
Unit Door Station User's Manual
----VTO12XX Series

Welcome

Thank you for purchasing our product!

This quick start guide is designed to be a reference tool for your system.

Please keep it well for future reference!

Important Safeguards and Warnings

Please read the following safeguards and warnings carefully before using the product in order to avoid damages and losses.

Note:

- Do not expose the device to lampblack, steam or dust. Otherwise it may cause fire or electric shock.
- Do not install the device at position exposed to sunlight or in high temperature. Temperature rise in device may cause fire.
- Do not expose the device to humid environment. Otherwise it may cause fire.
- The device must be installed on solid and flat surface in order to guarantee safety under load and earthquake. Otherwise, it may cause device to fall off or turnover.
- Do not place the device on carpet or quilt.
- Do not block air vent of the device or ventilation around the device. Otherwise, temperature in device will rise and may cause fire.
- Do not place any object on the device.
- Do not disassemble the device without professional instruction.

Warning:

- Please use battery properly to avoid fire, explosion and other dangers.
- Please replace used battery with battery of the same type.
- Do not use power line other than the one specified. Please use it properly. Otherwise, it may cause fire or electric shock.

Special Announcement

- This manual is for reference only.
- All the designs and software here are subject to change without prior written notice.
- All trademarks and registered trademarks are the properties of their respective owners.
- If there is any uncertainty or controversy, please refer to the final explanation of us.
- Please visit our website for more information.

Table of Contents

1	Product Overview	1
1.1	VTO1210A/VTO1210A-X/VTO1220A.....	1
1.2	VTO1210B(W)-X/VTO1220B(W).....	4
1.3	VTO1210C-X	6
2	Basic Functions	9
2.1	Call.....	9
2.2	Modify Local Config.....	9
2.2.1	Enter Project Settings Interface.....	9
2.2.2	Modify IP, Gateway and Subnet Mask.....	9
2.2.3	Modify Volume Config.....	10
2.3	Issue Card.....	10
2.4	Password Function.....	10
2.4.1	Unlock from VTH and Center	10
2.4.2	Unlock from Local	10
2.4.3	Unlock via IC card.....	11
2.5	VTO Web Function.....	11
2.5.1	Web Login.....	11
3	Web Function	12
3.1	Overview	12
3.2	System Config.....	13
3.2.1	Login Config.....	13
3.2.2	Indoor Station(VTH) Manager	15
3.2.3	LAN Setting.....	16
3.2.4	Network Setting.....	17
3.2.5	Change Password.....	18
3.3	Info Search.....	18
3.4	Status Statistics.....	19
3.5	Logout.....	19
4	Debug System	21

4.1	Debug Digital System.....	21
4.1.1	Configure VTO	21
4.1.2	Configure Digital VTH	22
4.1.3	Create Digital System	22
4.2	Debug Analog System.....	22
4.2.1	Configure VTO	23
4.2.2	Create Analog System	23
4.2.3	Configure Analog VTH	23
5	FAQ	24
	Appendix 1 Specifications	25
	Appendix 2 Device Port.....	27
	Appendix 3 Installation	31

1 Product Overview

Connect the device to the power, the system boots up properly. After about one minute, the screen turns on and the boot-up completes, system goes to the normal working interface. The front panel is shown as in Figure 1-1, Figure 1- 2 and Figure 1-3.

1.1 VTO1210A/VTO1210A-X/VTO1220A

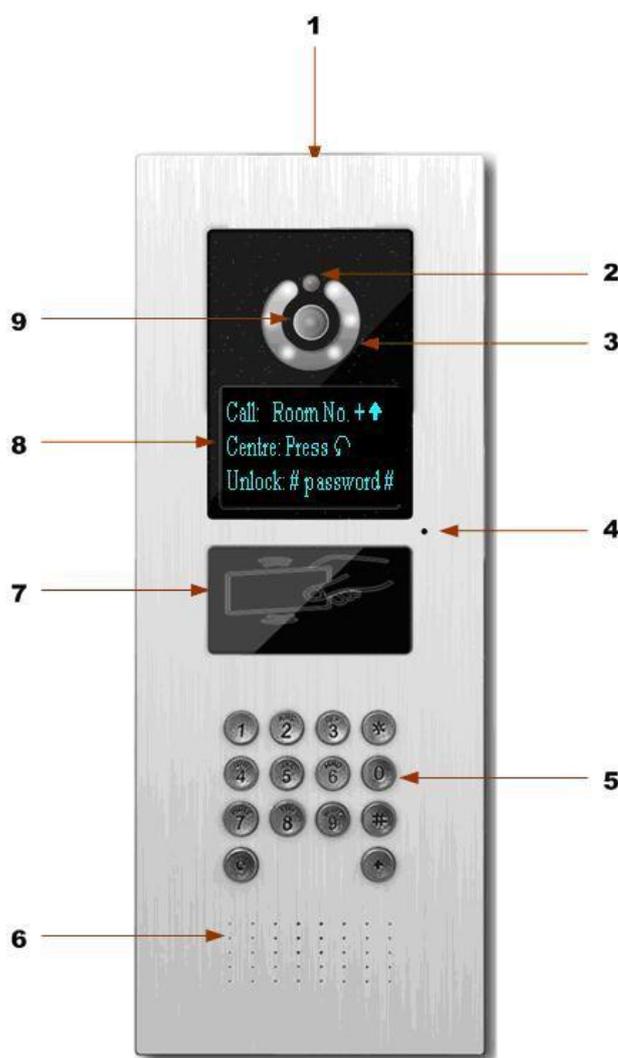


Figure 1- 1 VTO1210A/VTO1210A-X/VTO1220A

Please refer to the following sheet for detailed information.

SN	Name	Function
1	Logo	Decoration logo.
2	Photo Sensor	It can detect the environment light. It is a compensation light option.

3	Compensation Light	It can compensate the camera light in the low illumination environments.
4	Microphone	Audio input
5	Key Panel	<p>1.  Button.</p> <p>a) Backspace function. It is to delete the previous symbol.</p> <p>b) Hang up function. It is to hang up the call.</p> <p>2. Number button. Input the number 0 to 9.</p> <p>3.  button. When you are using the password to open the door. Press this button once to begin input. After you input the password, please press it again to complete the operation.</p> <p>4.  Call button. After you input the room number, press it to begin a dial up.</p> <p>5.  Call center button. Press it to call the center directly.</p>
6	Speaker	Output audio
7	Card Induction zone	Use the card to open the door.
8	LCD	<p>Here you can view prompt information, date, time and etc.</p> <p>Note:</p> <p>1. "Call: Room No. +  ". Please input the room number first and then press the button  to dial;</p> <p>2."Call Center: Press  button". Please press the button  to call center.</p> <p>3."Password:  + password +  ", If you want to open the door via the password, please press the button  and then input the room number and</p>

		password. Please press the button  to confirm.
9	Camera	It is to monitor the video of the door.

1.2 VTO1210B(W)-X/VTO1220B(W)

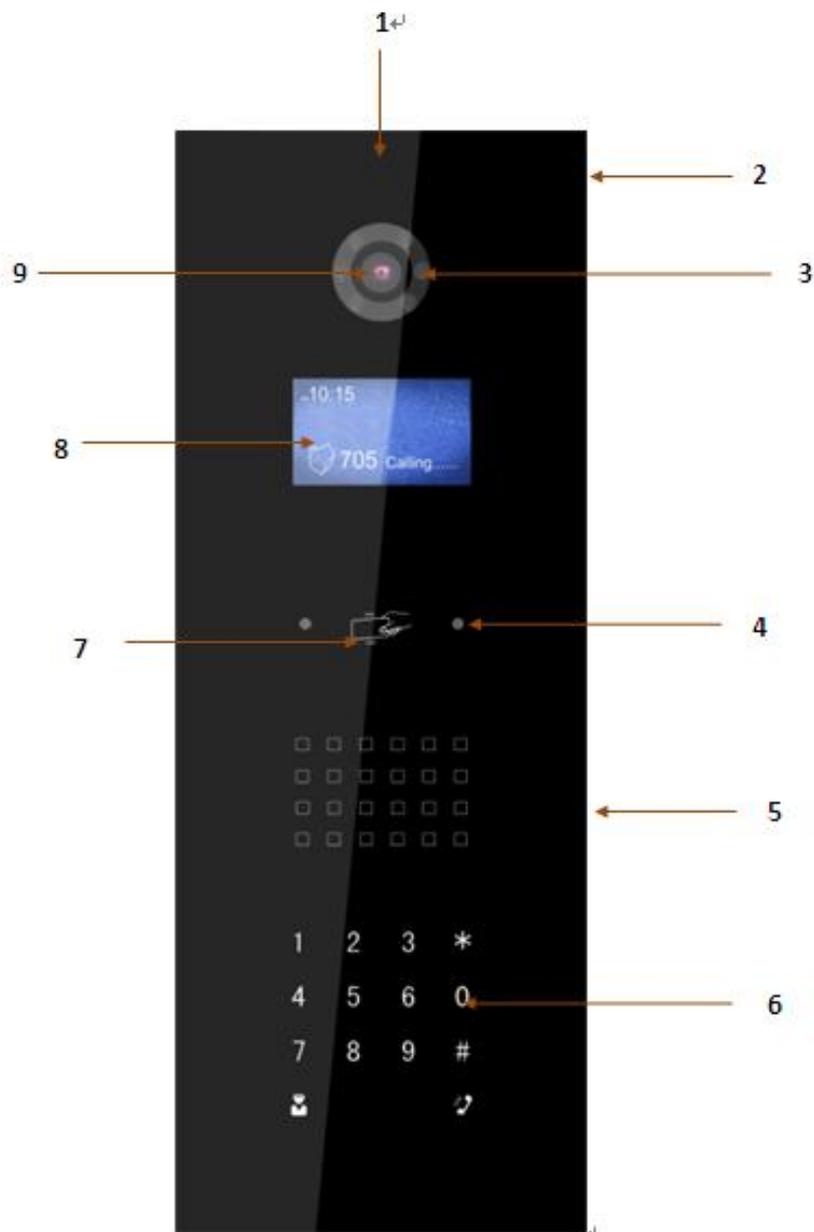


Figure 1- 2 VTO1210B(W)-X/VTO1220B(W)

Please refer to the following sheet for detailed information.

SN	Name	Function
1	Logo	Printed logo.
2	Microphone	Audio input
3	Compensation Light	It can compensate the camera light in the low illumination environments.
4	Approaching Induction	It can detect approaching body.

5	Speaker	Output audio
6	Key Panel	<p>1. *Button.</p> <p>a) Backspace function. It is to delete the previous symbol.</p> <p>b) Hang up function. It is to hang up the call.</p> <p>2. Number button. Input the number 0 to 9.</p> <p>3. # button. When you are using the password to open the door. Press this button once to begin input. After you input the password, please press it again to complete the operation.</p> <p>4.  Call button. After you input the room number, press it to begin a dial up.</p> <p>5.  Call center button. Press it to call center directly.</p>
7	Card Induction Zone	Use the card to open the door.
8	LCD	<p>Here you can view prompt information, date, time and etc.</p> <p>Note:</p> <p>1. "Call: Room No. +  </p>

9	Camera	It is to monitor the video of the door.
---	--------	---

1.3 VTO1210C-X

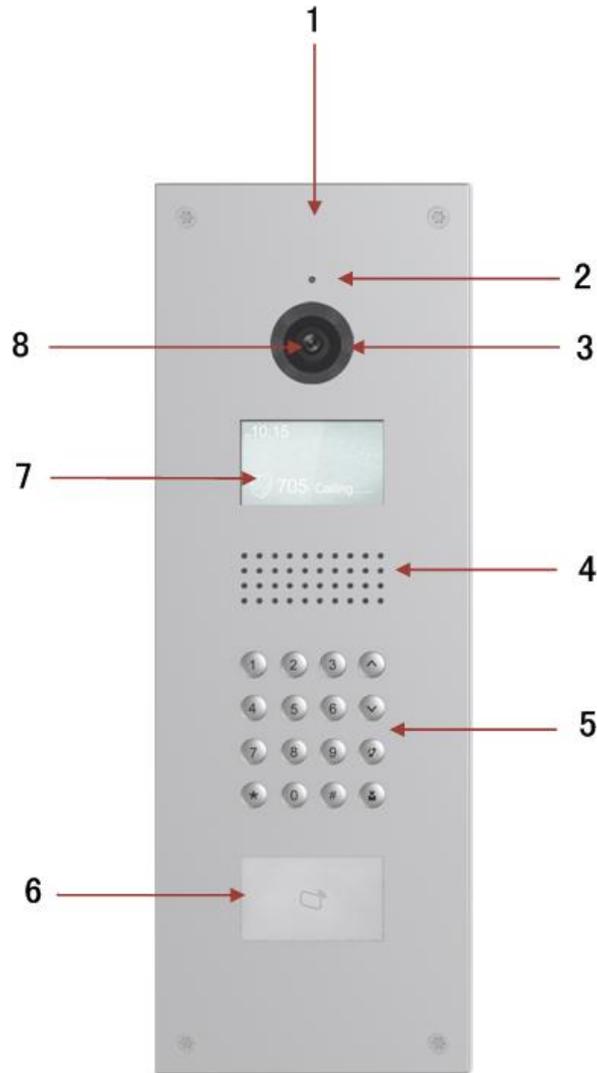


Figure 1- 3 VTO1210C-X

Please refer to the following sheet for detailed information.

SN	Name	Function
1	Logo	Printed logo.
2	Microphone	Audio input
3	Compensation Light	It can compensate the camera light in the low illumination environments.
4	Speaker	Output audio

5	Key Panel	<ol style="list-style-type: none"> 1. *Button. c) Backspace function. It is to delete the previous symbol. d) Hang up function. It is to hang up the call. 2. Number button. Input the number 0 to 9. 3. # button. When you are using the password to open the door. Press this button once to begin input. After you input the password, please press it again to complete the operation. 4.  Call button. After you input the room number, press it to begin a dial up. 5.  Call center button. Press it to call center directly. 6.   button: In contacts interface, press these buttons to page up and down. They can be customized for special function.
6	Card Induction Zone	Use the card to open the door.
7	LCD	<p>Here you can view prompt information, date, time and etc.</p> <p>Note:</p> <ol style="list-style-type: none"> 1. "Call: Room No. +  ". Please input the room number first and then press the button  to dial; 2."Call Center: Press  button". Please press the button  to call center. 3."Password: # + password + #", If you want to open the door via the password, please press the button # and then input the room number and

		password. Please press the button # to confirm.
8	Camera	It is to monitor the video of the door.

2 Basic Functions

2.1 Call

Under standby status (Figure 1-1, Figure 1- 2), press  or  button, this VTO will call center. The video door phone begins when the port picks up. During the whole process, you can press the button  or * to end current talk and return to the standby interface.

Under standby status, enter room no. or press  or  to select room no. in contacts, and press  or  to call VTH. The video door phone begins when the VTH picks up.

During the whole process, you can press the button  or * to end current talk and return to the standby interface.

2.2 Modify Local Config

2.2.1 Enter Project Settings Interface

In the standby status, press  or #, input password as 888888 and then press  or # to enter installation setup interface. Select up/down via button 2 and 8, press  or * to enter sub-interface.

2.2.2 Modify IP, Gateway and Subnet Mask

In project settings --- IP setup interface, select up/down/left/right via button 2,8,4,6, press  or # to enter/exit IP modification status. When you finish, press  or * to exit modification interface.

2.2.3 Modify Volume Config

In volume interface, adjust volume via button 4 and 6. When you finish, press  or * to exit modification interface.

2.3 Issue Card

In card issuing interface, select to issue card with parent card or password via button 2 and 8. Press  or * to enter sub-interface.

Issue with parent card: Under issuing card with parent card interface, fill in room no. of the card to be authorized, and swipe it. When it says the card has been authorized successfully, press  or * to exit.

Issue with password: Under issuing card with password interface, enter issuing password 002236, press  or # to enter, fill in room no. of the card to be authorized, and swipe it. When it says the card has been authorized successfully, press  or * to exit.

2.4 Password Function

2.4.1 Unlock from VTH and Center

During calling, talk and monitoring statuses, the center or the VTH can open the door lock of the device remotely. System returns to the standby interface after phone hangs up or the countdown is complete.

2.4.2 Unlock from Local

VTO WEB page – A&C Manager—Password Unlock Type, select either uniform password or self password.

Uniform password: In standby interface, press  or # , input default password: 123456, press  or # to unlock. Default password can be changed in A&C Manager interface.

Self password: n standby interface, press  or # , input 4-digit room no. + default

password: 123456, press  or # to unlock. For example, to unlock room 101, you shall input: #0101123456#. Default password can be changed in A&C Manager interface.

2.4.3 Unlock via IC card

The door is open after you swipe IC card and the card passed the authentication and station verification.

2.5 VTO Web Function

2.5.1 Web Login

Access VTO from PC, input the IP address of VDP in your explorer to enter the web login page. Input username: admin and password: admin, then you can enter its web page where you can configure the VTO. Please refer to the following chapter for details.

3 Web Function

3.1 Overview

The web-based interface is shown in Figure 3- 1.

Web function supports VTO1220A, VTO1220B, VTO1210A-X, VTO1210B(W)-X and VTO1210C-X. The webpage of each device may be slightly different. Here makes 1210B-X an example:

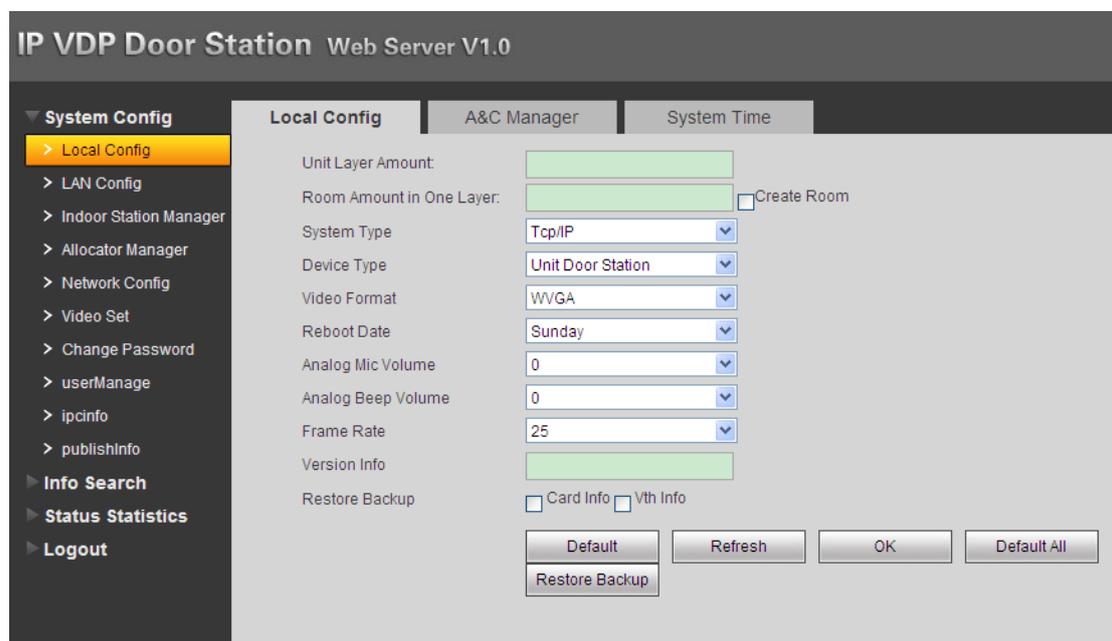


Figure 3- 1

Please refer to the following sheet for detailed information.

SN	Name	Function
1	System Config	You can set VTO1210B-X device parameter and network info.
2	Info Search	You can search VTO1210B-X call history.
3	Status Statistics	You can perform statistics of VTH status under VTO1210B-X.
4	Logout	You can control reboot of VTO1210B-X and shutdown of WEB server.

3.2 System Config

3.2.1 Login Config

Input VTO IP address in address field of IE Explorer as in Figure 3- 2.



Figure 3- 2

You must input username and password in order to login WEB main interface.

Default username: admin

Default password: admin.

After you login, you will see 4 major settings: system, info search, status statistics, and Logout.

3.2.1.1 Local Setting

The following is the instruction for major settings:

1. Frame: For NTSC standard, please select 30 frame/s. For Pal standard, please select 25 frame/s.
2. One-key clear: You may restore all settings on VTO to default after pressing this button and confirm. **Be careful!**
3. Video format has two types of resolution:
 - D1: 704x576
 - WVGA: 800x480

Please see Figure 3- 3.

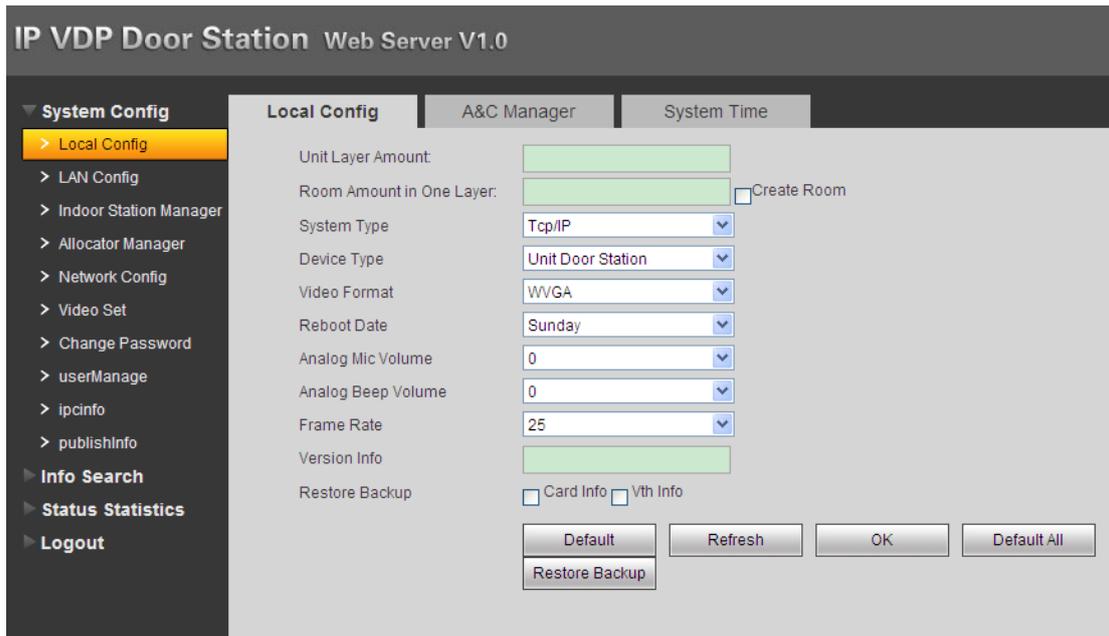


Figure 3- 3

3.2.1.2 A&C Manager

Click on Local Config and then click on A&C Manager. You may change password here and please keep in mind that the default password is 123456. To unlock door, please input #123456#. You also can set unlock responding interval and unlock period.

FTP address: FTP address is used to store snapshot taken at VTO when someone swipes card. User can login FTP to view those photos.

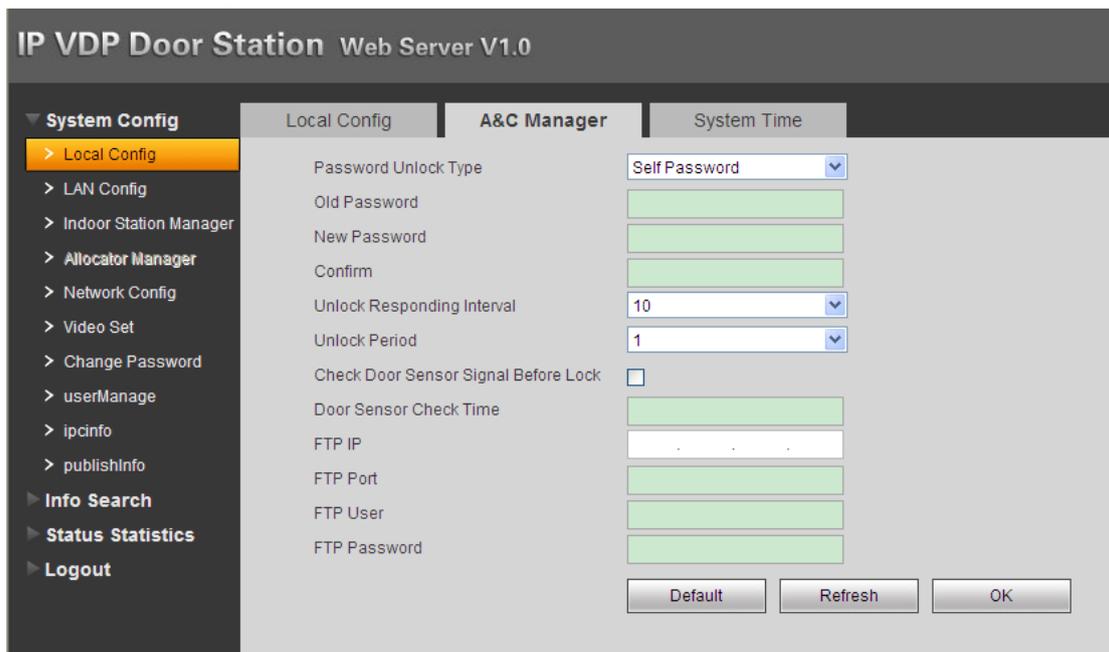


Figure 3- 4

3.2.2.3 System Time

Click on Local Config and then click on System Time. You may set time in the following interface as in Figure 3- 5. You may also synchronize system time with your local PC.

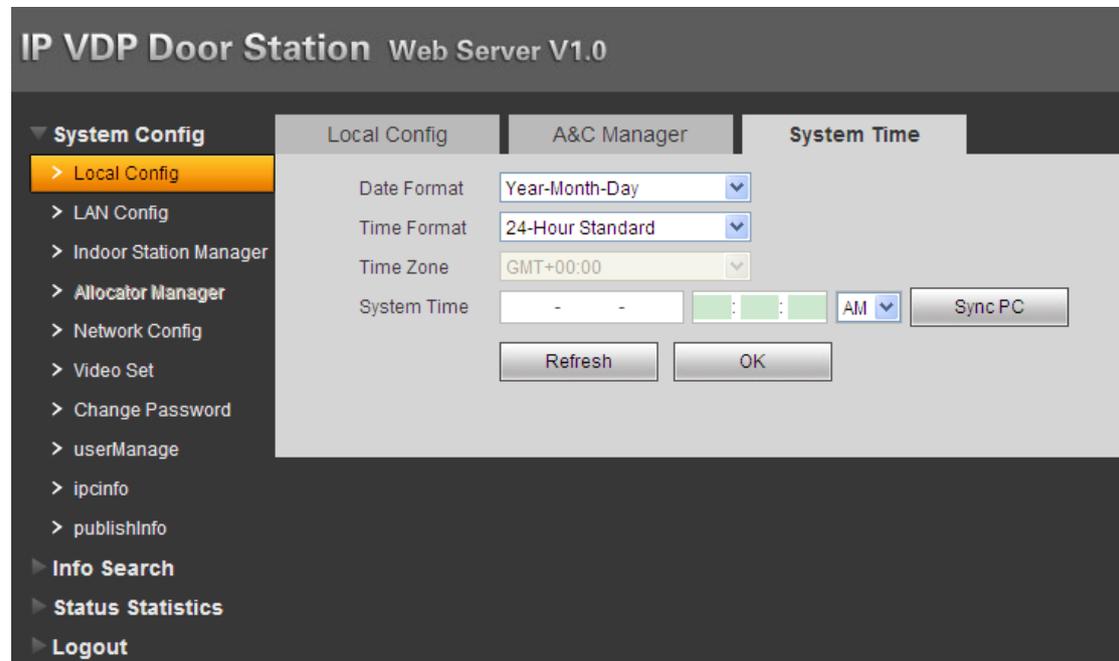


Figure 3- 5

3.2.2 Indoor Station(VTH) Manager

Indoor Station Manager mainly includes adding digital/analog VTH, deleting VTH and editing VTH user. VTO1210A-X and VTO1210B-X have digital and analog indoor station manager. VTO1220A only has digital indoor station manager.

3.2.2.1 Digital Indoor Station Manager

In Digital Indoor Station Manager interface, check box *display resident info enable* to display successfully configured VTH info as shown in Figure 3- 6. Click on Add button at the left lower corner, and input user name and VTH short number. Please be notified that only VTH number is required for operation as default.

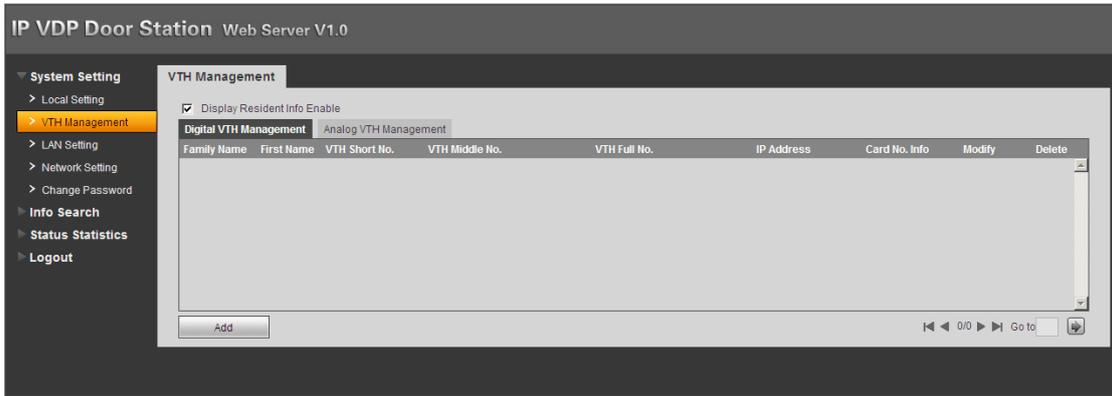


Figure 3- 6

3.2.3.2 Analog Indoor Station Manager

In Analog Indoor Station Manager interface, check box *display resident info enable* to display successfully configured VTH info as shown in Figure 3- 7. Click on *add* button at the left lower corner, and input VTH number, distributor address and distributor port. VTH number is the room number where analog VTH locates; distributor address is its dialup IP which ranges from 1 to 99. It originally could be manually adjusted, but now it has been burned into program. Port is the corresponding port number in distributor which normally is either 1~4 or 1~8, depending on number of distributor channel. For example, room number is 1502, distributor address is 15, and port NO. is 2.

Note: VTO1220A does not support analog indoor station.

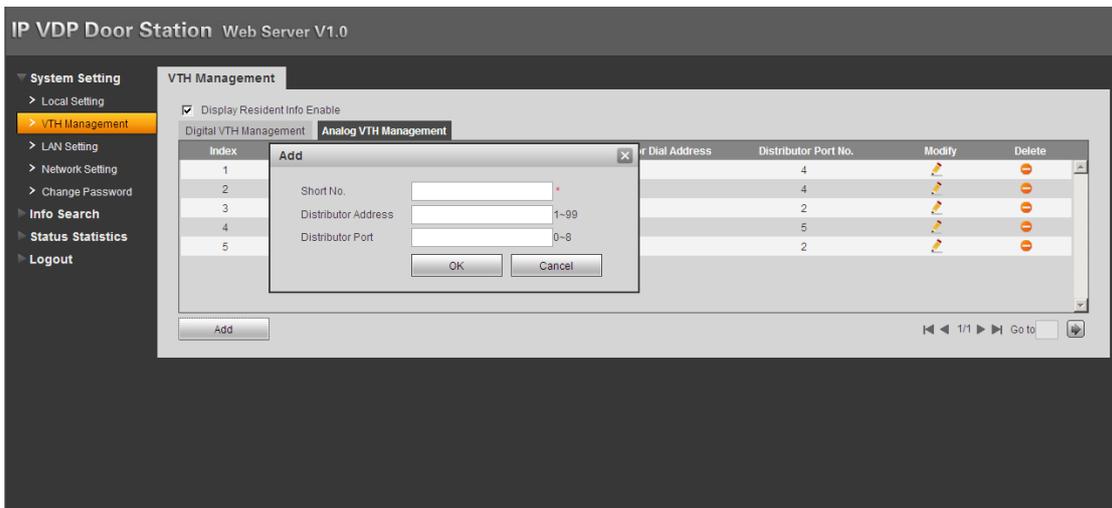


Figure 3- 7

3.2.3 LAN Setting

Default setting is enough if you just want networking between VTO and VTH, but if you

want to set the center, you need to change default settings to be identical with center info. You also need to check box register to MGT center. If you successfully set center, you may call center by pressing call center button at lower left corner on VTO. Please see Figure 3- 8.

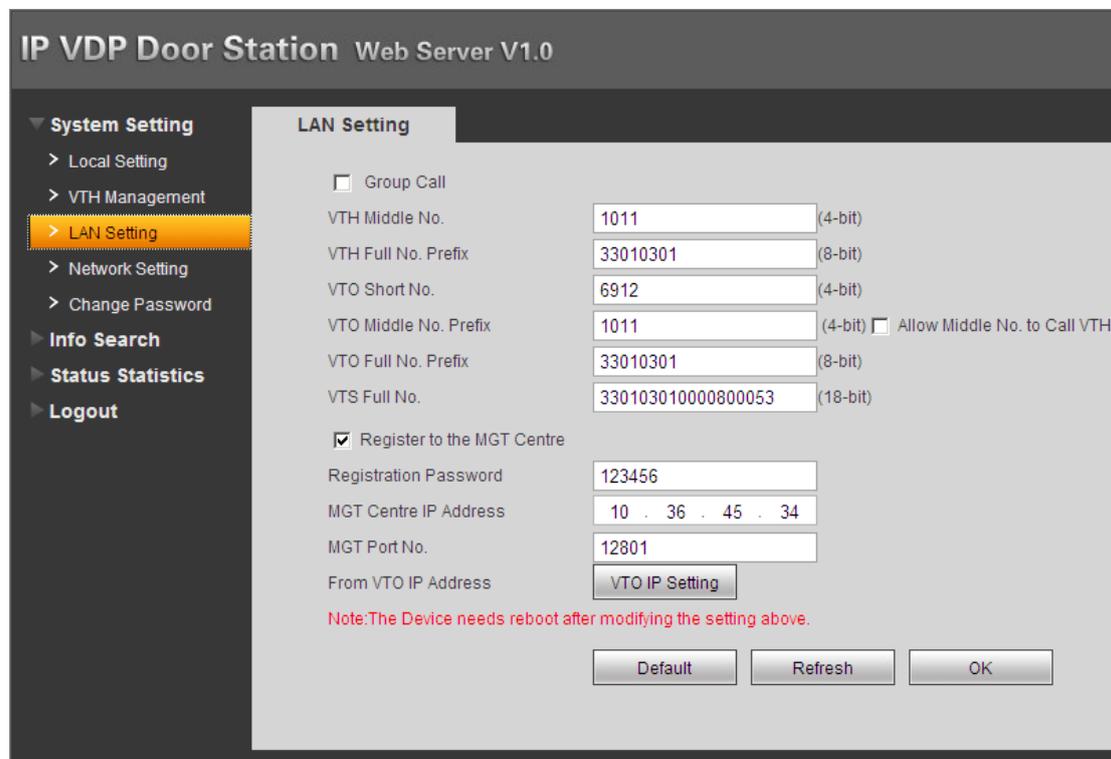


Figure 3- 8

3.2.4 Network Setting

In network setup interface, you can set IP address, subnet mask and default gateway of VTO as shown in Figure 3- 9. After you change IP address, WEB interface will reboot and you will see a new IP address interface.

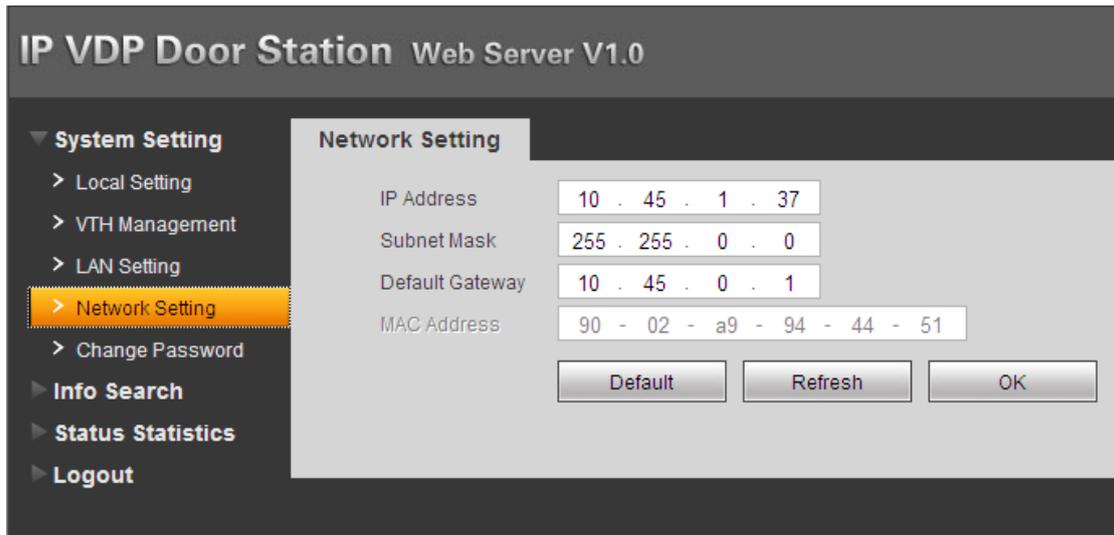


Figure 3- 9

3.2.5 Change Password

In Change Password interface, you can change WEB login password of VTO. You must input old password, new password and confirm new password. Click on *OK* button to save as shown in Figure 3- 10.

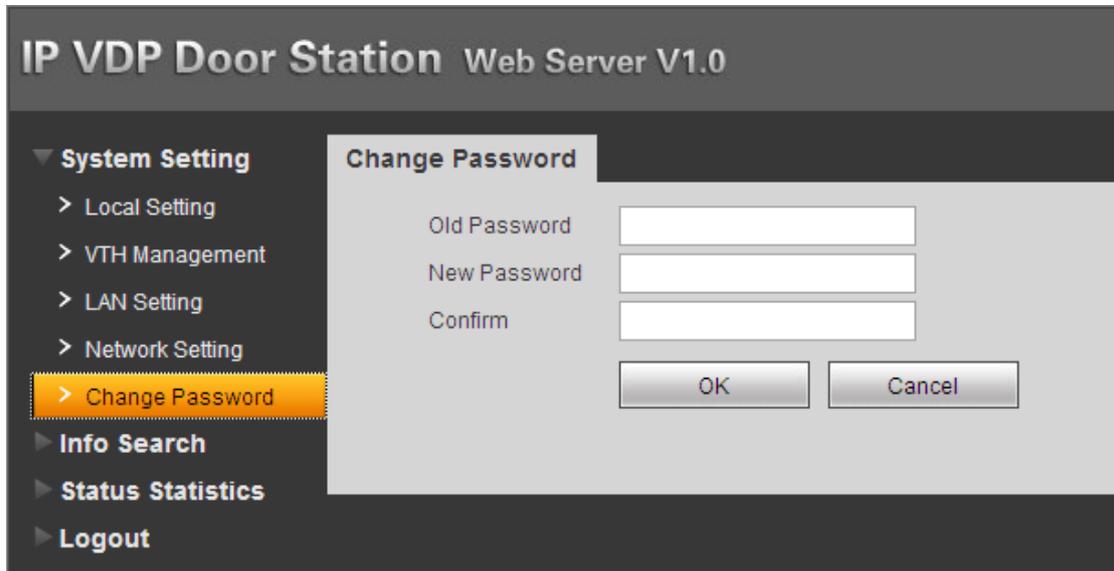


Figure 3- 10

3.3 Info Search

Click on Info Search and then click on Call History. Here you may search local call histories and device can store up to 1124 records. Please see Figure 3- 11

IP VDP Door Station Web Server V1.0

- System Setting
- Info Search
- Call History
- Status Statistics
- Logout

VTO Call History

Index	Call Type	Room No.	Start Time	Call Duration(m)	End Status
1	Outgoing	303	2012:11:07 15:02:49	00:02	Received
2	Outgoing	8000	0	00:00	Missed
3	Outgoing	8000	0	00:00	Missed
4	Outgoing	203	2012:11:06 13:20:12	00:12	Received
5	Outgoing	8000	0	00:00	Missed
6	Outgoing	203	2012:11:05 08:15:21	00:11	Received
7	Outgoing	303	2012:11:05 18:55:36	00:04	Received
8	Outgoing	9999	0	00:00	Missed
9	Outgoing	203	2012:10:31 15:19:01	00:11	Received
10	Outgoing	203	2012:10:31 15:18:15	00:12	Received
11	Outgoing	203	2012:10:31 15:17:08	00:10	Received

1/28 Go to

Figure 3- 11

3.4 Status Statistics

Click on Status Statistics and then click on VTH Status. Here you can view connection status of VTH as shown in Figure 3- 12.

IP VDP Door Station Web Server V1.0

- System Setting
- Info Search
- Status Statistics
- VTH Status
- Logout

VTH Status

VTH	Status	MON	IP:PORT	REG_TIME	OFFTIME
203	Offline	Unmon	2.4	0	0
303	Online	Unmon	2.2	2012:11:08 15:45:11	0
304	Offline	Unmon	2.5	0	0
403	Offline	Unmon	2.2	0	0
9999	Offline	Unmon	2.4	0	0

1/1 Go to

Figure 3- 12

3.5 Logout

Click on Logout. Here you may select either to Reboot Device or Logout system as shown in Figure 3- 13 and Figure 3- 14.

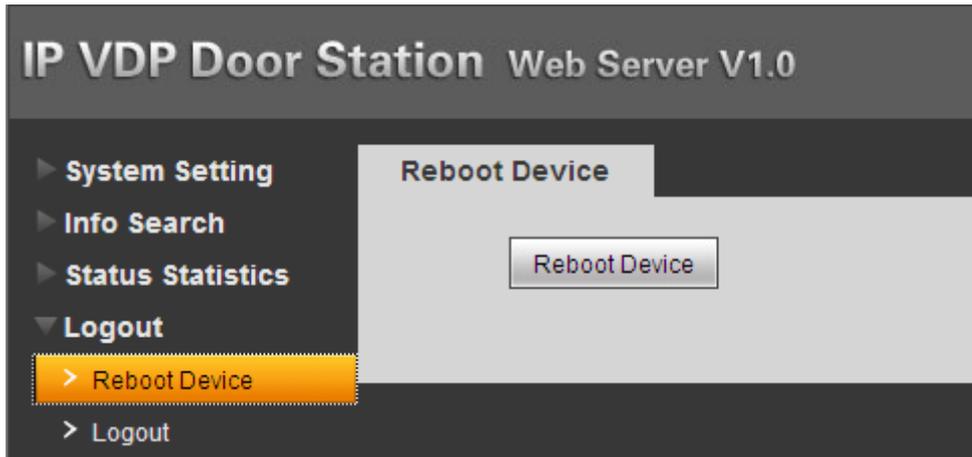


Figure 3- 13

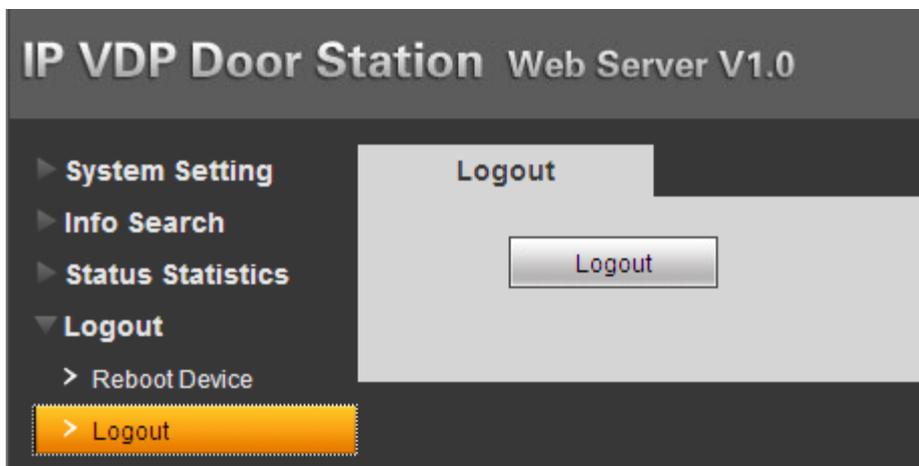


Figure 3- 14

4 Debug System

4.1 Debug Digital System

See Figure 4- 1.

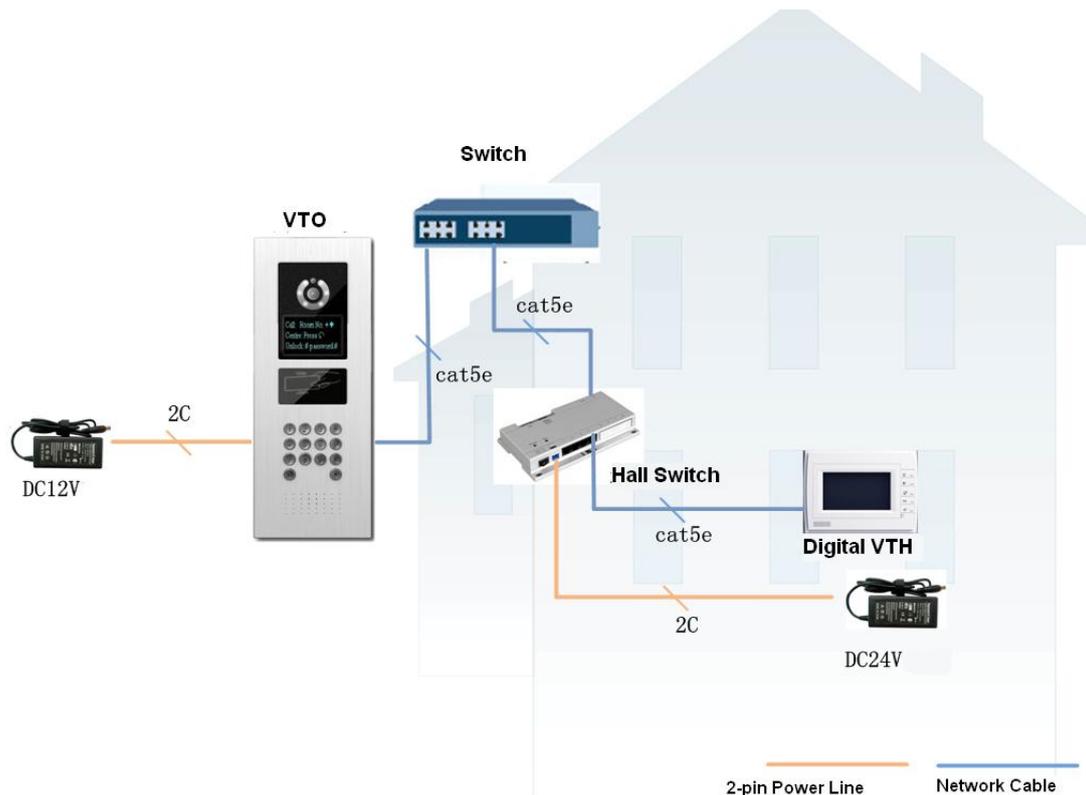


Figure 4- 1

Connect VTO to PC via network connection and modify PC's local IP, subnet mask to be the same network segment of VTO. You can access and configure the VTO via web.

4.1.1 Configure VTO

Enter VTO's WEB page—Local Config (Figure 3-3), set System Type to TCP/IP and Video Format to WVGA (If the VTH is 1520A-A8, then set it to D1.). Set Frame Rate according to local environment and click on OK to save.

Enter Indoor Station Manager—Digital Indoor Station (Figure 3-6), add VTH room no.

4.1.2 Configure Digital VTH

Enter digital VTH system settings—Project Settings, input project password: 002236 to enter. Input the room no. that configured on VTO. In Network Config, configure VTH IP, Subnet Mask and Default Gateway. At network terminal, input VTO IP address, enable it and click on OK.

4.1.3 Create Digital System

Connect VTO to VTH. Make VTO's network port connect to IN port on switch. (No. 2 port in Figure 2-2 in Appendix 2). Connect any one port from port 1-6 to VTH. Check if the connection is correct. Turn on the switch, and the switch starts to supply the VTH with power. When the entire system boots up successfully, the VTH will automatically register the VTO. The offline icon at the upper left corner of VTH will disappear and VTO middle no. will be displayed at network terminal. Now, press monitor button on VTH, you can monitor image from VTO. The digital system is complete.

4.2 Debug Analog System

See Figure 4- 2.

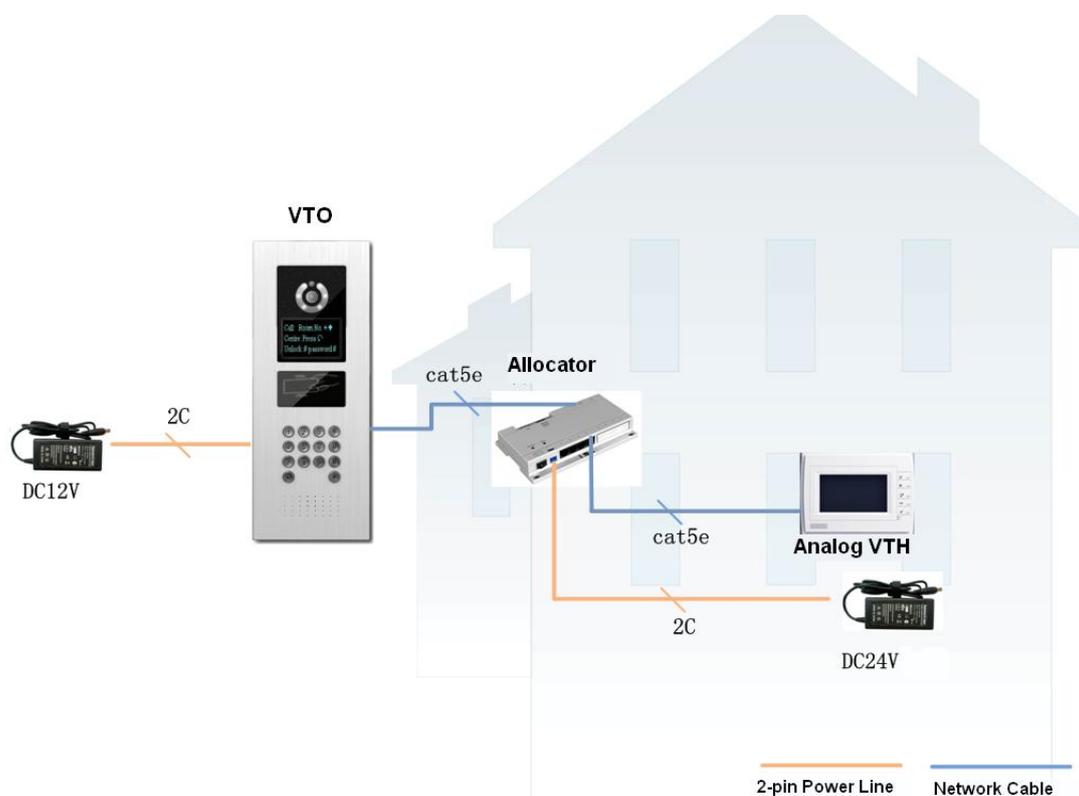


Figure 4- 2

Connect VTO to PC via network connection, and change PC's local IP, subnet mask to be the same network segment of VTO. You can access and configure the VTO via web.

4.2.1 Configure VTO

Enter VTO's WEB page—Local Config (Figure 3-3), set System Type to analog and Video Format to D1. Set Frame Rate according to local environment and click on OK to save. Enter Indoor Station Manager—Digital Indoor Station (Figure 3-6), add VTH room no.

4.2.2 Create Analog System

Connect VTO to VTH. Make VTO's analog port connect to IN port on allocator. (refer to Figure 2-1 and 2-2 in Appendix 2). Connect any one port on allocator to VTH. The allocator starts to supply the VTH with power. When the analog system is complete, turn on switch on allocator to boot up the VTH.

Note: Color of A-X cable connecting to analog signal port (from up to down): white-blue, blue, NA, NA, white-green, green, white-brown, brown.

4.2.3 Configure Analog VTH

Plug 4.3" VTH to power and long press call button, wait until the VTH goes to room no. modification page: Press Emergency button to select bit. Call button switches number and exit. Reboot VTH when you finish setup. Press monitor button to view image from VTO as the analog system has been debugged successfully.

Plug 7" VTH to power and long press call button, wait until the VTH goes to room no. modification page: Press Emergency button to select bit. Call button switches number and exit. Reboot VTH when you finish setup. Press monitor button to view image from VTO as the analog system has been debugged successfully.

Note: When there is more than one VTH, please debug one by one at each time.

5 FAQ

Q: I cannot boot up the device, or I can see the LCD is black.

A: Please check your power cable connection. Please reboot it again.

Q: I cannot call.

A: Please check your network connection.

Q: I cannot reach the person I want to contact. What shall I do?

A: It may be the network error. Please check the network cable connection between the host and the extension device.

Q: The number I dial does not exist.

A: Please make sure you have dialed the proper number.

Q: System says the IC card number is invalid when I swipe the card. What shall I do?

A: The card status is abnormal. Please contact your administrator for help.

Q: System says the IC card number is wrong. What shall I do?

A: It means current card does not have the authority. Please contact your administrator for help.

Q: I have some problems, I am not so sure or I can not fix.

A: Please contact your local retailer for help.

Appendix 1 Specifications

Model	VTO1210A	VTO1220A	VTO1220B(W)	VTO1210A-X	VTO1210B(W)-X	VTO1210C-X
OS						
Main Processor	Embedded micro processor					
OS	Embedded LINUX OS					
Video						
Video Compression Standard	H.264					
Input/Approaching Induction	1.3 megapixel CMOS camera					
Back Light	Support					
Auto Light Compensation	Support					
Audio						
Input	Microphone					
Output	Built-in speaker					
Bidirectional Talk	Support dual-way bidirectional talk					
Display						
LCD Dimensions	3-inch STN screen	3.5-inch TFT screen		3-inch STN screen	3-inch STN screen	
Resolution	128*64	320*240		128*64	128*64	
Operation Mode						
Input	Digital keyboard	Digital keyboard	Touch keyboard	Digital keyboard	Touch keyboard	Digital keyboard
Card	Built-in IC card induction reader					
Approaching Induction						
Body Approaching	Not applicable	1 meter		Not applicable	1 meter	
Alarm						
Vandal proof	Support					
Access Control						
NO Output	Support					
NC Output	Support					
Door on/off Button	Support					
Door Status Detect	Support					
Network						
Ethernet	10M/100Mbps Self-adaptive					
Network Protocol	TCP/IP					
Storage						
Memory	128MB					

Others				
Power	DC 10~15V			
Power Consumption	Standby≤1W ; work≤10W			
Working Environments	-10℃ ~+60℃	-20℃~+60℃	-10℃ ~+60℃	-40℃~+60℃
	10~95%RH			
Water Proof	VTO1212B-X Water proof level:IP65			
Dimensions	376mm*151mm*60mm (L*W*H)			
Weight	1.6kg			

Appendix 2 Device Port

The device rear panels are shown as in Figure 2-1 and 2-2.

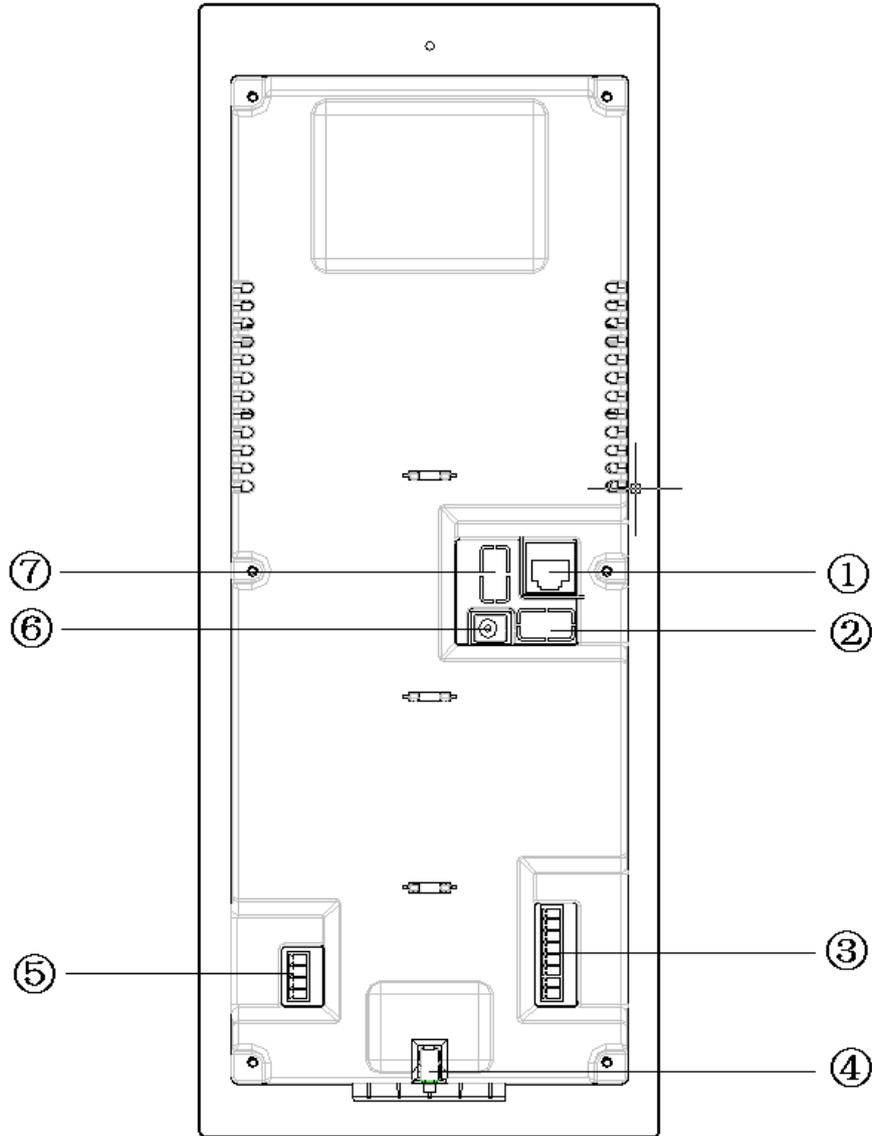


Figure 2-1 VTO1210A/VTO1220A/VTO1210A-X rear structure

SN	Port Name	Function								
1	Network Port	Connect to the RJ45 port.								
2	Access Control Input Port	Connect to signal from the door sensor, door on/off signal. <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>Unlock Button</td> <td>GND</td> <td>Door Sensor</td> <td>GND</td> </tr> <tr> <td style="text-align: center;">○</td> <td style="text-align: center;">○</td> <td style="text-align: center;">○</td> <td style="text-align: center;">○</td> </tr> </table>	Unlock Button	GND	Door Sensor	GND	○	○	○	○
Unlock Button	GND	Door Sensor	GND							
○	○	○	○							

3	Analog Signal Port (VTO1210A-X only)	<p>Connect to the analog signal of the distributor.</p> <table border="1" data-bbox="799 293 997 703"> <tr><td>CAN-H</td><td><input type="radio"/></td></tr> <tr><td>CAN-L</td><td><input type="radio"/></td></tr> <tr><td>NA</td><td><input type="radio"/></td></tr> <tr><td>NA</td><td><input type="radio"/></td></tr> <tr><td>Audio +</td><td><input type="radio"/></td></tr> <tr><td>Audio -</td><td><input type="radio"/></td></tr> <tr><td>Video +</td><td><input type="radio"/></td></tr> <tr><td>Video +</td><td><input type="radio"/></td></tr> </table> <p>corresponds</p> <table border="1" data-bbox="823 752 1018 1160"> <tr><td>White-blue</td><td><input type="radio"/></td></tr> <tr><td>Blue</td><td><input type="radio"/></td></tr> <tr><td>NA</td><td><input type="radio"/></td></tr> <tr><td>NA</td><td><input type="radio"/></td></tr> <tr><td>White-green</td><td><input type="radio"/></td></tr> <tr><td>Green</td><td><input type="radio"/></td></tr> <tr><td>White-brown</td><td><input type="radio"/></td></tr> <tr><td>Brown</td><td><input type="radio"/></td></tr> </table> <p>to</p>	CAN-H	<input type="radio"/>	CAN-L	<input type="radio"/>	NA	<input type="radio"/>	NA	<input type="radio"/>	Audio +	<input type="radio"/>	Audio -	<input type="radio"/>	Video +	<input type="radio"/>	Video +	<input type="radio"/>	White-blue	<input type="radio"/>	Blue	<input type="radio"/>	NA	<input type="radio"/>	NA	<input type="radio"/>	White-green	<input type="radio"/>	Green	<input type="radio"/>	White-brown	<input type="radio"/>	Brown	<input type="radio"/>
CAN-H	<input type="radio"/>																																	
CAN-L	<input type="radio"/>																																	
NA	<input type="radio"/>																																	
NA	<input type="radio"/>																																	
Audio +	<input type="radio"/>																																	
Audio -	<input type="radio"/>																																	
Video +	<input type="radio"/>																																	
Video +	<input type="radio"/>																																	
White-blue	<input type="radio"/>																																	
Blue	<input type="radio"/>																																	
NA	<input type="radio"/>																																	
NA	<input type="radio"/>																																	
White-green	<input type="radio"/>																																	
Green	<input type="radio"/>																																	
White-brown	<input type="radio"/>																																	
Brown	<input type="radio"/>																																	
4	Vandal Proof Alarm Button	It can generate an alarm when there is a vandal operation.																																
5	RS422 Port (Reserved)	<p>Connect to RS422 or RS485 Communication Device.</p> <table border="1" data-bbox="799 1373 1070 1664"> <tr><td><input type="radio"/></td><td>RS485-B</td></tr> <tr><td><input type="radio"/></td><td>RS485-A</td></tr> <tr><td><input type="radio"/></td><td>NA</td></tr> <tr><td><input type="radio"/></td><td>NA</td></tr> </table> <p>or</p> <table border="1" data-bbox="799 1709 1078 2000"> <tr><td><input type="radio"/></td><td>Rs422-Rx-B1</td></tr> <tr><td><input type="radio"/></td><td>Rs422-Rx-B2</td></tr> <tr><td><input type="radio"/></td><td>Rs422-Tx-A1</td></tr> <tr><td><input type="radio"/></td><td>Rs422-Tx-A2</td></tr> </table>	<input type="radio"/>	RS485-B	<input type="radio"/>	RS485-A	<input type="radio"/>	NA	<input type="radio"/>	NA	<input type="radio"/>	Rs422-Rx-B1	<input type="radio"/>	Rs422-Rx-B2	<input type="radio"/>	Rs422-Tx-A1	<input type="radio"/>	Rs422-Tx-A2																
<input type="radio"/>	RS485-B																																	
<input type="radio"/>	RS485-A																																	
<input type="radio"/>	NA																																	
<input type="radio"/>	NA																																	
<input type="radio"/>	Rs422-Rx-B1																																	
<input type="radio"/>	Rs422-Rx-B2																																	
<input type="radio"/>	Rs422-Tx-A1																																	
<input type="radio"/>	Rs422-Tx-A2																																	

6	Power Port	Connect to 12V DC.								
7	Access Control Output Port	Control NO/NC of door lock. <table border="1"> <tr> <td><input type="radio"/></td> <td>NO</td> </tr> <tr> <td><input type="radio"/></td> <td>NC</td> </tr> <tr> <td><input type="radio"/></td> <td>Public</td> </tr> <tr> <td><input type="radio"/></td> <td>GND</td> </tr> </table>	<input type="radio"/>	NO	<input type="radio"/>	NC	<input type="radio"/>	Public	<input type="radio"/>	GND
<input type="radio"/>	NO									
<input type="radio"/>	NC									
<input type="radio"/>	Public									
<input type="radio"/>	GND									

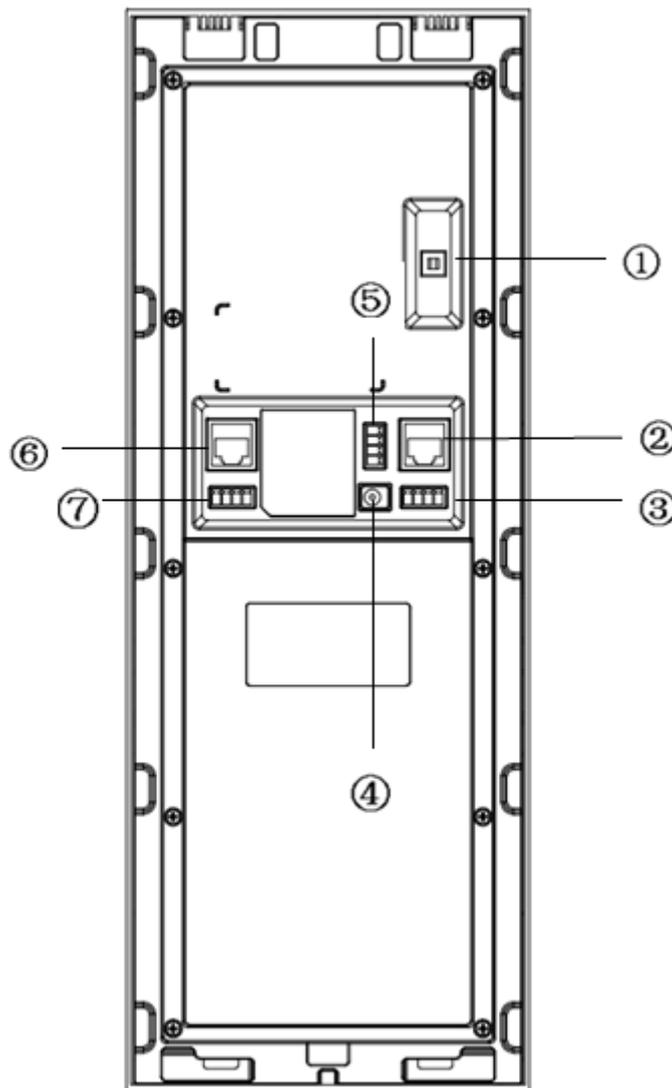


Figure 2- 1 VTO1210B(W)-X/VTO1210C-X/VTO1220B(W) rear structure

Please refer to the following sheet for detailed information.

SN	Port Name	Function																
1	Vandal Proof Alarm Button	It can generate an alarm when there is a vandal operation.																
2	Network Port	Connect to the RJ45 port.																
3	Access Control Input Port	Connect to signal from the door sensor, door on/off signal. <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>Unlock Button</td> <td>GND</td> <td>Door Sensor</td> <td>GND</td> </tr> <tr> <td style="text-align: center;">○</td> <td style="text-align: center;">○</td> <td style="text-align: center;">○</td> <td style="text-align: center;">○</td> </tr> </table>	Unlock Button	GND	Door Sensor	GND	○	○	○	○								
Unlock Button	GND	Door Sensor	GND															
○	○	○	○															
4	Power Port	Connect to 12V DC power.																
5	Access Control Output Port	Open or close the NO/NC lock. <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">○</td> <td style="text-align: center;">NO</td> </tr> <tr> <td style="text-align: center;">○</td> <td style="text-align: center;">NC</td> </tr> <tr> <td style="text-align: center;">○</td> <td style="text-align: center;">Public</td> </tr> <tr> <td style="text-align: center;">○</td> <td style="text-align: center;">GND</td> </tr> </table>	○	NO	○	NC	○	Public	○	GND								
○	NO																	
○	NC																	
○	Public																	
○	GND																	
6	Analog Signal Port	Connect to the analog signal of the distributor.																
7	RS485 Port	Connect to RS422 or RS484 communication device. <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>Rs485-B</td> <td>Rs485-A</td> <td>NA</td> <td>NA</td> </tr> <tr> <td style="text-align: center;">○</td> <td style="text-align: center;">○</td> <td style="text-align: center;">○</td> <td style="text-align: center;">○</td> </tr> </table> or <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>Rs422-Rx-B1</td> <td>Rs422-Rx-B2</td> <td>Rs422-Tx-A1</td> <td>Rs422-Tx-A2</td> </tr> <tr> <td style="text-align: center;">○</td> <td style="text-align: center;">○</td> <td style="text-align: center;">○</td> <td style="text-align: center;">○</td> </tr> </table>	Rs485-B	Rs485-A	NA	NA	○	○	○	○	Rs422-Rx-B1	Rs422-Rx-B2	Rs422-Tx-A1	Rs422-Tx-A2	○	○	○	○
Rs485-B	Rs485-A	NA	NA															
○	○	○	○															
Rs422-Rx-B1	Rs422-Rx-B2	Rs422-Tx-A1	Rs422-Tx-A2															
○	○	○	○															

Appendix 3 Installation

Please refer to the following sheet for detailed installation information. Please see Figure 3- 1 and Figure 3- 2 VTO1210B-X/VTO1220B installation guide.

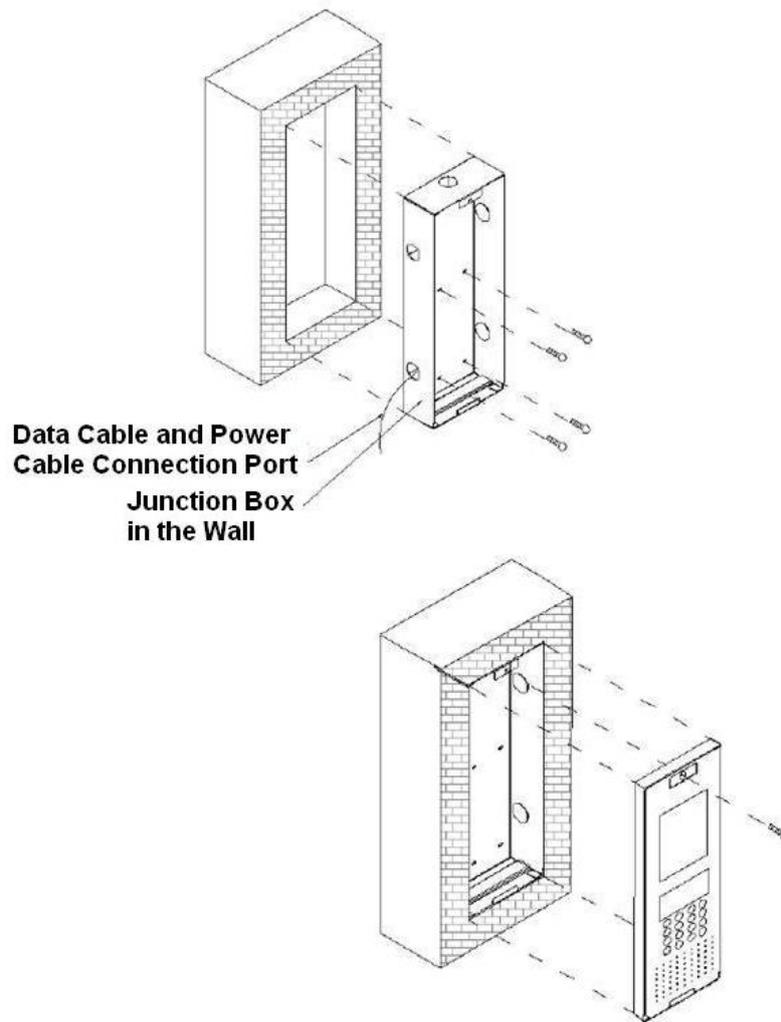


Figure 3- 1 VTO1210A/VTO1210A-X/VTO1220A installation guide

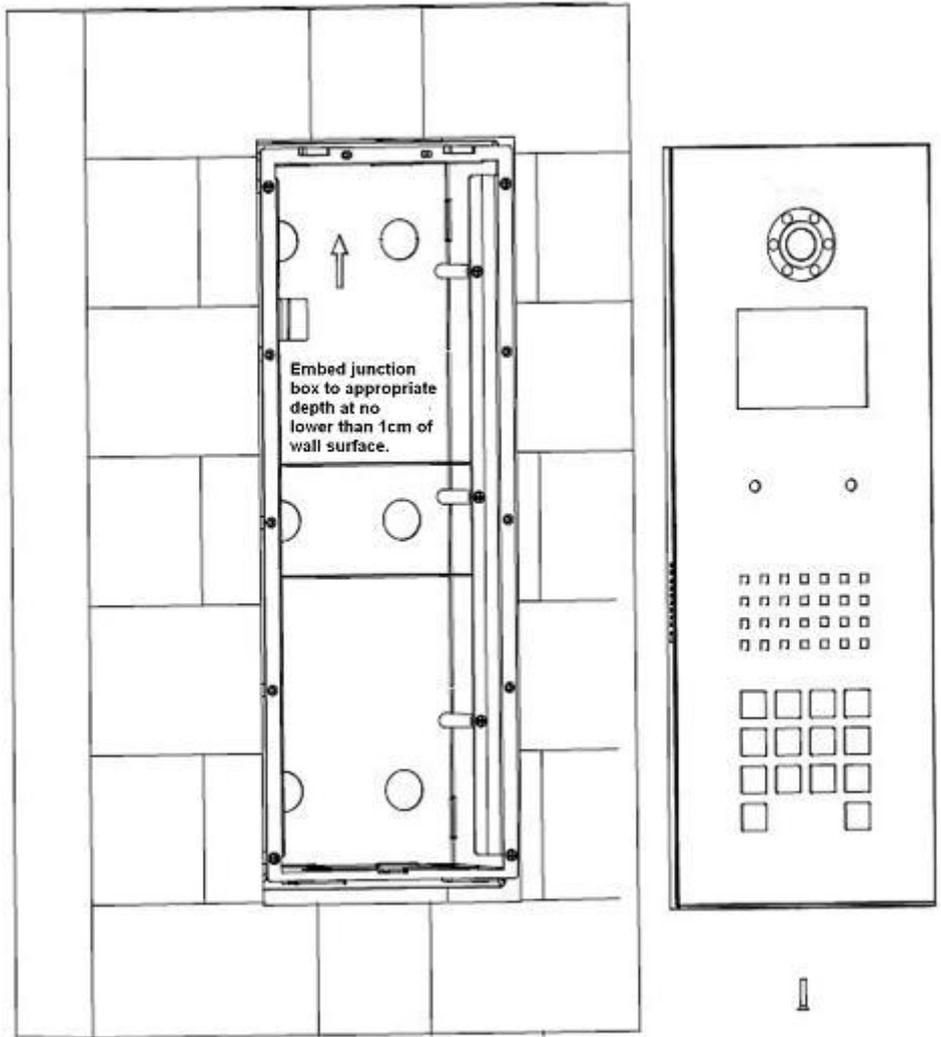


Figure 3- 2 VTO1210B-X/VTO1220B installation guide

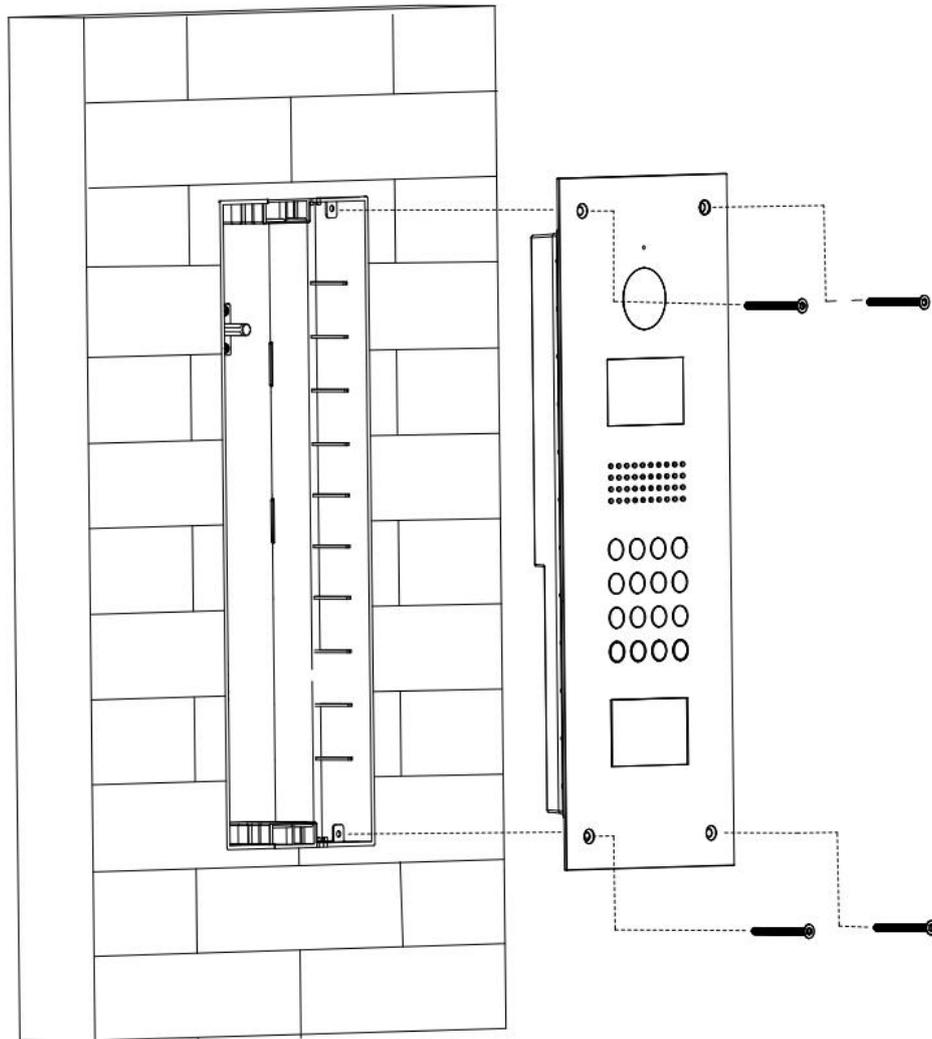


Figure 3- 3 VTO1210C-X installation guide

Note:

- This manual is for reference only. Slight difference may be found in user interface.
- All the designs and software here are subject to change without prior written notice.
- All trademarks and registered trademarks are the properties of their respective owners.
- If there is any uncertainty or controversy, please refer to the final explanation of us.
- Please visit our website or contact your local service engineer for more information.