Digital VTH (Version 4.0)

Quick Start Guide

Please scan the QR code to read the user's manual.

V1.0.1

1.2.51.32.13032-001

Preface

Overview

This document mainly introduces structure, installation process, debugging and verification process of digital VTH products.

Device Upgrade

Please don't cut off power supply during device upgrade. Power supply can be cut off only after the device has completed upgrade and has rebooted.

Symbol Definition

The following symbols may appear in the document. Please refer to the table below for the respective definition.

Symbol	Note
DANGER	It indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
WARNING	It indicates a moderate or low level of potential danger which, if not avoided, could result in minor or moderate injury.
CAUTION	It indicates a potential risk that, if ignored, could result in damage to device, loss of data, degraded performance, or unpredictable results.
ESD	It means electrostatic–sensitive device.
LASER BEAM	It means intensive laser radiation.
ELECTRICITY	It means high–voltage danger.
TIPS	It means that it can help you to solve some problems or save your time.
NOTE	It means the additional information, which is to emphasize or supplement.

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

- The product shall use electric wires (power wires) recommended by this area, which shall be used within its rated specification!
- 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.
- Appliance coupler is a disconnecting device. During normal use, please keep an angle that facilitates operation.

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.

1 Product Structure

1.1 Front Panel

Different models of devices may have different front panel dimensions and key types, but keys or indicators with the same silkscreen or icon have the same function. Please refer to Table 1–1 for details.

Icon or Silkscreen	Name	Description
	SOS	Press this key to call the Call Center in case of emergency.
	Menu	Press this key to return to main menu.
	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 unit 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.
	Unlock	In case of incoming call, talk, monitoring and speaking of VTO, press this key to unlock corresponding VTO.
	Message indicator	If this indicator turns on, it represents that there are unread messages.
	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.
DND	DND indicator	If this indicator turns on in green, it represents that DND function is enabled. NOTE For DND settings, please scan QR code on the front cover, and refer to the user's manual.

Table 1–1

1.2 Rear Panel Port

1.2.1 VTH5221 Series /VTH5241 Series

VTH5221 series and VTH5241 series have different port positions at the rear panel, but the same port provides the same function. Taking VTH5221 as an example, specific functions of ports are introduced, as shown in Figure 1–1.

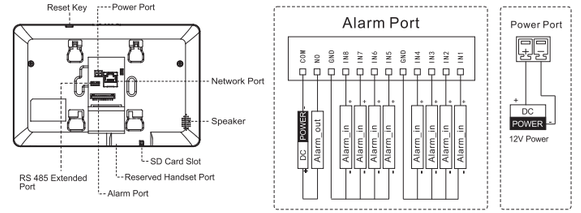

Figure 1–1

1.2.2 VTH15 Series Type A/Type B/Type CH

In VTH15 series, different types of digital VTH have different port positions, but the same port provides the same function. Taking VTH1550CH as an example, specific functions of ports are introduced, as shown in Figure 1–2.

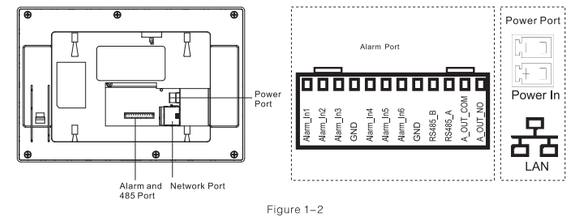

Figure 1–2

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 1–3.

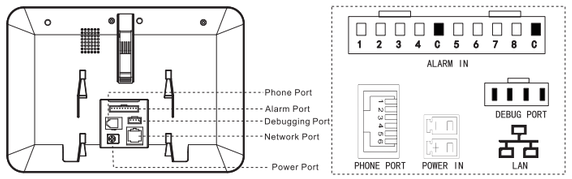

Figure 1–3

1.2.3 VTH5222CH/VTH1550CHW–2

Except different numbers of 2–wire port, VTH5222CH and VTH1550CHW–2 are the same in other aspects. VTH5222CH has 1 group of 2–wire port, while VTH1550CHW–2 has 3 groups of 2–wire port. VTH5222CH is shown in Figure 1–4.

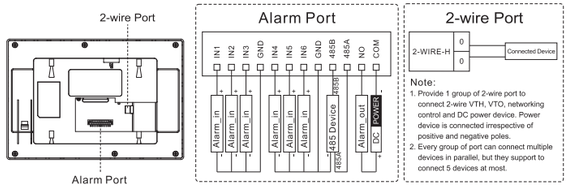

Figure 1–4

1.2.4 VTH1660CH

Its ports are described in Figure 1–5.

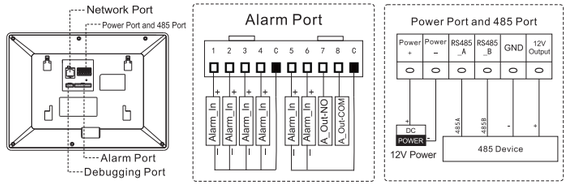

Figure 1–5

1.2.5 VTH2221A

Its ports are described in Figure 1–6.

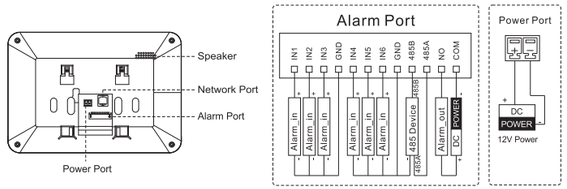

Figure 1–6

2 Installation and Debugging

2.1 Installation

CAUTION

- Don't install VTH in bad environment, such as condensation, high temperature, stained, dusty, chemically corrosive and direct sunshine environment.
- In case of abnormality after power on, please pull out network cable and cut off power supply at once. Power on after troubleshooting.
- Engineering installation and debugging shall be done by professional teams. Please don't dismantle or repair arbitrarily in case of device failure. Please contact after–sales department.
- It is suggested that installation height of device central point shall be 1.4cm～1.6cm above the ground.

2.1.1 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.

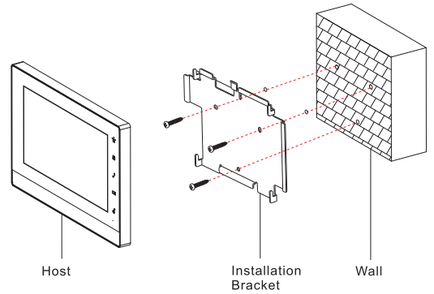

Figure 2–1

2.1.2 Installation with 86 Box

Install the device with 86 box, which is suitable for all types of devices. Take "VTH1550CH" 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.

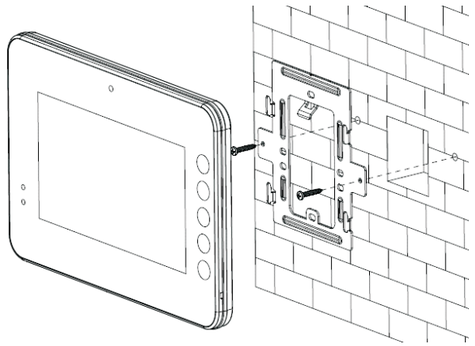

Figure 2–2

2.2 Debugging

CAUTION

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.

- Check whether there is short circuit or open circuit. Power on the device only after the circuit is confirmed to be normal.
- IP and no. of every VTO and VTH have been planned.
- For specific operations, please scan QR code on the front cover.

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.

2.2.1 VTO Settings

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

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 Power on the device, and enter default IP address of VTO at the address bar of PC browser.

The system displays "Setting" interface, as shown in Figure 2–3.

Figure 2–3

Step 2 According to interface prompt, enter "New Password" and "Confirm", and click "Next".
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 3 Login WEB interface.

NOTE

- Default user name is admin.
- Password is the new one set during initialization.

Step 4 Select "System Config > Network Config > TCP/IP".
The system displays "TCP/IP" interface, as shown in Figure 2-4.

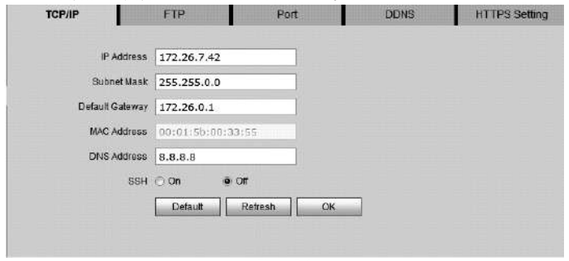

Figure 2-4

Step 5 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, login will be failed. Please add PC to the planned network segment and login WEB interface again.

Step 6 Login WEB interface again; select "System Config > LAN Config".
The system displays "LAN Config" interface, as shown in Figure 2-5.

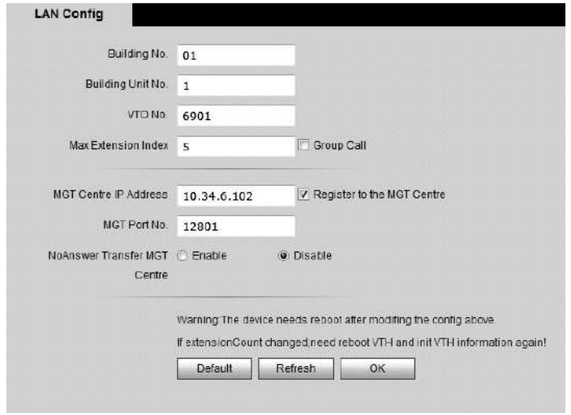

Figure 2-5

1. Enter VTO "Building No.", "Building Unit No." and "VTO No.".

NOTE

- To call the management center, please tick "Register to the MGT Center", and set "MGT Center IP Address" and "MGT Port No.".
- To provide group call function, please tick "Group Call" and set "Max Extension Index", which is 5 at most.

2. Click "OK".

Step 7 Select "System Config > Digital Indoor Station Manager".
The system displays "Digital Indoor Station Manager" interface, as shown in Figure 2-6.

NOTE

- Add master VTH.
- After "Network" interface of extension VTH has added and enabled master VTH, VTO interface will obtain extension VTH info automatically.

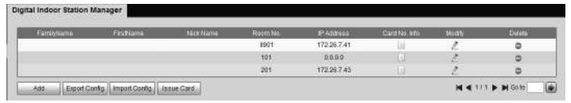

Figure 2-6

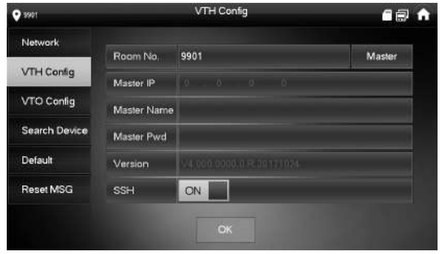

Figure 2-10

2. Connect WIFI.
The system has 2 access ways as follows.
◇ At "WLAN" interface, select WIFI, click "Wireless IP" tab to enter "Local IP", "Subnet Mask" and "Gateway", and press [OK].
◇ At "WLAN" interface, select WIFI, click "Wireless IP" tab, press OFF to enable DHCP function and obtain IP info automatically, as shown in Figure 2-11.

NOTE

To obtain IP info with DHCP function, use a router with DHCP function.

Figure 2-11

Step 6 Click [VTH Config].
The system displays "VTH Config" interface, as shown in Figure 2-12.

Figure 2-12

- Be used as a master VTH.

Enter "Room No." (such as 9901) and click "OK".

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 an extension VTH.

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

NOTE

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

3. Press [OK] to save settings.

Step 7 Click [VTO Config].
The system displays "VTO Config" interface, as shown in Figure 2-13.

Figure 2-13

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

NOTE

It is OK if IP address is not filled in. After VTH is registered to VTO successfully, VTO will obtain IP address of VTH.

3. Click "OK".

2.2.2 VTH Settings

For the first time, please initialize the password and bind Email. Password is used to enter project setting interface, while Email 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 2-7.

Figure 2-7

Step 2 Enter "Password", "Confirm Pwd" and "Email". Click [OK].
Step 3 Press [Setting] for more than 6 seconds.
The system pops up "Password" prompt box.
Step 4 Enter the password set during initialization, and click [OK].
Step 5 Click [Network].
The system displays "Network" interface, as shown in Figure 2-8 or Figure 2-9. Please set according to network access mode in actual application.

NOTE

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

Figure 2-8

Figure 2-9

- Wired IP

Enter "Local IP", "Subnet Mask" and "Gateway", press [OK]. Or press OFF to enable DHCP function and obtain IP info automatically.

NOTE

If the device has wireless function, please click "Wired IP" tab to set it.

- WLAN

1. Press OFF to enable WIFI function.
The system displays available WIFI list, as shown in Figure 2-10.

- Add main VTO.

1. In Figure 2-13, enter main VTO name, VTO IP, "User Name" and "Password".
2. Switch the "Enable Status" to be ON.

NOTE

- "User Name" and "Password" shall be consistent with WEB login user name and password of VTO. Otherwise, it will fail to connect.
- "Enable Status" of main VTO is "ON" by default. After setting VTO info, it will take effect after turning it off and then turning it on again.

- Add sub VTO.

1. Press to switch to sub VTO setting interface.
2. Enter sub VTO name, IP address, "User Name" and "Password".
3. Switch the "Enable Status" to be ON.

- Add fence station.

1. Press to switch to sub VTO setting interface.
2. Select device type to be "Fence Station", enter Sub VTO name (fence station name), VTO middle no., "User Name" and "Password".

NOTE

VTO middle no. consists of "1+building no. + unit no. + VTO no."; building no. has 2 digits, unit no. has 1 digit and VTO no. has 4 digits, so middle no. has 8 digits in total. For example, middle no. is 10116901 for Building 01 Unit 1 Room 6901.

3. Switch the "Enable Status" to be ON.

2.3 Debugging Verification

2.3.1 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 2-14. It represents successful debugging.

Figure 2-14

2.3.2 VTH Monitors VTO

VTH is able to monitor VTO, fence station or IPC. Take "VTO" for example.
Select "Monitor > Door", as shown in Figure 2-15. Select the VTO to enter monitoring image, as shown in Figure 2-16.

NOTE

The following figure means that SD card has been inserted into VTH. If SD card is not inserted, recording and snapshot icons are gray.

Figure 2-15

Figure 2-16