO, so corresponding VTO will be unlocked.
o (ل	Power indicator	If this indicator turns on in green, it represents normal power supply.
• 🖻	Message indicator	If this indicator turns on, it represents that there are unread messages.

2.2 Rear Panel Port

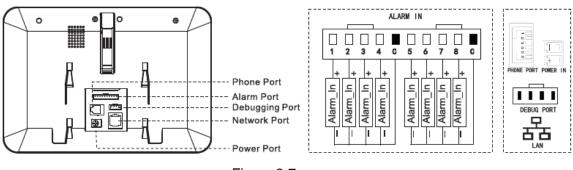
2.2.1 VTH15 Series Type A/ Type B/ Type CH

In VTH15 series, different types of digital VTH have different port positions, but the same port owns the same function. Taking VTH1550CH as an example, specific functions of ports are introduced, as shown in Figure 2-6.





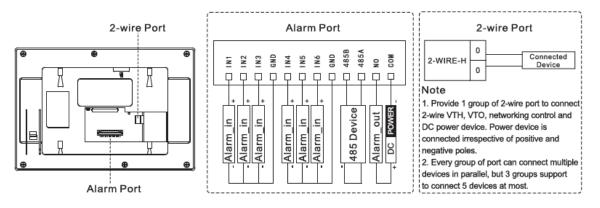
In VTH type A/type B series, different types of digital VTH have different port positions, but the same port provides the same function. Taking VTH1560B as an example, specific functions of ports are introduced, as shown in Figure 2-7.





2.2.2 VTH5222CH

VTH5222CH 2-wire VTH provides 6 alarm input ports, 1 alarm output port, 1 RS485 port and 1 group of 2-wire port, as shown in Figure 2-8. VTH1550CHW-2 has 3 groups of 2-wire port.



2.2.3 VTH1660CH

VTH1660CH digital VTH provides 8 alarm input ports, 1 RS485 port, 1 debugging port, 1 network port and power port, as shown in Figure 2-9.

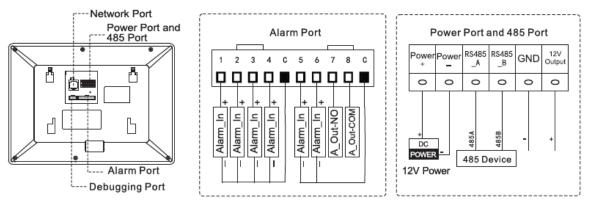


Figure 2-9

2.2.4 VTH2221A

VTH2221A digital VTH provides 8 alarm input ports, 1 network port and power port, as shown in Figure 2-10.

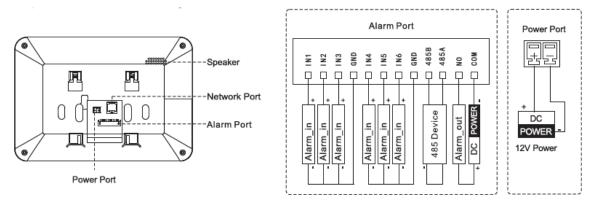
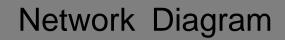


Figure 2-10



3.1 2-wire System

Network diagram of 2-wire system is shown in Figure 3-1.

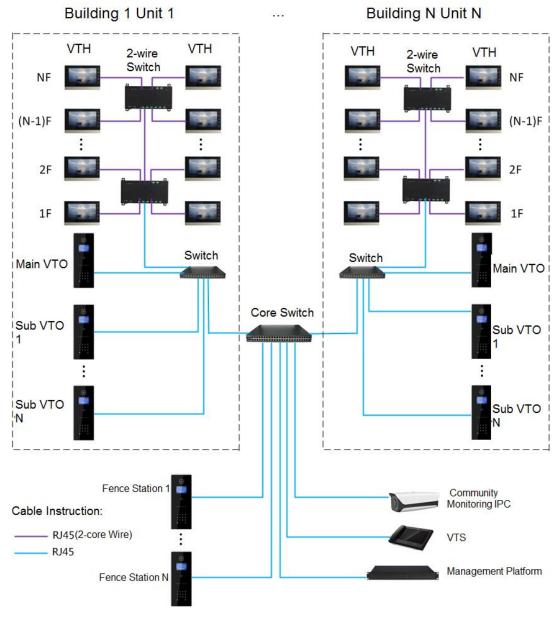
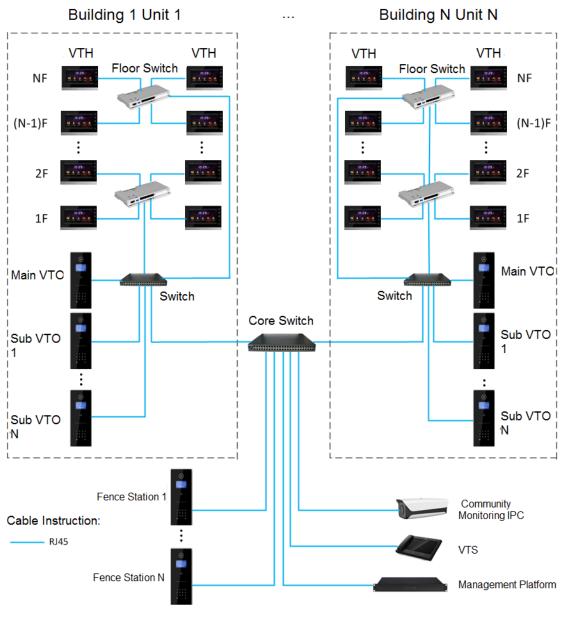


Figure 3-1

3.2 Digital System

Digital system network consist of two types:

• VTH adopts PoE power supply from floor switch, as shown in Figure 3-2.





• VTH adopts independent power supply from power supply device, as shown in Figure 3-3.

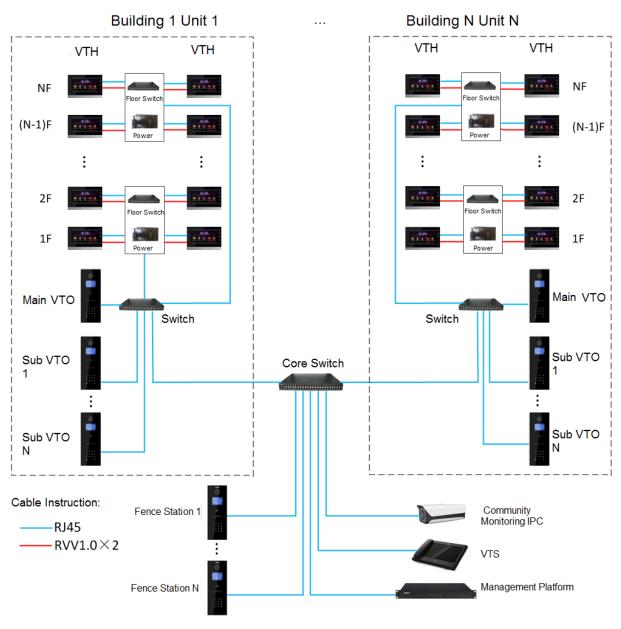
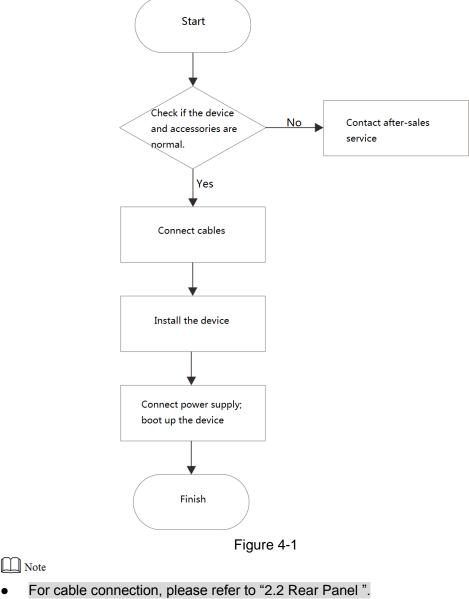


Figure 3-3

4.1 Installation Flow Chart

VTH installation flow chart is shown in Figure 4-1. Please install VTH in the following steps.



• For device installation, please refer to "4.4 Device Installation".

4.2 Open-case Inspection

Please carry out open-case inspection when receiving the device. Please timely contact our

after-sales service personnel in case of any problems.

Sequence	ltem		Content
		Appearance	Inspect whether there are obvious damages.
1	Overall	Package	Inspect whether there are accidental
	package	Гаскауе	impacts.
		Fittings	Inspect whether fittings are complete.
		Device model	Inspect whether it is consistent with order
		Device model	contract.
			Inspect whether it is torn or damaged.
2	Model		Note
2	and label	Label on the	Don't tear or discard the label, otherwise
		device	warranty service won't be provided. When
			dialing our after-sales hotline, please provide
			serial number of the product.
3	Device	Appearance	Inspect whether there are obvious damages.

Table 4-1

4.3 Installation Requirement

- Don't install VTH in bad environment, such as condensation, high temperature, stained, dusty, chemically corrosive and direct sunshine environment.
- Engineering installation and debugging shall be done by professional teams. Please don't dismantle or repair arbitrarily in case of device failure.

4.4 Device Installation

Note Note

It is suggested that installation height of device central point shall be 1.4 cm \sim 1.6cm above the ground.

4.4.1 Surface Installation

Directly install the device with a bracket onto a wall, which is suitable for all types of devices. Take "VTH1550CH" for example.

- Step 1 Drill holes in the wall according to hole positions of the bracket.
- Step 2 Fix installation bracket directly onto the wall with screws.
- Step 3 Put the device into installation bracket from top down.

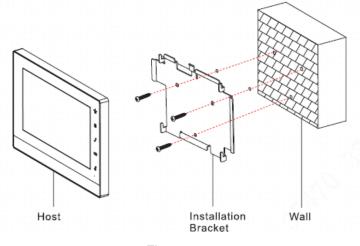


Figure 4-2

4.4.2 Installation with 86 Box

Install the device with 86 box, which is suitable for all types of devices. Take "VTH1560B/BW" for example.

- Step 1 Embed 86 box into a wall at a proper height.
- Step 2 Fix installation bracket onto 86 box with screws.
- Step 3 Put the device into installation bracket from top down.

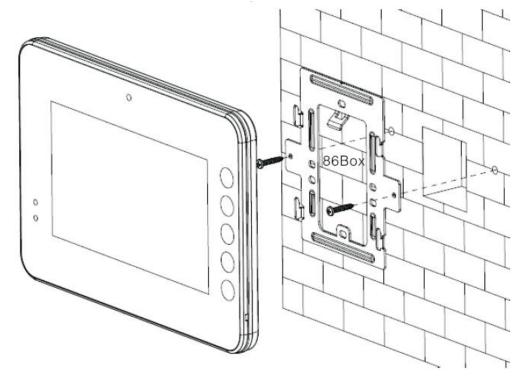


Figure 4-3

5

Device Debugging

Carry out debugging to ensure that the device can realize basic network access, call and monitoring functions after installation. Before debugging, please check whether the following work has been completed.

- Debugging personnel get familiar with relevant documents, device installation, wiring and use.
- Check whether there is short circuit or open circuit. Power on the device only after the circuit is confirmed to be normal.

5.1 Debugging Settings

The system provides two debugging methods. Please select according to actual needs.

- Single debugging: set VTO info and VTH info at WEB interface of every VTO, set VTH info, network info and VTO info on every VTH, and thus realize video intercom function.
- Batch debugging: set VTO info and VTH info at WEB interface of every VTO, set VTH network segment and enable it at WEB interface of a unit VTO, and then add info about all VTOs. Initialize every VTH to realize video intercom function.

5.1.1 Single Debugging

5.1.1.1 VTO Settings

For the first time, please initialize and modify login password.

Note Note

Please ensure that default IP addresses of PC and VTO are in the same network segment. Default IP address of VTO is 192.168.1.110.

- Step 1 Connect VTO power and boot up.
- Step 2 Enter default IP address of VTO at the address bar of PC browser.

The system displays "Setting" interface, as shown in Figure 5-1.

Dev	/ice
	1 Setting 2 Protect 3 OK
	Username admin New Password
	Weak 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 ' v " v ; v ; v ; v &)
	Next
•	Figure 5-1 Enter "New Password" and "Confirm", and click "Next". The system displays "Protect" interface, as shown in Figure 5-2.
	This password is used to login WEB interface. It shall be at least 8 characters, and sh
Devi	include at least two types of number, letter and symbol.
Devic	Setting 2 Protect 3 OK
	I Email
	(To reset password, please input properly or update in time)
	Next

Figure 5-2

Step 4 Select "Email" and enter your Email address.

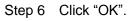
This Email address is used to reset the password, so it is recommended that it should be set.

Step 5 Click "Next".

The system displays "OK" interface, as shown in Figure 5-3, and shows "Device succeed!"

Device				×
	1 Setting	2 Protect	3 ок	
		Device Succes	ed!	
		Ok		

Figure 5-3



The system displays WEB login interface, as shown in Figure 5-4.

 P Door Station Web Server V1.0	
4	
9	Forgot Password?
Login	



Step 7 Enter user name and password, and click "Login". Log in the WEB interface of the device.

- Default user name is admin.
- Password is the one set during initialization.
- Step 8 Select "System Config > Network Config > TCP/IP".

The system displays "Network Settings" interface, as shown in Figure 5-5.

TCP/IP	FTP	Po	rt	DDNS	HTTPS Setting
IP Address	172.26.7.42	2			
Subnet Mask	255.255.0.0)			
Default Gateway	172.26.0.1				
MAC Address	00:01:5b:0	0:33:55			
DNS Address	8.8.8.8				
SSH	⊚ On	 Off 			
	Default	Refresh	ОК		

Figure 5-5

- Step 9 Enter the planned "IP Address", "Subnet Mask" and "Default Gateway", and click "OK". After modification is completed, VTO reboots automatically, while the following two cases occur at WEB interface.
 - If PC is in the planned network segment, WEB interface jumps to new IP login interface automatically.
 - If PC is not in the planned network segment, the webpage cannot be displayed. Please enter a new IP address in the browser.
- Step 10 Login WEB interface again.
- Step 11 Select "System Config > LAN Config".

The system displays "LAN Config" interface, as shown in Figure 5-6.

LAN Config		
Building No.	01	
Building Unit No.	1	
VTO No.	6901	
Max Extension Index	5	Group Call
MGT Centre IP Address	10.34.6.102	Register to the MGT Centre
MGT Port No.	12801	
NoAnswer Transfer MGT Centre	O Enable	Disable
		eds reboot after modifing the config above. Ied,need reboot VTH and init VTH information again!
		resh OK

Figure 5-6

- 1. Enter VTO "Building No.", "Building Unit No." and "VTO No.".
- 2. Click "OK".
- Step 12 Select "System Config > Digital Indoor Station Manager". The system displays "Digital Indoor Station Manager" interface, as shown in Figure 5-7.

tal Indoor Station I	Manager						
FamilyName	FirstName	Nick Name	Room No.	IP Address	Card No. Info	Modify	Delete
			9901	172.26.7.41		2	•
			101	0.0.0.0		2	•
			201	172.26.7.43		1	-

Figure 5-7

Step 13 Click "Add".

The system displays "Add" interface, as shown in Figure 5-8.

Add		×
FamilyName		
FirstName		
Nick Name		
VTH Short No.		*
IP Address		
	OK Cancel	

Figure 5-8

- 1. Enter VTH "Family Name", "First Name", "Nick Name", "VTH Short No." (VTH room no.) and "IP Address".
- 2. Click "OK".

5.1.1.2 VTH Settings

5.1.1.2.1 Initialization

Set the password and bind your Email.

- Password: it is used to enter project setting interface.
- Email: it is used to retrieve your password when you forget it.
- Step 1 Power on the device.

The system displays "Welcome" and enters "Initialization" interface, as shown in Figure 5-9.

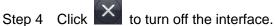
	Device Init	
	a d	
Password		
Confirm Pwd:		
Email:		
		#
	ОК	
	Confirm Pwd:	Password Confirm Pwd: Email:

Figure 5-9

- Step 2 Enter "Password", "Confirm Pwd" and "Email".
- Step 3 Click [OK].

The system displays "Info Init" interface, as shown in Figure 5-10.

	Info Init		×
		_	
Building No.	01		
Unit	1		
Room No.	9901	Master	
Master IP	0 . 0 . 0	. 0	
	ОК		
	Figure 5-10		



5.1.1.2.2 Network Settings

Set VTH network info, which supports static IP and DHCP.

Note Note

IP addresses of VTH and VTO shall be in the same network segment. Otherwise, VTH will fail to obtain VTO info after configuration.

Step 1 Select "System Config > Project Settings".

The system pops up "Password" prompt box.

Step 2 Enter the password set during initialization, and click [OK].

Step 3 Click [Net Set].

The system displays "Net Set" interface, as shown in Figure 5-11.

₽	Project Settings	â
		Product Info
	Static IP	<> Net Set
Local IP	172 . 26 . 7 . 41	V Net Set
Subnet M	1ask 255 . 255 . 0 . 0	Network
Gateway	172 . 26 . 0 . 1	PC Info
MAC	90:02:a9:80:aa:11	Search Device
	ОК	Default

Figure 5-11

- Step 4 Set according to actual network access mode.
 - Static IP
 - 1. Select "Static IP".
 - 2. Enter "Local IP", "Subnet Mask" and "Gateway".
 - DHCP

Select "DHCP" to obtain IP address automatically.

Step 5 Click [OK] to save the settings.

5.1.1.2.3 Product Info Settings

Set VTH "Room No.", "Type" and "Master IP".

- Step 1 Select "System Config >Project Settings".
 - The system pops up "Password" prompt box.
- Step 2 Enter the password set during initialization, and click [OK].
- Step 3 Click [Product Info].

The system displays "Product Info" interface, as shown in Figure 5-12.

	Project Se	ttings		G
Room No.	9901	Master		🔜 Product Info <
Master IP	0 . 0 . 0 . 0			♦ Net Set
Version	General_Eng_P			
	V3.120.0000.0.R.2017080	4		☑ Network
User Name	admin			IPC Info
Password	****			Search Device
SSH	ON			Oefault
	ОК	Reset MSG		
	Room No. Master IP Version User Name Password	Room No. 9901 Master IP 0 0 0 Version General_Eng_P V3.120.0000.0.R.2017080 User Name admin Password Image: Constant of the second of th	Room No. 9901 Master Master IP 0 0 0 Version General_Eng_P V3.120.0000.0.R.20170804 User Name admin Password ••••• SSH ON •••	Room No. 9901 Master Master IP 0 0 0 Version General_Eng_P V3.120.0000.0.R.20170804 User Name admin Password ••••• SSH ON •••

Figure 5-12

Step 4 Set VTH info.

• Be used as a master VTH.

Enter "Room No." (such as 9901).

Note Note

"Room no." shall be the same with "VTH Short No.", which is set when adding VTH at WEB interface. Otherwise, it will fail to connect VTO.

- Be used as a VTH extension.
- 1. Press [Master] and switch to "Extension".
- 2. Enter "Room No." (such as 9901-1) and "Master IP" (IP address of master VTH).

"User Name" and "Password" are the user name and password of master VTH. Default user name is admin, and the password is the one set during device initialization.

Step 5 Click [OK] to save the settings.

5.1.1.2.4 Network Terminal Setting

Add VTO and fence station info; at VTH interface, bind VTH with VTO.

Step 1 Select "System Config >Project Settings".

The system pops up "Password" prompt box.

- Step 2 Enter the password set during initialization, and click [OK].
- Step 3 Click [Network]. The system displays "Network" interface, as shown in Figure 5-13.

₽		Project Settings		G
	Main_VTO Name	Main VTO		Product Info
	Device Type	Door Station		♦ Net Set
	VTO Middle No.	10116901		
VTO IP Address	172 . 26 . 7 . 42		🗟 Network 🛛 🔇	
	User Name	admin		PC Info
	Password	•••••		Search Device
	Network Port	13801		
- 8	Enable Status			Default
		OK		

Figure 5-13

Step 4 Enter main/sub VTO name, IP address, "User Name" and "Password". Meanwhile,

switch "Enable Status" to

Note Note

- Press left and right arrows to switch VTO setting tabs.
 To add a fence station, select device type and middle no. (fence station no.) and obtain IP address automatically. To add a VTO, middle no. will be obtained automatically as long as IP address is set.
- "User Name" and "Password" shall be consistent with WEB login user name and password of VTO. Otherwise, it will fail to connect.
- Step 5 Click [OK] to save the settings.

Debugging has been completed.

5.1.2 Batch Debugging

5.1.2.1 VTO Settings

For the first time, please initialize and modify login password.

D Note

Please ensure that default IP addresses of PC and VTO are in the same network segment. Default IP address of VTO is 192.168.1.110.

- Step 1 Connect VTO power and boot up.
- Step 2 Enter default IP address of VTO at the address bar of PC browser. The system displays "Setting" interface, as shown in Figure 5-14.

I	Device
	1 Setting 2 Protect 3 OK
	Username admin New Password
	Weak 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 ' v " v (v : v &)
	Next
Ste	Figure 5-14 p 3 Enter "New Password" and "Confirm", and click "Next". The system displays "Protect" interface, as shown in Figure 5-15. Note This password is used to login WEB interface. It shall be at least 8 characters, and sha
	include at least two types of number, letter and symbol.
0	Device
	Setting 2 Protect 3 OK
	Email (To reset password, please input properly or update in time)

Figure 5-15

Step 4 Select "Email" and enter your Email address.

This Email address is used to reset the password, so it is recommended that it should be set.

Step 5 Click "Next".

The system displays "OK" interface, as shown in Figure 5-16, and shows "Device succeed!"

Device				×
	1 Setting	2 Protect	Зок	
Device Succeed!				
Ok				

Figure 5-16

Step 6 Click "OK".

The system displays WEB login interface, as shown in Figure 5-17.

Door Station Web Server V1.0	
4	
9	Forgot Password?
Login	



Step 7 Enter user name and password, and click "Login". Log in the WEB interface of the device.

- Default user name is admin.
- Password is the one set during initialization.
- Step 8 Select "System Config > Network Config > TCP/IP".

The system displays "Network Settings" interface, as shown in Figure 5-18.

TCP/IP	FTP	Por	t	DD	NS	HTTPS Setting
_		-			_	
IP Address	172.26.7.42]			
Subnet Mask	255.255.0.0]			
Default Gateway	172.26.0.1]			
MAC Address	00:01:5b:00:	33:55				
DNS Address	8.8.8.8]			
SSH	🔿 On 🖉	Off				
	Default	Refresh	OK			

Figure 5-18

- Step 9 Enter the planned "IP Address", "Subnet Mask" and "Default Gateway", and click "OK". After modification is completed, VTO reboots automatically, while the following two cases occur at WEB interface.
 - If PC is in the planned network segment, WEB interface jumps to new IP login interface automatically.
 - If PC is not in the planned network segment, the webpage cannot be displayed. Please enter a new IP address in the browser.
- Step 10 Log in WEB interface again.
- Step 11 Select "System Config > LAN Config".

The system displays "LAN Config" interface, as shown in Figure 5-19.

LAN Config		
Building No.	01	
Building Unit No.	1	
VTO No.	6901	
Max Extension Index	5	Group Call
MGT Centre IP Address	10.34.6.102	Register to the MGT Centre
MGT Port No.	12801	
NoAnswer Transfer MGT Centre	 Enable 	Disable
	If extensionCount chang	eds reboot after modifing the config above. Jed,need reboot VTH and init VTH information again! Tesh OK OK

Figure 5-19

- 1. Enter VTO "Building No.", "Building Unit No." and "VTO No.".
- 2. Click "OK".
- Step 12 Select "System Config > Digital Indoor Station Manager". The system displays "Digital Indoor Station Manager" interface, as shown in Figure 5-20.

FamilyName	FirstName	Nick Name	Room No.	IP Address	Card No. Info	Modify	Delete
			9901	172.26.7.41		2	•
			101	0.0.0.0		2	•
			201	172.26.7.43		1	•

Figure 5-20

Step 13 Click "Add".

The system displays "Add" interface, as shown in Figure 5-21.

Add		×
FamilyName		
FirstName		
Nick Name		
VTH Short No.		*
IP Address		
	OK Cancel	

Figure 5-21

- 1. Enter VTH "Family Name", "First Name", "Nick Name", "VTH Short No." (VTH room no.) and "IP Address".
- 2. Click "OK".
- Step 14 Select "System Config >VTO Info".

The system displays "VTO Info" interface, as shown in Figure 5-22.

Main VTO	Vto	0.0.0.0	2
	Vto	0.0.0.0	2
	Vto	0.0.0.0	1
	Vto	0.0.0.0	2
	Vto	0.0.0.0	2
	Vto	0.0.0.0	2
	Vto	0.0.0.0	<u>/</u>
	Vto	0.0.0.0	2
	Vto	0.0.0.0	2
	Vto	0.0.0.0	1
	Vto	0.0.0.0	1
	Vto	0.0.0.0	1
	Vto	0.0.0.0	2
	Vto	0.0.0.0	1
	Vto	0.0.0.0	1
	Vto	0.0.0.0	1
	Vto	0.0.0.0	2
	Vto	0.0.0.0	1
	Vto	0.0.0.0	2
	Vto	0.0.0.0	

Figure 5-22

1. Click 🖄.

The system displays "Modify" interface, as shown in Figure 5-23.

Modify		×
VTO Name	Main VTO	
Device Type	Unit Door Station	
VTO Middle Number		
IP Address	0.0.0.0	
Username	admin	
Password	••••	
	Enable 📃	
	OK Cancel	

Figure 5-23

2. Enter "VTO Name", "VTO Middle Number" and "IP Address"; select "Device Type".

VTO middle number consists of "1+ Building No. + Unit No. + VTO No.". Building no. has 2 digits, unit no. has 1 digit, VTO no. has 4 digits, so middle number has 8 digits in total. For example, regarding 01 Building 1 Unit 6901, middle number is 10116901.

- 3. Select "Enable".
- 4. Click "OK" to add VTO info.
- Step 15 Select "System Config > IP Allocate Auto".

The system displays "IP Allocate Auto" interface, as shown in Figure 5-24.

IP Allocate Auto			
VTH IP Range	0.0.0.0	- 0.0.0.0	
Subnet Mask	255.255.0.0		
Default Gateway	192.168.0.1		
IP Allocate Auto	Enable O Enable		
	OK Refresh		
	Import Config Export Config		
	Warning:It must config first ,then s	start allocate IP auto!	
	Warning:it start after closing will c	lear the before records,please be car	eful!



- 1. Enter "VTH IP Range", "Subnet Mask" and "Default Gateway".
- 2. "IP Allocate Auto" selects "Enable".
- 3. Click [OK] to save the settings.

5.1.2.2 VTH Settings

Set the password and bind your Email.

- Password: it is used to enter project setting interface.
- Email: it is used to retrieve your password when you forget it.
- Step 1 Power on the device.

The system displays "Welcome" and enters "Initialization" interface, as shown in Figure 5-25.

	Device Init	
	na st	
Password		
Confirm Pwd:		
Email:		
	ОК	

Figure 5-25

- Step 2 Enter "Password", "Confirm Pwd" and "Email".
- Step 3 Click [OK].
 - The system displays "Info Init" interface, as shown in Figure 5-26.

	Info Init		×
Building No.	01		
Unit	1		
Room No.	9901	Master	
Master IP	0 . 0 . 0	. 0	
	ОК		

Figure 5-26

Step 4 Set VTH info.

• Be used as master VTH.

Enter "Building No.", "Unit" and "Room No." (such as 9901).

Note Note

"Room no." shall be the same with "VTH Short No.", which is set when adding VTH at WEB interface. Otherwise, it will fail to connect VTO.

- Be used as a VTH extension.
- 1. Press [Master] and switch to "Extension".
- 2. Enter "Building No.", "Unit" and "Room No." (such as 9901-1) and "Master IP" (IP address of master VTH).
- Step 5 Click [OK] to save the settings.

If initialization is successful, IP address of the bound VTH can be viewed at "Digital Indoor Station Manager" of VTO WEB interface, as shown in Figure 5-27.

	9901	172.26.7.41	2	•
	101	0.0.0.0	2	•
	201	172.26.7.43	1	•

Figure 5-27

5.2 Debugging Verification

5.2.1 VTO Calls VTH

Dial VTH room no. (such as 9901) at VTO, and thus call VTH. VTH pops up monitoring image and operating keys, as shown in Figure 5-28. It represents successful debugging.

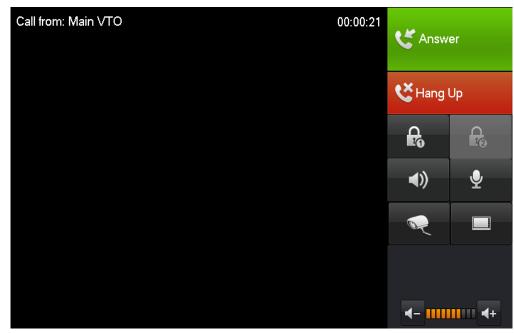


Figure 5-28

5.2.2 VTH Monitors VTO

VTH is able to monitor VTO, fence station or IPC. Take "IPC" for example.

Select "Video Talk > Monitor > Door Station", as shown in Figure 5-29. Select the VTO to enter monitoring image, as shown in Figure 5-30.



Figure 5-29

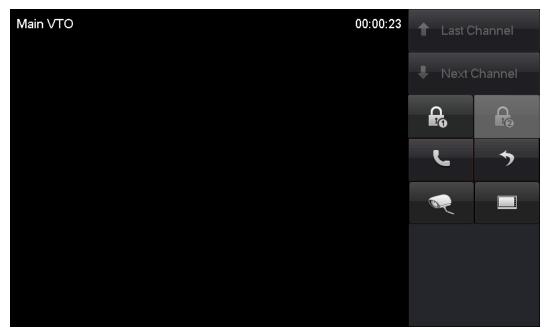
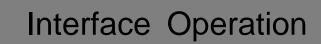


Figure 5-30



6.1 Main Interface

There are four items at the main interface, namely, video talk, security alarm, info search and settings, as shown in Figure 6-1. For description of every item, please refer to Table 6-1.



Figure 6-1

No.	Name	Description		
		• P: Network connection icon. It means network connection is normal.		
		• Main VTO connection icon. It means that the device fails to connect main VTO. Without this icon, it means that the device		
		connects main VTO successfully.		
1	Status Bar	• SD card icon. It means that SD card has been inserted into		
		the device. Without this icon, it means that SD card hasn't inserted or it doesn't support SD card.		
		• OND icon. It means that the device has enabled DND (do not		
		disturb) function. It is disenabled by default.		
		• 🖂 : Unread message icon. It means that there are unread		

No.	Name	Description
		messages.
2	Time Display	Display date, week and time.
3	Video Talk	 Call the user. Manage contacts. Set alarm output. Monitor VTO, fence station and IPC. View and manage call records. Call the Management Center with one key.
4	Security Alarm	 Set area type, status, delay time and area switch. View alarm records. Set arm mode.
5	Info Search	 View, delete and clear notice info issued by Property Management Center. View, delete and clear message info of VTO/VTH. View, delete and clear photo files and recording files.
6	Settings	 User setting. Project setting. Time setting. View product introduction. Device initialization.
7	Arm	Press this button to arm the area. Note Before using this button, please confirm that arm mode has been set. Otherwise, arm is invalid.

Table 6-1

6.2 Settings

6.2.1 User Settings

This function is used to set password, display, ring, talk, DND, local IPC and touch ring. Meanwhile, restore default user settings and clean the touch screen. Select "System Config > User Settings", as shown in Figure 6-2.



Figure 6-2

6.2.1.1 Password Settings

Set the user password, unlock password, arm/disarm password and anti-hijack password, which will be used during setting, unlock, arm/disarm and anti-hijack process.

Mote

User password is used to enter "SD Card", "Default" and "Area Settings" interfaces.

Step 1 Select "System Config > User Settings> Password".

The system displays "Password Settings" interface, as shown in Figure 6-3.

	Passw	ord S	Settings		×
User Pwd	Unlock Pwd	Arm/	Disarm P	wd Anti-hiji	ack Pwd
	Old Pwd:				
	New Pwd:				
	Confirm Pwd:				
	ОК			Cancel	

Figure 6-3

- Step 2 Click the tabs to select password type, such as "User Pwd".
- Step 3 Enter "Old Pwd", "New Pwd" and "Confirm Pwd".

Note Note

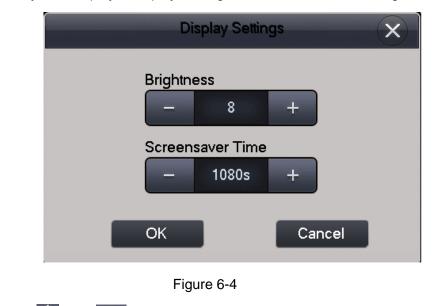
- Original user password and arm/disarm password is 123456.
- Unlock password doesn't have an original password.
- Original anti-hijack password is 654321.

Step 4 Press [OK] to complete password settings.

6.2.1.2 Display Settings

Set the brightness and screensaver time of touch screen.

Step 1 Select "System Config > User Settings> Display".
 The system displays "Display Settings" interface, as shown in Figure 6-4.



Step 2 Press and constraints and "Screensaver Time".Step 3 Press [OK] to complete settings.

6.2.1.3 Ring Settings

Set phone ring, ring volume, alarm ring, alarm volume and volume settings.

Step 1Select "System Config > User Settings> Ring".The system displays "Ring Settings" interface, as shown in Figure 6-5.



Step 2 Select rings in the text box, and press 🖬 and 📰 to set the volume.

6.2.1.4 Talk Settings

Set VTO or VTH ring time, talk time, monitor time and message time. Maximum VTH ring time is 120s, while maximum VTO message time is 90s.

Step 1 Select "System Config > User Settings> Talk".

The system displays "Talk Settings" interface, as shown in Figure 6-6.

Talk S	settings
VTO Ring Time	VTH Ring Time - 30s +
VTO Talk Time - 120s +	VTH Talk Time - 30m +
Monitor Time	Record Time - 30s +
VTO Message Time - 30s +	
ОК	Cancel



Step 2 Press 🖬 and 📰 to set the time.

- If VTO message time is not 0, when VTO calls VTH, and VTH doesn't answer, VTO will ask if you want to leave an image and a message.
- If VTO message time is 0, when VTO calls VTH, and VTH doesn't answer, VTO will hang up after VTH ring time comes to an end.

Step 3 Press [OK] to complete settings.

6.2.1.5 DND Settings

Set to avoid calls within a time period after the present time point.

Step 1 Select "System Config > User Settings> DND".

The system displays "DND Settings" interface, as shown in Figure 6-7.

	DND Settings	×
DND Time	0 H	
ОК		Cancel

Step 2 Select the time in the text box.

Step 3 Press [OK] to complete settings.

Note

- DND function is not enabled by default.
- After DND function is enabled, there is no ring in case of incoming calls. Missed calls can be viewed at "Video Talk> Records > Missed Call" interface.

6.2.1.6 Local IPC

Manage local 32-channel IPC, depending on different series of products. Please use according to actual conditions.

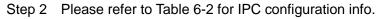
Step 1 Select "System Config > User Settings> Local IPC".

The system displays "Local IPC" interface, as shown in Figure 6-8.

- Press it is switch IPC adding interface.
- Press [Monitor] to monitor the added IPC.

	Local IPC	×
IPC1 Name		
IP Address	0.0.0.0	
User Name	admin	
Password	••••	
Port	554	>
Protocol	Local	
Stream	Extra	
Channel	1	IPC
Save	Monitor	

Figure 6-8



Parameter	Description				
IPC	 Press this key to select IPC, NVR, XVR and HCVR devices. By selecting IPC, VTH obtains video stream from the connected IPC directly, whose info shall be configured. By selecting NVR/XVR/HCVR, VTH obtains IPC video stream from these connected devices, whose info shall be configured. 				
IPC/NVR/XVR/HCVR Name	Enter IPC/NVR/XVR/HCVR name.				
IP Address	Enter IP address of the connected IPC/NVR/XVR/HCVR.				

User Name	Enter user name and password to log in			
Password	IPC/NVR/XVR/HCVRWEB interface.			
Port	Default port is 554.			
Protocol	It consists of local protocol and Onvif protocol. Please select the			
FIOLOCOI	protocol supported by the connected device.			
	 According to needs, select stream type, including main stream and extra stream. Main stream: large stream, high definition, large occupied 			
 Stream bandwidth, suitable for local storage. Extra stream: relatively smooth images, small oc bandwidth, suitable for low-bandwidth network transmission 				
Channel	If IPC device is connected, default channel is 1. If NVR/XVR/HCVR device is connected, it is set to be IPC channel no. at NVR/XVR/HCVR device.			

Table 6-2

Step 3 Press [Save] to complete adding local IPC.

6.2.1.7 Clean

Lock the screen to facilitate cleaning.

- Step 1 Select "System Config > User Settings> Clean". The screen is locked for 10s.
- Step 2 Start to clean the screen. It returns to normal after 10s.

6.2.1.8 SD Card

Note Note

- This option is displayed only when SD card is inserted.
- Verification password to enter SD card settings interface is "User Password" 123456.
 Please refer to "6.2.1.1 Password Settings" to modify it.
- Step 1 Select "System Config > User Settings> SD Card". Pop up "Password Verification" prompt box.

Step 2 Enter user password and press [OK]. The system displays "SD Card" interface to view its free space, or press [Format] to format SD card.

6.2.1.9 Default

All configuration info at user setting interface can be restored to factory defaults.

Step 1 Select "System Config > User Settings> Default".

Pop up "Password Verification" prompt box.

Step 2 Enter user password and press [OK].

The system displays "Default" interface.

Note Note

Default user password is 123456. Please refer to "6.2.1.1 Password Settings" for details.

Step 3 Press [OK] to restore defaults.

6.2.1.10 Touch Ring

Press **WOFF** to turn on or turn off the touch ring. ON means that touch ring is turned on, whereas OFF means that touch ring is turned off.

6.2.1.11 Auto Capture

Note Note

This option is displayed only when SD card is inserted.

Press **WOFF** to turn on or turn off auto capture function. ON means that auto capture is turned on, whereas OFF means that auto capture is turned off. When VTO calls VTH but VTH doesn't answer, 3 pictures will be captured automatically, and can be viewed in "Info Search> Video Pictures" interface.

6.2.2 Project Settings

6.2.2.1 Forget Password

If you forget initialization password when entering project settings interface, reset password through "Forget Password" at the interface or in VDPconfig tool.

6.2.2.1.1 Reset the Password at the Interface

- Step 1 Select "System Config > Project Settings". Pop up "Password Verification" prompt box.
- Step 2 Press [Forget Password].

The system displays "Reset the password" interface, as shown in Figure 6-9. \square Note

"Redraw" is used to refresh QR code.

Ð	Reset the password	<u>}</u>
	Redraw	<
	Redraw Password	js
	Password Confirm Pwd: Security code OK	
	Security code	
	ОК	



- Step 3 Scan the QR code with any code-scanning APP, bind your mobile phone, send the scanning results to 10690546980662 with short message, and thus obtain security code.
- Step 4 Enter "Password", "Confirm Password" and obtained "Security Code".
- Step 5 Press [OK] to complete resetting the password.

6.2.2.1.2 Reset the Password in VDPconfig

Use VDPconfig tool to export XML file (ExportFile.xml), send it by email to support_cpwd@htmicrochip.com, and obtain XML file (result.xml). then, import the file and reset a new password.

Note Note

Please refer to "VDPconfig Help Document" for details.

6.2.2.2 Product Info

Set VTH info, SSH function and mobile phone info.

- Step 1 Select "System Config > Project Settings".
 - Pop up "Password Verification" prompt box.
- Step 2 Enter the password set during device initialization, and press [OK].
- Step 3 Press [Product Info].

The system displays "Product Info" interface, as shown in Figure 6-10.

ģ	ļ	Project	Settings	â	
	Room No.	9901	Master	Product Info	<
	Master IP	0.0.0.0		∢> Net Set	
	Version	General_Eng_P		- 	Ĩ
		V3.120.0000.0.R.20170	804	Detwork	
	User Name	admin		IPC Info	
	Password			Search Device	
	SSH			Default	
		ОК	Reset MSG		

Figure 6-10

6.2.2.2.1 Set VTH Info

Step 1 Set VTH info.

Be used as master VTH. Enter "Room No." (such as 9901).

Note Note

"Room no." shall be the same with "VTH Short No.", which is set when adding VTH at WEB interface. Otherwise, it will fail to connect VTO.

- Be used as a VTH extension. •
- Press [Master] and switch to "Extension". 1.
- 2. Enter "Room No." (such as 9901-1) and "Master IP" (IP address of master VTH). Note Note

"User Name" and "Password" are the user name and password of master VTH. Default user name is admin, and the password is the one set during device initialization.



Step 2 Press to turn on or turn off SSH.

Step 3 Press [OK] to complete setting.

6.2.2.2.2 Reset MSG

Press [Reset MSG], enter a "New Mobile Phone No." and press [OK]. It is reset successfully. Note Note

The mobile phone is used to obtain security code during password resetting. Please refer to "6.2.2.1 Forget Password" to reset the password.

6.2.2.3 Network Settings

Set VTH network info, which supports static IP and DHCP.

Note Note

IP addresses of VTH and VTO shall be in the same network segment. Otherwise, VTH will fail

to obtain VTO info after configuration.

Step 1 Select "System Config >Project Settings".

The system pops up "Password" prompt box.

- Step 2 Enter the password set during initialization, and click [OK].
- Step 3 Click [Net Set].

The system displays "Net Set" interface, as shown in Figure 6-11.

Ð	Project Settings			
			Product Info	
	 Static IP 	DHCP	♦ Net Set	
Local IP	172 . 26 . 7	41		
Subnet	Mask 255 . 255 . 0	. 0	교 Network	
Gatewa	y 172 26 0	. 1	"IPC Info	
MAC	90:02:a9:80:aa:11		Search Device	
			Cearch Device	
			Oefault	
	OK			

Figure 6-11

- Step 4 Set according to actual network access mode.
 - Static IP
 - 1. Select "Static IP".
 - 2. Enter "Local IP", "Subnet Mask" and "Gateway".
 - DHCP

Select "DHCP" to obtain IP address automatically.

Step 5 Click [OK] to save the settings.

6.2.2.4 Network Terminal

Bind network VTO and fence station.

- Step 1 Select "System Config >Project Settings". The system pops up "Password" prompt box.
- Step 2 Enter the password set during initialization, and click [OK].
- Step 3 Click [Network].

The system displays "Network" interface, as shown in Figure 6-12. Press or to page up and down.

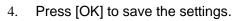
₽		Project Settings	â
	Main_VTO Name	Main VTO	Product Info
	Device Type	Door Station	∢> Net Set
	VTO Middle No. VTO IP Address User Name Password	10116901	
<		172 . 26 . 7 . 42	🗟 Network 🛛 🔇
		admin	PC Info
		•••••	Search Device
	Network Port	13801	
ends.	Enable Status		🚯 Default
		ОК	

Figure 6-12

- Add VTO
- Enter main/sub VTO name, IP address, "User Name" and "Password".
 Note
 - Select device type of sub VTO, which is "Door Station" by default.
 - "User Name" and "Password" shall be consistent with WEB login user name and password of VTO. Otherwise, it will fail to connect.
- 2. Switch "Enable Status" to



- Add fence station.
- 1. Enter VTO name, "VTO Middle No." (fence station no.), "User Name" and "Password".
- 2. Select device type as "Fence Station".
- 3. Switch "Enable Status" to



6.2.2.5 IPC Info

VTH automatically synchronizes IPC info added in VTO WEB, and monitors designated IPC. It is able to synchronize 24 IPCs at most.

- Step 1 Select "System Config >Project Settings". The system pops up "Password" prompt box.
- Step 2 Enter the password set during initialization, and click [OK].
- Step 3 Click [IPC Info].

The system displays "IPC Info" interface to view IPC info.

6.2.2.6 Search Device

Search online devices in the same network segment with VTH, add, modify IP and delete it.

After adding successfully, this VTO can call VTH.



Support to modify IP address of villa VTO, rather than IP address of unit VTO.

Step 1 Select "System Config >Project Settings".

The system pops up "Password" prompt box.

- Step 2 Enter the password set during initialization, and click [OK].
- Step 3 Click [Search Device].

The system displays "Search Device" interface, as shown in Figure 6-13.

₽		Project Settings	
			🖬 Product Info
	172.26.6.199	00:00:23:34:45:66	∢> Net Set
。 背	172.26.6.181	00:01:57:44:23:78	☐ Network
	172.26.7.42	00:01:5b:00:33:55	PC Info
an a	172.26.7.214	00:12:33:55:78:9a	
	172.26.6.46	3c:ef:8c:07:b1:9e	📓 Search Device <
	<u> </u>	5 6 7 8	Oefault
	Refresh Add	Modify IP Delete	

Figure 6-13

6.2.2.6.1 Search Device

Press [Refresh] to refresh device list; press **t** to view the device.

6.2.2.6.2 Modify IP

Step 1 Select the needed VTO and press [Modify IP].

If "Modify IP" is gray, it means that this device is unit VTO whose IP cannot be modified.

	Modify VTO IP
Master IP	172 . 26 . 6 . 46
Subnet Mask	255 . 255 . 0 . 0
Gateway	172 . 26 . 0 . 1
MAC	3c:ef:8c:07:b1:9e
User Name	admin
Password	•••••
	OK Cancel



- Step 2 Fill in "Master IP", "Subnet Mask" and "Gateway" of the VTO.
- Step 3 Press [OK] to save the settings.

6.2.2.6.3 Add Manually

Step 1 Select the needed VTO and press [Add]. The system displays "Add VTO" interface, as shown in Figure 6-15.

	Add VTO	×
Name	Main VTO	
Channel	Vto00	
Mid Num	10116901	
IP	172.26.7.42	>
Port	554	
State	On	
Searched IP	172.26.6.46	
User Name	admin	
Password	••••	
	ОК	

Figure 6-15

Step 2 Enter "VTO Name", "Channel", "IP" and "Port" (default port is 554), and set "Status" to be "On".

If this VTO is a sub VTO, press **t** to page down and set.

Step 3 Press [OK] to complete configuration.

After successful configuration, this VTO can call VTH.

6.2.2.7 Default

All parameters of the device, except IP address, can be restored to initial default values.

- Step 1 Select "System Config > Project Settings".
 - The system pops up "Password" prompt box.
- Step 2 Enter the password set during initialization, and click [OK].
- Step 3 Click [Default].

The system displays "Default" interface.

Step 4 Press [OK].

The device reboots and enters initialization interface, representing successful restoration.

6.2.3 Time Setting

Set system date and time. The system will synchronize the time to VTO.

Step 1 Select "System Config > Time".

The system displays "Time" interface, as shown in Figure 6-16.

₽		Settings	â
			C User Settings
			A Project Settings
	System Date	2017 - 10 - 25	츊 Time 🛛 <
			⑦ Introduction
	Time	19 : 19 : 36	
		ОК	😎 Info Init

Figure 6-16

- Step 2 Set system date and time.
- Step 3 Press [OK] to save the settings.

6.2.4 Product Introduction

Display product introduction, feature, brief instruction and FAQ.

Step 1 Select "System Config > Introduction".

The system displays "Introduction" interface, as shown in Figure 6-17.





6.2.5 Info Initialization

This function applies to connect VTO, including unit VTO, configures master/extension VTH info quickly and realizes call.



Please ensure that the following operations have been completed.

- Every door has VTO no. and info.
- WEB of a unit VTO has configured VTO info and VTH network segment. It is enabled.

Step 1 Select "System Config > Info Init".

The system displays "Info Init" interface, as shown in Figure 6-18.

	Info Init		×
Building No.	01		
Unit	1		
Room No.	9901	Master	
Master IP	0.0.0	. 0	
	ОК		

Step 2 Set VTH info.

• Be used as a master VTH.

Enter "Building No.", "Unit" and "Room No." (such as 9901).

Note Note

"Room no." shall be the same with "VTH Short No.", which is set when adding VTH at WEB interface. Otherwise, it will fail to connect VTO.

- Be used as a VTH extension.
- 1. Press [Master] and switch to "Extension".
- 2. Enter "Building No.", "Unit", "Room No." (such as 9901-1) and "Master IP" (IP address of master VTH).

Step 3 Click [OK] to save the settings.

After successful initialization, view IP address of the bound VTH at "Digital Indoor Station Manager" at WEB interface of VTO.

$6.3 \; \text{Video Talk}$

6.3.1 Call User

Call the user, manage contact, set alarm output and internal call.

Select "Video Talk> Call User", as shown in Figure 6-19.



Figure 6-19

6.3.1.1 Contact

Add and edit VTH and extension number.

Press to enter contact management interface, as shown in Figure 6-20.

ф —	Contact	×
		<
		s)
	Call Add Edit Delete All	

Figure 6-20

6.3.1.1.1 Add User

Step 1 Press [Add] or blank table cell.

The system displays "User Info" interface, as shown in Figure 6-21.

₽	Contact	
	User Info X	<
	Last Name	2)
	First Name	3)
	Room No.	
	(e.g.xx-x-xxxx,xxxx,-x)	
	Save Cancel	
	Call Add Edit Delete Delete All	



- Step 2 Enter "Last Name", "First Name" and "Room No." of contact person.
- Step 3 Press [Save] to complete adding. The added user info is shown in Figure 6-22.

<u>ل</u>		Contact		×	
					<
	thomas ron 101				
					3)
		1			
	Call Ad		Delete	Delete All	
					J

Figure 6-22

6.3.1.1.2 Modify Contact Info

Select the contact person, press [Edit] to modify the info.

6.3.1.1.3 Delete Contact Person

Select the contact person, press [Delete] to delete the contact person.

6.3.1.1.4 Delete All

Press [Delete All], press [OK] at the popped-up "Info Prompt" interface and delete the info about all contact persons.

6.3.1.2 Internal Call

After enabling internal call function, VTH can call each other.

Step 1 Select "Video Talk> Call User".

Step 2 Press on to turn on or turn off internal call function.

6.3.1.3 Alarm Output

After enabling alarm output, when other devices call this VTH, the alarm output device will output alarm info.

Step 1 Select "Video Talk> Call User".

Step 2 Press ot turn on or turn off alarm output function.

6.3.1.4 Call User

Note Note

- Make sure that internal call function has been enabled. Please refer to "6.3.1.2 Internal Call" for details.
- Call function is used by VTH to call VTH.
- If both VTHs have a camera, bilateral video call can be provided.

6.3.1.4.1 Dial and Call User directly

At "Call User" interface, dial and call the user.

- Step 1 Select "Video Talk> Call User".
- Step 2 Enter the user's room no. (VTH room no.).

Note Note

- To call Building 1 Unit 1 Room 9901, please enter room no.: 1-1-9901.
- If master VTH (9901) calls extension (9901-1), please enter room no.: -1; if the extension calls master VTH (9901), please enter room no.: 9901.

Step 3 Press boot to start.

The system displays calling interface, as shown in Figure 6-23. After the user answers the call, both parties talk to each other, as shown in Figure 6-24. For interface key description, please refer to Table 6-3.

Note Note

If VTH owns a camera, there will be videos after answering the call.



Figure 6-23

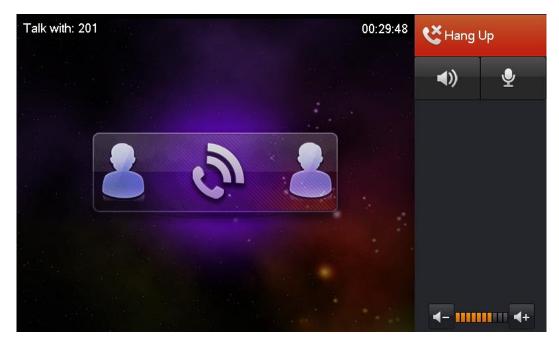


Figure 6-24

6.3.1.4.2 Call User in Contact

 Caution

 Please add contact persons to the contact, by reference to "6.3.1.1.1 Add User".

 Step 1
 Select "Video Talk> Call User".

 Step 2
 Press

 Image: Step 3
 Select the user you want to call, press [Call] and start.

6.3.2 Call from User

When another VTH calls this VTH, the call interface will be displayed, as shown in Figure 6-25. Press [Answer] to talk with each other, as shown in Figure 6-26. For interface key description, please refer to Table 6-3.



Figure 6-25



Figure 6-26

6.3.3 Call from VTO

- Step 1 Dial VTH room no. (such as 9901) at VTO, to call VTH. VTH pops up monitoring picture, as shown in Figure 6-27.
- Step 2 At VTH interface, press [Answer]. Answer the call and talk with each other. For key description, please refer to Table 6-3.

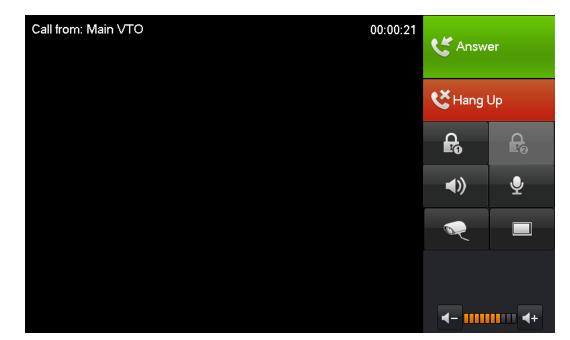


Figure 6-27

Кеу	Description		
Answer	Press this key to answer the call and talk with each other.		
Hang up	Press this key to hang up.		
	Press this key to unlock the VTO remotely.		
4	Note		
L O	The system provides 2-channel unlock function. If the icon is gray, it means		
	that unlock function of this channel is not available.		
	This key means that voice of the opposite end device can be heard.		
()	Press this key to prohibit monitoring voice of the opposite end; press it again to		
	switch back to monitoring status.		
.	This key means to talk with the opposite end device.		
x	Press this key to prohibit talking; press it again to switch back to talking status.		
R	Press this key to select IPC that shall be monitored.		
	During IPC monitoring, press this key to switch to monitor VTO.		
- -	Press this key to reduce volume.		
	Press this key to increase volume.		

Table 6-3

6.3.4 SOS



Please ensure that Management Center has been connected; otherwise, it is impossible to call.

In case of emergencies, press SOS key th on the front panel, or press Call Center at "Video Talk" interface to call the Management Center, as shown in Figure 6-28. For key description, please refer to Table 6-3.



Figure 6-28

6.3.5 Records

View and manage the missed call, accepted call and called records of this VTH. Meanwhile, call back and save info about the contact persons.

Select "Video Talk > Records", as shown in Figure 6-29.

Note Note

- If there is a call key 🕗 on the front panel, press this key to enter records interface.
- If contact person is VTO, callback and saving are not available.

Ð		Video Ta	ılk	4	â
	Missed Call	Accepted Call	Called	🖣 Call	User
	🌜 Main VTO	2017-10-25	5 04:56:10	Мо	hitor
				e Rec	ords (🖂) <
		0		Sa Ca	ll Center
	Call	Save Delete	Delete All		

Figure 6-29

6.3.5.1 Callback

Select the required VTH record, press [Call] to call the contact person.

6.3.5.2 Save

Select a record, press [Save] to enter "Last Name", "First Name" and "Room No.", and save this number to the contact.

6.3.5.3 Delete

Select a record, press [Delete] to delete it.

6.3.5.4 Delete All

Press [Delete All] to delete all records in the tab.

6.3.6 Monitor



Please confirm user name and password in VTH, which are set when adding VTO. They shall be consistent with WEB login user name and password of VTO. Otherwise, it will fail to obtain videos during monitoring.

VTH is able to monitor VTO or fence station. Under the condition of monitoring, press call key

 \sim on the front panel to talk to VTO. VTO will pick up the call automatically.

Take "Monitoring of VTO" as an example.

Step 1 Select "Video Talk > Monitor> Door Station ", or press monitoring key and the front panel.

The system displays the list of added VTO, as shown in Figure 6-30.



Figure 6-30

Step 2 Select VTO that shall be monitored.

The device enters monitoring, as shown in Figure 6-31. For relevant monitoring operations, please refer to Figure 6-31.

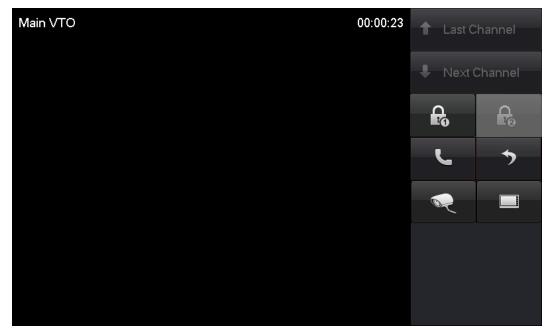


Figure 6-31

Кеу	Description				
Last Channel	Press this key to switch the terminal device; realize circulatory				
Next Channel	monitoring.				
Æ	Press this key to unlock VTO remotely.				
د	Press this key to talk with the VTO.				

Кеу	Description			
5	Press this key to return to previous menu.			
Press this key to select the IPC that shall be monitored.				
	During IPC monitoring, press this key to switch to monitor VTO.			
Table 6-4				

6.4 Security Alarm

6.4.1 Area Settings

VTH supports 8-channel alarm areas, and sets area type, current status and delay time.

Alarm area can be set only in disarm status.

Select "Security Alarm > Area Status", as shown in Figure 6-32.

		Security Alarm		
Area No.	Area Type	Current Status	Delay Time	🖗 Area Status 🛛 🔇
Area 1	Urgency Btn	Instant Alarm	0S/0S	
Area 2	Gas Sensor	Instant Alarm	0S/0S	📋 Records
Area 3	Smoke Sensor	Instant Alarm	0S/0S	E
Area 4	IR	Instant Alarm	0S/0S	Mode Settings
Area 5	IR	Instant Alarm	0S/0S	
Area 6	IR	Instant Alarm	0S/0S	
Area 7	IR	Instant Alarm	0S/0S	
Area 8	IR	Instant Alarm	0S/0S	
Set	ting Bypass	Remove	Refresh	

Figure 6-32

6.4.1.1 Area Settings

Step 1 Press [Setting].

The system pops up "Password" prompt box.

Step 2 Enter user password to enter area setting interface, as shown in Figure 6-33.

2	IR D	Area Se	ttings		×	
Area No.	Gas Sensor	NO/NC	Alarm	Enter Delay	Exit Delay	
Area 1	Smoke Sensor	NO	Instant Alarm	0S	0S	I
Area 2	Urgency Btn	NO	Instant Alarm	0S	0S	
Area 3	Door Sensor	NO	Instant Alarm	0S	0S	ł
Area 4	IR	NO	Instant Alarm	0S	0S	
Area 5	IR	NO	Instant Alarm	0S	0S	
Area 6	IR	NO	Instant Alarm	0S	0S	
Area 7	IR	NO	Instant Alarm	0S	0S	
Area 8	IR	NO	Instant Alarm	0S	0S	
	0	К	Cancel			

Figure 6-33

Step 3 According to Table 6-5, set area type, NO/NC, alarm, enter delay and exit delay at corresponding positions.

Parameter	Description					
Area No.	Area no. cannot be modified.					
	NO/NC Select NO or NC according to detector type, which sha					
NO/NC	detector type.					
	According to detector type in every area, select					
Area Type	corresponding area type, including IR, gas sensor, smoke					
	sensor, urgency button, door sensor, steal alarm,					
	perimeter and doorbell.	\sim				
	It consists of instant alarm, delay alarm, bypass and	Note Note				
	remove.	Type and alarm				
	• Instant alarm: in case of alarm after arm, produce	status of Area 1 \sim				
	alarm sound at once and enters alarm status.	Area 3 shall keep				
Alarm	• Delay alarm: in case of alarm after arm, enter alarm	system defaults and				
	status after some time. Within the time period, you	cannot be set.				
	can disarm and cancel the alarm.					
	• Bypass: this area is shielded from this arm. After					
	disarm, this area will restore normal working status.					
	Remove: this area is invalid during arm/disarm.					
	After entering delay, when armed area triggers an alarm,					
Enter Dolov	entering armed area from non-armed area within the					
Enter Delay	delay time period will not lead to linkage alarm. Linkage alarm will be produced if delay time comes to an end and	\square				
	it is not disarmed.	Note Note				
	After arm, "delay alarm" area will enter arm status at the	Delay is only valid to the areas of				
	end of "exit delay".					
Exit Delay	Note	"delay alarm".				
	If multiple areas set the exit delay, interface prompt will					
	conform to maximum delay time.					

Step 4 Press [OK] to complete setting.

6.4.1.2 Bypass



- Area 1 \sim Area 3 cannot be bypassed.
- Area in "Remove" status cannot be bypassed.

Select an area, press [Bypass] and the current status becomes "Bypass". This area will be shielded during arm, and restore normal working status after disarm.

6.4.1.3 Remove



Area 1 \sim Area 3 cannot be removed.

Select an area, press [Remove] and the current status becomes "Remove". This area will be invalid during arm and disarm.

6.4.1.4 Refresh

Press [Refresh] to refresh settings of 8 areas.

6.4.2 Mode Settings

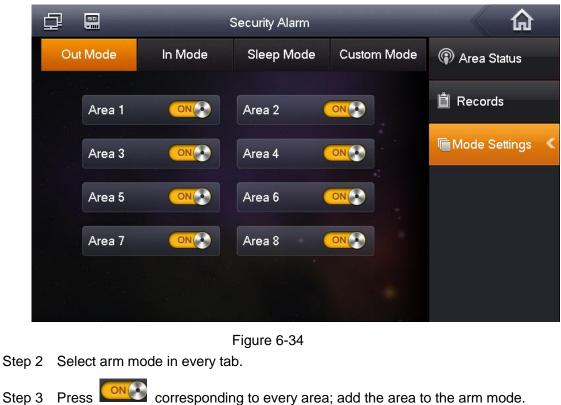


Area mode can be set only in disarm status.

Add the areas to corresponding mode, arm and disarm uniformly.

Step 1 Select "Security Alarm > Mode Settings".

The system displays "Mode Settings" interface, as shown in Figure 6-34.



Multiple areas can be added into one arm mode simultaneously.

6.4.3 Alarm Records

When the alarm is triggered, the device emits alarm sound for 15s and pops up alarm prompt interface, as shown in Figure 6-35. Meanwhile, upload the alarm info to alarm record interface and management platform.





Under normal conditions, select "Security Alarm > Records", as shown in Figure 6-36. View alarm messages. Means that this message is not read yet.

- Select one message and press [Delete] to delete it.
- Press [Delete All], confirm and delete all records.

₽		Security Alarm			
	NO.	Occurrence Time	Area No.	Event	Area Status
×	01	2 mins ago	Area 8	IR	- · · · · · · · · · · · · · · · · · · ·
	02	2 mins ago	Area 8	IR	Ê Records (⊠) <
					Mode Settings
		Delete	elete All		

Figure 6-36

6.5 Info Search

6.5.1 Publish Info

Select "Info Search > Publish Info", as shown in Figure 6-37. View, delete and delete all info released by Property Management Center.

Note Note

If VTH owns info indicator light, the info light will turn on when receiving info from Property Management Center, and will turn off after it is read by the user.

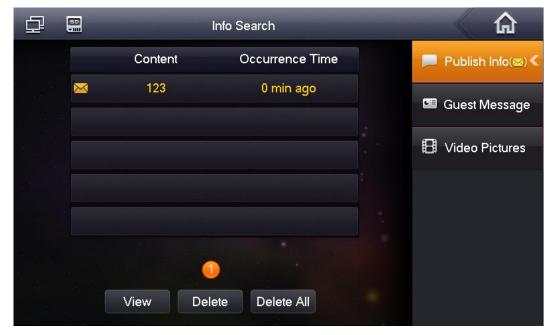


Figure 6-37

6.5.2 Guest Message

Select "Info Search > Guest Message", as shown in Figure 6-38. View, delete and delete all messages of VTO/VTH.

Ð			Info Search	
	NO.	Position	Occurrence Time	Publish Info(🖂)
	01.	Main VTO	0 min ago	💷 Guest Message 🕻
				H Video Pictures
		View De	lete Delete All	

Figure 6-38

6.5.3 Video Pictures

6.5.3.1 Records

Step 1 Select "Info Search > Video Pictures".

Step 2 Select "Records" tab.

The system displays "Records" interface, as shown in Figure 6-39.

- Select a file and press [View] to view it.
- Select a file and press [Delete] to delete it.
- Press [Delete All] to delete all files.

₽			Info	Search	â
		Reco	rds	Pictures	Publish Info(🖂)
	01. Maii	n VTO		0 min ago	🖼 Guest Message
数 24 24					🗄 Video Pictures <
			0		
		View	Delete	Delete All	

Figure 6-39

6.5.3.2 Pictures

Step 1 Select "Info Search > Video Pictures".

Step 2 Select "Pictures" tab.

The system displays "Pictures" interface, as shown in Figure 6-40.

- Select a file and press [View] to view it.
- Select a file and press [Delete] to delete it.
- Press [Delete All] to delete all files.

₽	50	Info Search		
	Records	Pictures	Publish Info(🖂)	
	01. Main VTO	0 min ago	🖼 Guest Message	
	02. Main VTO	0 min ago		
	03.	2015-10-09 11:45:54	🗄 Video Pictures <	
	04.	2015-10-09 11:45:53		
	05.	2015-10-09 11:45:52		
	1 2 3 4 View D	5 6 7 8 9 Delete All		

Figure 6-40

6.6 Unlock Function

When the VTH is being called, during monitoring and calling status, press exit button, and the VTO will be unlocked remotely.

6.7 Arm and Disarm Function

6.7.1 Arm



- Please ensure that the area has been added into arm mode. Otherwise, there will be no alarm triggering after arm.
- Please ensure that it is in disarmed status. Otherwise, arm will fail.

In case of triggering alarm after arm, produce linkage alarm and upload alarm info.

Step 1 Press at the lower right corner of the main interface. The system displays arm mode, as shown in Figure 6-41.

	9901
Cct 25 Wed	
	⇔ Out ≝_ In
Video Talk Security Alarm Info Search Se	🍤 Sleep
	🖶 Custom
	📁 Arm



Step 2 Select arm mode.

The system displays password input interface.

Step 3 Enter arm and disarm password; press [OK].

The device beeps continuously, which represents successful arm. The key displays corresponding arm mode.

Note Note

Default password of arm and disarm is 123456. Please refer to "6.2.1.1 Password Settings" for details.

6.7.2 Disarm



Please ensure that it is in armed status. Otherwise, disarm will fail.

Step 1 Press disarm symbol at the lower right corner of the main interface. The system displays password input interface.

Step 2 Enter arm and disarm password; press [OK].

The system displays successful disarm.

Note Note

- Default password of arm and disarm is 123456. Please refer to "6.2.1.1 Password Settings" for details.
- If you are forced to enter disarm password in case of emergencies, enter anti-hijacking password. The system will disarm, and at the same time, upload alarm info to Management Center/Platform. Default anti-hijacking password is 654321. Please refer to "6.2.1.1 Password Settings" for details.

Appendix 1 Technical Parameters

Appendix 1.1 VTH5222CH

Model		VTH5222CH		
Sustan	Main Processor	Embedded microcontroller		
System	Operating System	Embedded LINUX Operating System		
	Video			
	Compression	H.264		
Video	Standard			
	Video Resolution	800×480		
	Front Camera	None		
	Input	Omnidirectional microphone		
Audio	Output	Built-in speaker		
	Talk	Support two-way audio talk		
Display	Screen Size	7-inch TFT color screen		
Operating	Innut	Touch key (SOS, menu, call, monitor and unlock), touch		
Mode	Input	screen technology		
Alorm	Alarm Input	Support 6-channel alarm input		
Alarm	Alarm Output	Support 1-channel alarm output (dry contact)		
	Ethernet	10M/100Mbps self-adaptive		
Network	Network Protocol	TCP/IP		
	Wi-Fi	Not supported		
	Power Supply	Direct power supply from private exchange		
	Power	Standby <1 510/1 working <710/		
Specification	Consumption	Standby ≤1.5W; working ≤7W		
	Working	-10℃~+55℃		
	Environment	10%RH~90%RH		
	Size (Length× Width × Height)	200mm×136mm×22mm		
	Weight	0.8kg		

Appendix 1.2 VTH15 Series Type A/B/CH

Model		VTH15 Series Type A	VTH15	Series	Туре	VTH15	Series	Туре
		VIIII Joenes Type A	B(W)			СН		
System	Main Processor	Embedded microcontroller						
System	Operating System	Embedded LINUX Operating System						

	Video					
	Compressio	H.264				
	n Standard					
Video	Video Resolution	800×480				
	Front Camera	Only VTH1520CH supports front camera, 300,000 pixels				
	Input	Omnidirectional microph	none			
Audio	Output	Built-in speaker				
	Talk	Support two-way audio	talk			
Display	Screen Size	7-inch TFT color screen				
Operating Mode	Input	Mechanical key (SOS, menu, call, monitor and unlock), touch scree technology				
Alarm	Alarm Input/output	 For VTH15 series type A/type B and VTH1550 CHM,alarm in/out: 8/0; For VTH15 series type CH, alarm in/out: 6/1. 				
	Ethernet	10M/100Mbps self-adaptive				
Network	Network Protocol	TCP/IP				
	Power Supply	DC10V – 15V or direct power supply from private exchange				
	Power Consumptio n	Standby ≤1.5W; working ≤7W				
Specificatio	Working	-10℃~+55℃				
n	Environment	10%RH~90%RH				
	Size					
	(Length×	221mm×154mm×25m	221mm×154mm×25m	200mm×136mm×22m		
	Width ×	m	m	m		
	Height)					
	Weight	0.8kg				

Appendix 1.3 VTH16 Series

Model		VTH1660CH		
	Main Processor	Embedded microcontroller		
System	Operating			
	System	Embedded LINUX Operating System		
	Video			
	Compression	H.264		
Video	Standard			
	Video Resolution	800×480		
	Front Camera	None		
Audio	Input	Omnidirectional microphone		
	Output	Built-in speaker		

Model		VTH1660CH		
	Talk	Support two-way audio talk		
Display	Screen Size	10.2-inch TFT color screen		
Operating	Input	Touch acroon technology		
Mode	Input	Touch screen technology		
Alarm	Alarm Input	6-channel		
Alaini	Alarm Output	1-channel		
Network	Ethernet	10M/100Mbps self-adaptive		
INELWOIK	Network Protocol	TCP/IP		
	Power Supply	DC10V – 15V or direct power supply from private		
	Power Supply	exchange		
	Power	Standby <1 EW: working <7W		
	Consumption	Standby ≤1.5W; working ≤7W		
Specification	Working	-10℃~+55℃		
	Environment	10%RH~90%RH		
	Size (Lengthx	260mmu180mmu22 7mm		
	Width × Height)	260mm×189mm×22.7mm		
	Weight	0.8Kg		

Appendix 1.4 VTH2221A

Model		VTH2221A		
	Main Processor	Embedded microcontroller		
System	Operating System	Embedded LINUX Operating System		
Video	Video Compression Standard	H.264		
	Video Resolution	800×480		
	Front Camera	None		
	Input	Omnidirectional microphone		
Audio	Output	Built-in speaker		
	Talk	Support two-way audio talk		
Display	Screen Size	7-inch TFT color screen		
		Mechanical key (SOS, menu, call, monitor and unlock), touch screen technology		
Alexes	Alarm Input	Support 6-channel local alarm input		
Alarm	Alarm Output	Reserve 1-channel local alarm output		
Network	Ethernet	10M/100Mbps self-adaptive		
Network	Network Protocol	TCP/IP		
Specification	Power Supply	DC10V – 15V or direct power supply from private exchange		
	Power	Otomather of EVAL working of TAL		
	Consumption	Standby ≤1.5W; working ≤7W		
	Working	-10℃~+55℃		

Model			VTH2221A
Environment		nent	10%RH~90%RH
	Size	(Lengthx	220mm×153mm×22.5mm
	Width × H	Height)	22011111 13311111 22.31111
	Weight		0.8kg