

KX-VDP03GN User's Manual

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.

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1 Product Overview

1.1 Model List

This manual is designed for multiple product models, please read and check carefully for your product model and its functions.

Product Model	Housing Material	Color	Unlock via IC Card	Keypad	Control Module
VDP03GN	Metal	Metal grey	Support	Numeric keypad	Built-in

1.2 Structure

1.2.1 VDP03GN

1.2.1.1 Front Panel

Plug to power, system boots up and wait for 1 minute, screen turns on. System enters working interface, see Figure 1-1

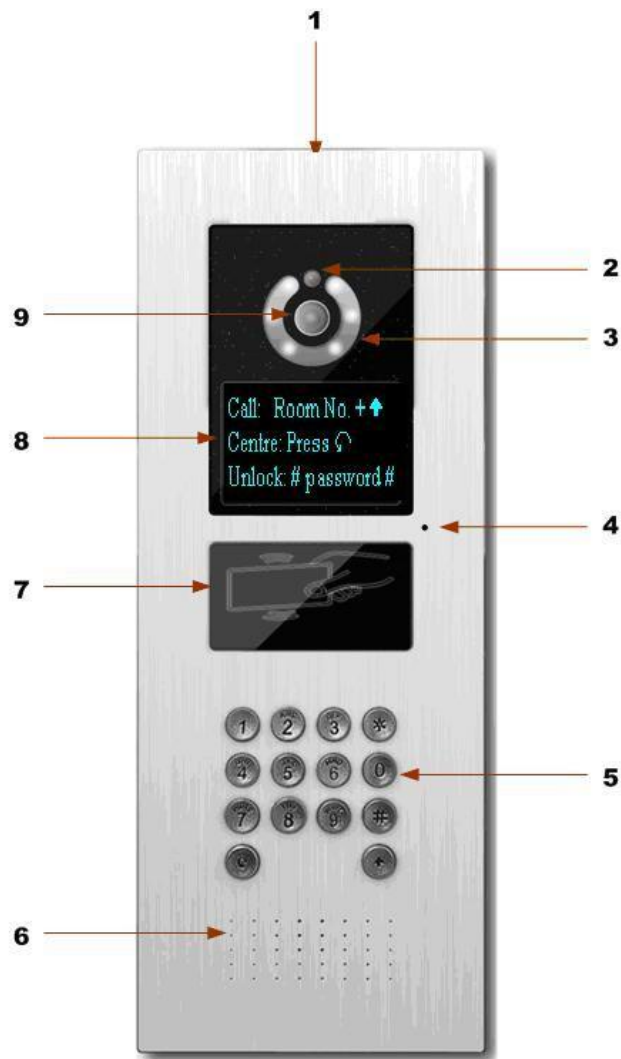














Figure 1-1

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

1.2.1.2 Rear Panel

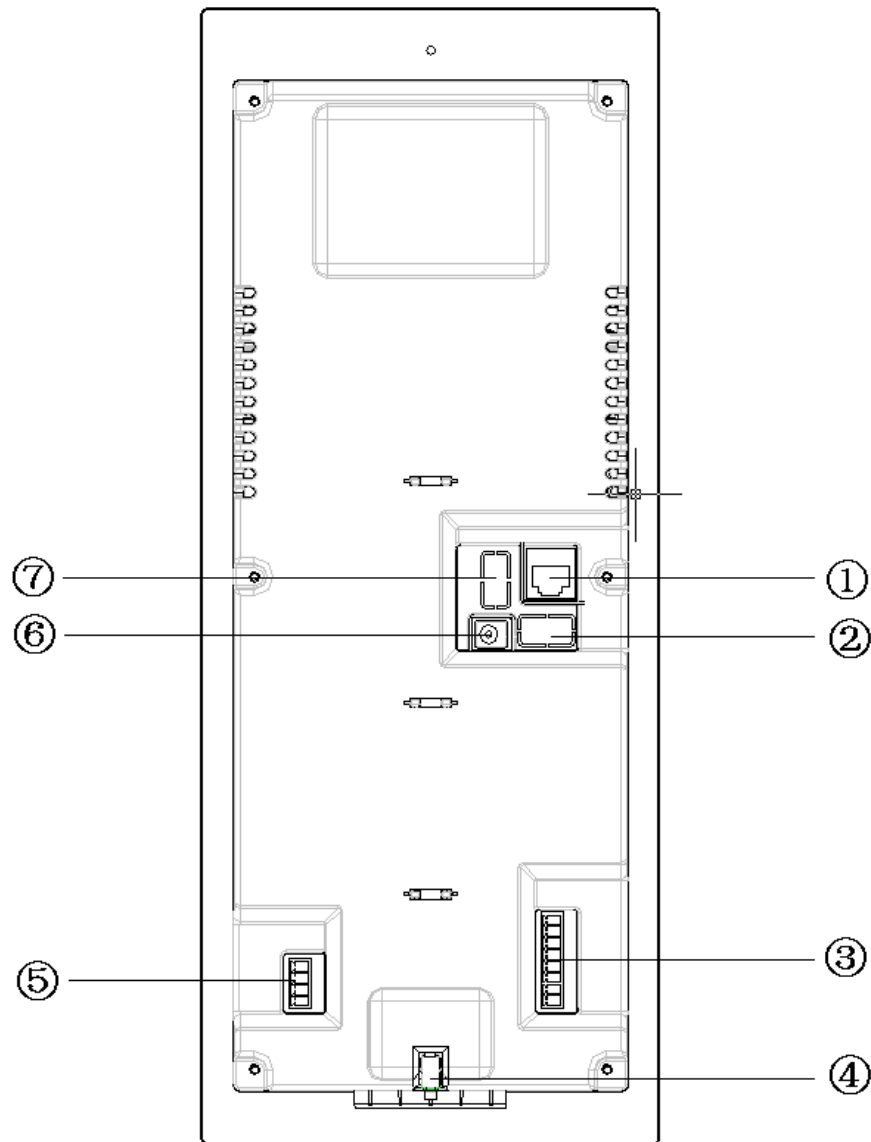














Figure 1-2

Please refer to the following sheet for detailed information.

SN	Port Name	Function								
1	Network Port	Connect to the RJ45 port.								
2	Access Control Input Port	<div>Connect to signal from the door sensor, door on/off signal.</div> <table><tr><td>Unlock Button</td><td>GND</td><td>Door Sensor</td><td>GND</td></tr><tr><td></td><td></td><td></td><td></td></tr></table>	Unlock Button	GND	Door Sensor	GND				
Unlock Button	GND	Door Sensor	GND							
										
3	Analog Signal Port	Connect to the analog signal of the								

		<div>distributor.</div> <div><table><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></div> <div>corresponds</div> <div><table><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></div> <div>to</div>	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)	<div>Connect to RS422 or RS485 Communication Device.</div> <div><table><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></div> <div>or</div> <div><table><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></div>	<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 enable or disable of NO/NC lock.	
		<input type="radio"/>	NO
		<input type="radio"/>	NC
		<input type="radio"/>	COM
		<input type="radio"/>	GND




2 Install VDP03GN

Unit VDP-G on-site installation includes: wall embedded installation, door embedded installation (with box/without box), standalone installation.

This chapter will introduce wall embedded installation of VDP03GN Series.

2.1 VDP03GN

2.1.1 Screw

Component	Screw No	Illustration	Quantity
ST3×18 Cross recessed pan head tapping screws –white alloy	Screw a		6
M3×16 Cross slot recessed pan head screws- zinc black	Screw b		1
White expansion pipe \varnothing 6×30mm	None		6

2.1.2 Installation Steps

Step 1. Fix metal housing on wall with screw a.

Step 2. Fix device on the metal housing with screw b.

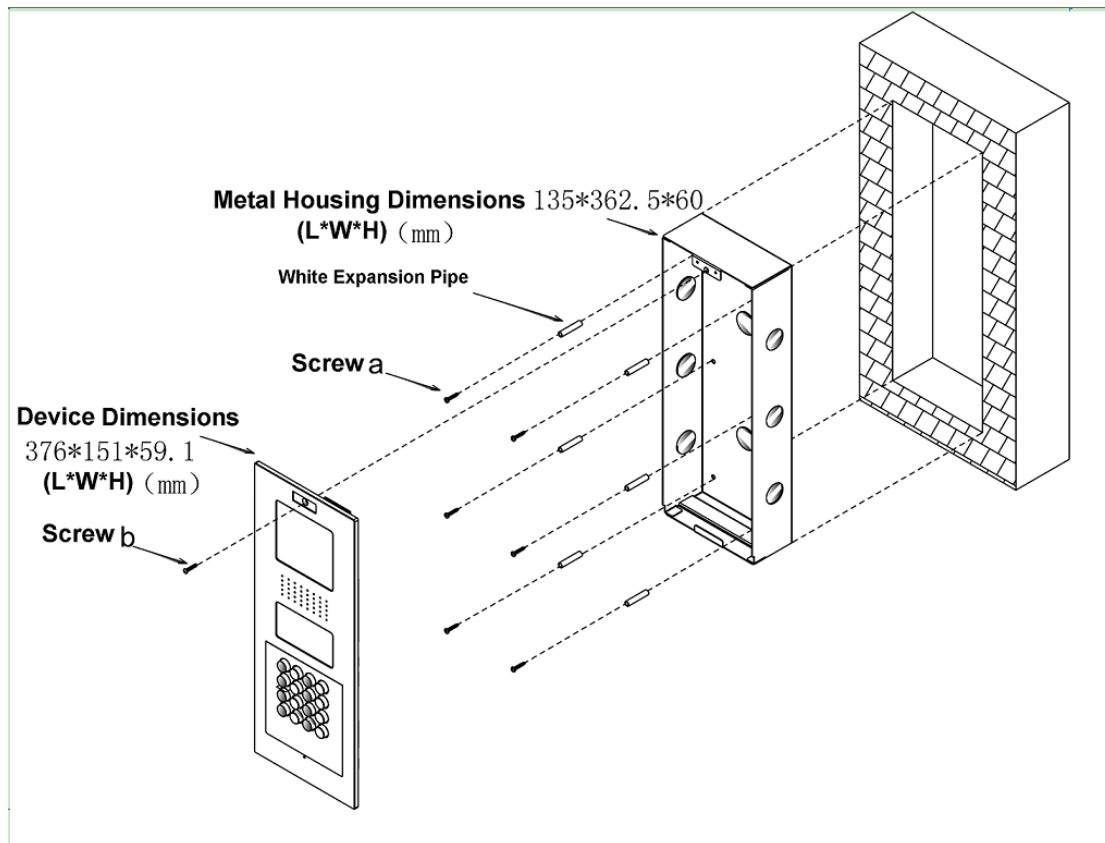


Figure 2-1

2.1.3 Wiring

Please refer to Ch 1.2.1.2.

3 Debug VDP-G

The VDP-G has digital system and analog system. Please read the following contents before installing system.

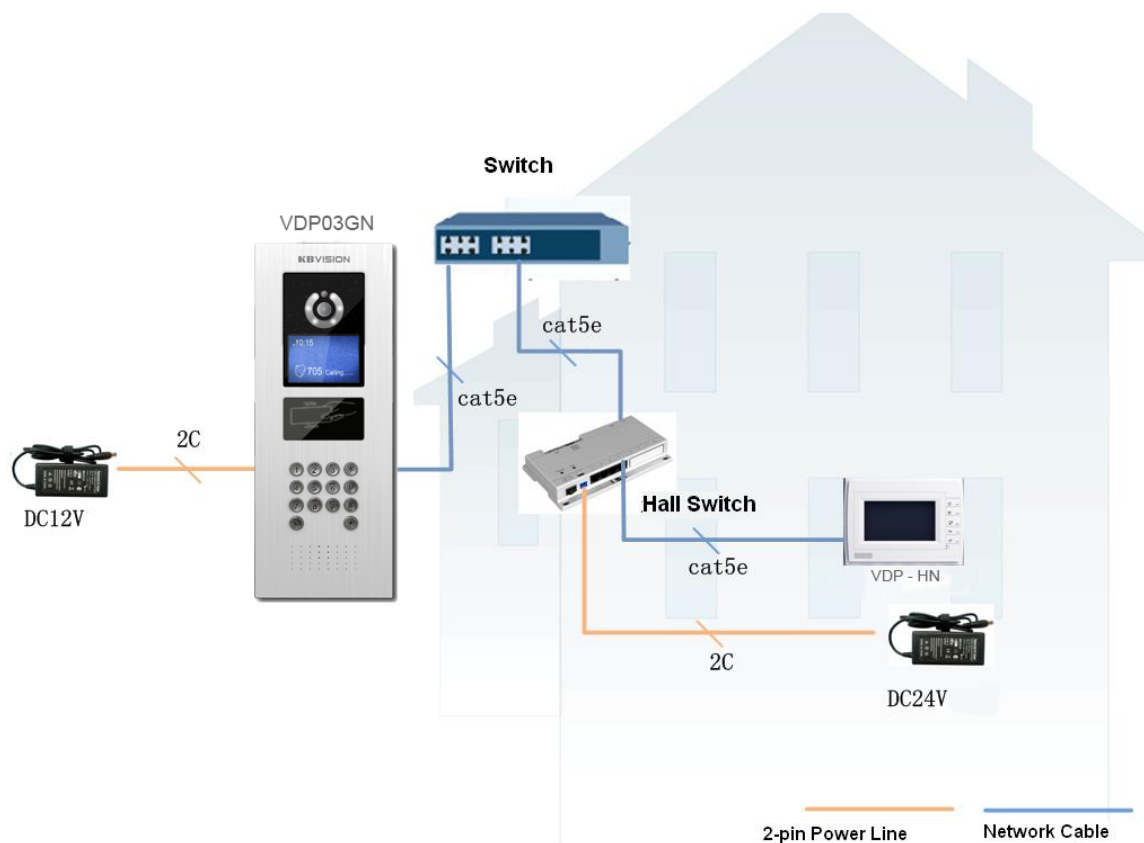


Figure 3-1

Note:

VDP-G port connects to IN port on switch. Among switch port 1-6, select any one port to connect to VDP-H which allows switch to power supply VDP-H.

3.2 Configure VDP03GN

Configure VDP info, make sure there is communication among center, VDP-G and VDP-H.

Note:

Access VDP WEB config interface via PC, and please make sure PC and VDP-G both connect to the Internet and are in the same segment.

Step 1. Login WEB. Please refer to Ch 4.1.1.

Step 2. Set unit VDP-G as SIP server. Please refer to Ch 4.2.4.3.

Step 3. Set device position and LAN.

- a) Select System Config>Local Config>LAN Config. System shows LAN Config page, see Figure 3-2.

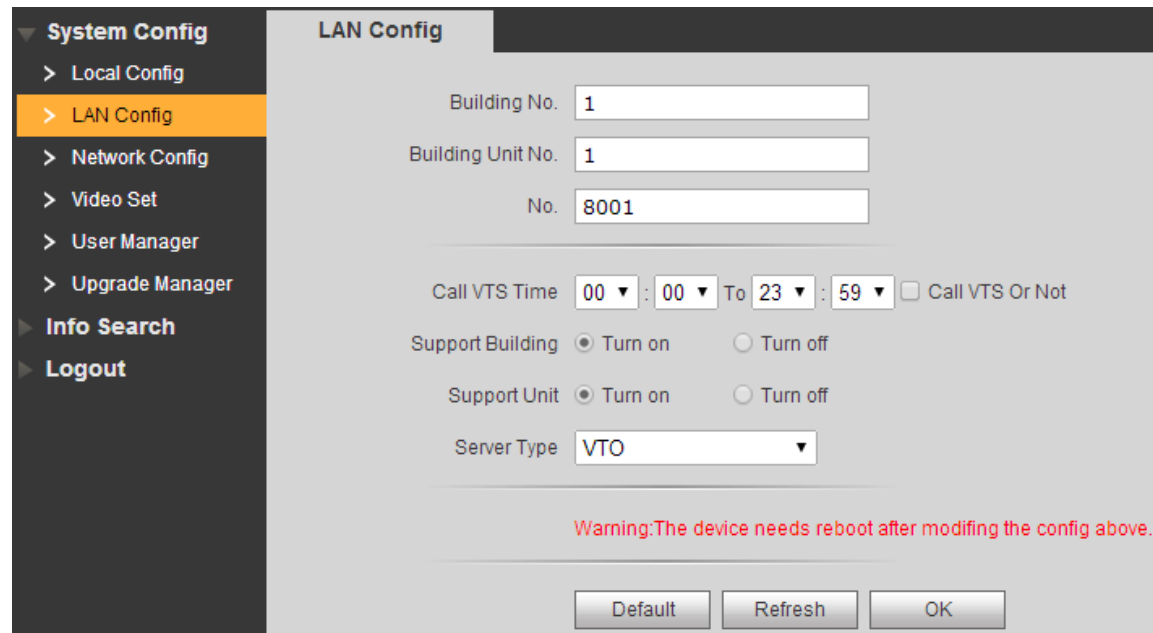


Figure 3-2

- b) Set building no., building unit no. and etc.
- c) Check “Call VTS or Not”, enable call to MGT center during the set time, do not call VDP-H.
- d) Click OK.

Step 4. Add digital VDP-H. Please refer to Ch 4.2.3.2.

Step 5. Set router. Please refer to Ch 4.2.4.4.

3.3 Configure VDP-H

Step 1. In digital VDP-H Project Setting interface, enter project setting password which is 888888 by default.

Step 2. In Local Info interface, enter room no.

Warning:

Digital VDP-H room no. must match VDP-H short no. set on WEB of VDP-G.

Step 3. In Net interface, fill in VDP-G name, VDP-G IP address, and set Enable status to enabled.


Note:

Please refer to VDP-H user’s manual.

Step 4. In SIP Server interface, fill in SIP server IP address, network port and etc. Set enable status to enabled status.

- When unit VDP-G is used as SIP server, fill in unit VDP-G IP address.
 - When unit VDP-G is not used as SIP server, fill in other SIP server IP address.
- VDP-G SIP server setup refers to Ch 4.2.4.3.

3.4 Result Test

- On VDP-H, press monitor button to monitor VDP-H video.
- On VDP-G, press room no.  to call corresponding VDP-H.

4 Web Function

4.1 Login/Logout

Different devices have different WEB display and functions, please subject to actual product.

4.1.1 Login

Step 1. In Internet Explorer, input VDP-G IP address as in Figure 4-1.



Figure 4-1

Step 2. You must input username and password in order to login WEB main interface.

Note:

Default username: admin

Default password: admin.

Please change password after first time login. Refer to Ch 4.2.6.3.

Step 3. Click Login.

4.1.2 Logout

Step 1. Select Logout>Logout>Logout. See Figure 4-2.

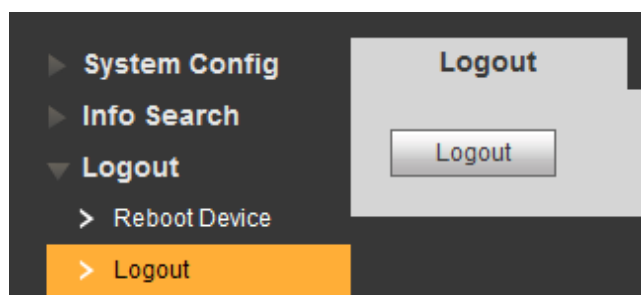


Figure 4-2

Step 2. Click Logout.

System exits WEB interface, returns to login interface. You also can reboot device in Logout>Reboot>Reboot interface.

4.2 System Config

4.2.1 Local Config

You can set local, access control, talk and etc. in Local Config interface.

4.2.1.1 Local Config

In page, select System Config>Local Config. Set parameter, and click on OK. See Figure 4-3.

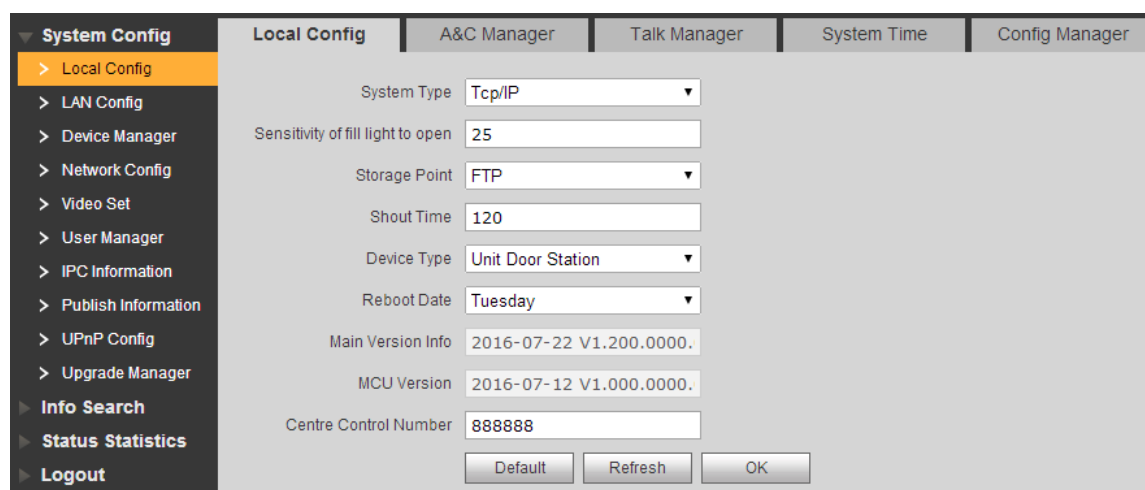


Figure 4-3

Parameter	Note
System Type	Unit VDP scene includes digital system networking and analog system networking. You can select corresponding system type.

Sensitivity of fill light to open	During video talk, if environment is dark, auto enables light.
Storage Point	Record, snapshot and other info can be stored in FTP server. Please refer to Ch 4.2.4.2.
Shout Time	Set VDP-H or MGT center call time with VDP-G.
Device Type	Display device type. Now it is unit VDP-G.
Reboot Date	In set date, device will reboot.
Main Version Info	View software version.
MCU Version	Show MCU version, for troubleshooting.
Centre Control Number	Default is 888888.
Default	Click Default to restore all parameters in this page to default.
Refresh	Click Refresh to refresh this page.
OK	Click OK to confirm page content.

4.2.1.2 A&C Manager

Go to System Config>Local Config>A&C Manager, you can set unlock responding interval, unlock period and etc.

See Figure 4-4.

Figure 4-4

Parameter	Note
Unlock Responding Interval	After being unlocked, interval before device responds to next unlock. Unit is second.
Unlock Period	After respond and unlock, time the door remained unlocked. Unit

	is second.
Door Sensor Check Time	Only when using door sensor lock, check “Check Door Sensor Signal Before Lock”, valid only when “door sensor check time” is set. When door open time exceeds set door sensor check time, and alarm occurs, you can view uploaded alarm in Info Search>Alarm Info>Alarm Info.
Check Door Sensor Signal Before Lock	
Open Door Command	Command from third party VDP.
Issue Card Password	Issue card password which may be changed.
Project Password	Enter project setup interface with this password, it is 888888 by default, may be changed.
Lift Control Protocol	Include local protocol and etc. Protocol can set floor reach by user. Check and enable lift control.
Lift Control Enable	
New Unlock Password	Check “Common Password Enable” to enable a consistent password, so each user can unlock with this new password.
New Unlock Password Confirm	
Common Password Enable”	
New Menace Password	Check “Menace Password Enable” to enable unlock function. In emergency, if you enter menace password, the device will report menace info to the MGT center.
New Menace Password Confirm	
Menace Password Enable	
Auto Snapshot	Once enabled, it will auto snapshot if you unlock via card, password. It also uploads snapshot to FTP.
Default	Restore all device parameters in the tab to default setting.
Refresh	Click Refresh to refresh the page.

4.2.1.3 Talk Manager

In System Config>Local Config>Talk Manager interface, you can set auto snapshot, publish overlay and etc. See Figure 4-5.

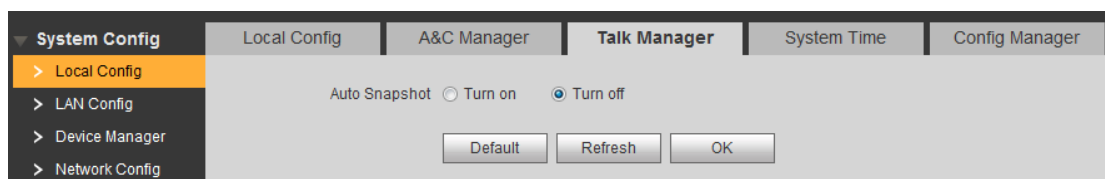


Figure 4-5

Parameter	Note
Auto Snapshot	Select “Turn on”, so when a user calls, it will snapshot once and upload to FTP.
Analog Publish Overlaying	Select “Turn on”, publish info auto overlays to System Config >Video Set > Video Set preview, and roll.
Remove Publish Info	Click “Remove Publish Info”, delete all info in System Config> Publish Info > History.
Default	Click “Default”, to restore all parameters in this page to default.
Refresh	Click “Refresh”, to refresh this page.

4.2.1.4 System Time

In page, select System Config>Local Config>System Time.

Set date format, time format and system time. Click on OK as complete setup. Or click on Sync PC to make VDP-G time same as PC time. See Figure 4-6.

The screenshot shows the 'System Time' configuration page. On the left is a sidebar with 'System Config' expanded, showing 'Local Config' selected. The main area has tabs for 'Local Config', 'A&C Manager', 'Talk Manager', 'System Time' (active), and 'Config Manager'. Under 'System Time', there are fields for 'Date Format' (Day-Month-Year), 'Time Format' (24-Hour Standard), and 'System Time' (22 - 07 - 2016 5 : 54 : 54) with a 'Sync PC' button. Below these is a section for 'NTP Config' which is checked. It includes fields for 'NTP Server' (200.160.0.8), 'Zone' (GMT+00:00), 'Port' (123), and 'Update Period' (5 Minute). At the bottom are 'Default', 'Refresh', and 'OK' buttons.

Figure 4-6

Parameter	Note
Date Format	Set date format of display.
Time Format	Set time format of display as 12-hour and 24-hour.
System Time	Set system display time.
Sync PC	Click “Sync PC”, to sync system time with PC time.
NTP Config	Check “NTP Config”, to enable NTP server net sync time.
NTP Server	You also can enter IP, zone, port and upgrade period (1min ~30min) of PC where NTP server is installed to set net time sync. Note: This device only supports TCP transmission, and port limit is 123.
Zone	
Port	
Upgrade Period	
Default	Click “Default”, to restore all parameters in this page to default.
Refresh	Click “Refresh”, to refresh this page.

4.2.1.5 Config Manager

In page, select System Config>Local Config>Config Manager. Here you can set export config, import config and default. See Figure 4-7.

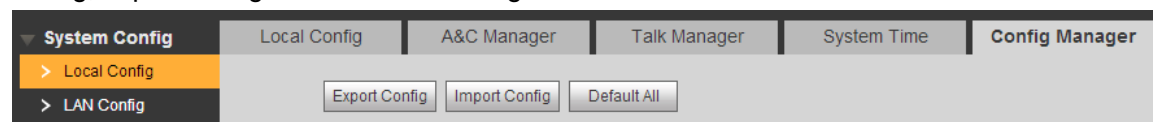


Figure 4-7

Paraemter	Note
Export Config	Import or export system config file, when more than one device need to set the same parameter, a user can backup config file. <ul style="list-style-type: none">● Export config file (Config.backup) .● Import config file.
Import Config	
Default All	Device all parameters will be restored to default. Warning: Please back up first before perform this operation.

4.2.2 LAN Config

In page, select System Config>LAN Config, you can set VDP-G DND time as to call VTS time and group call and etc. See Figure 4-8.

After you have set config, go to Logout>Reboot>Reboot, click Reboot Device to make config effective.

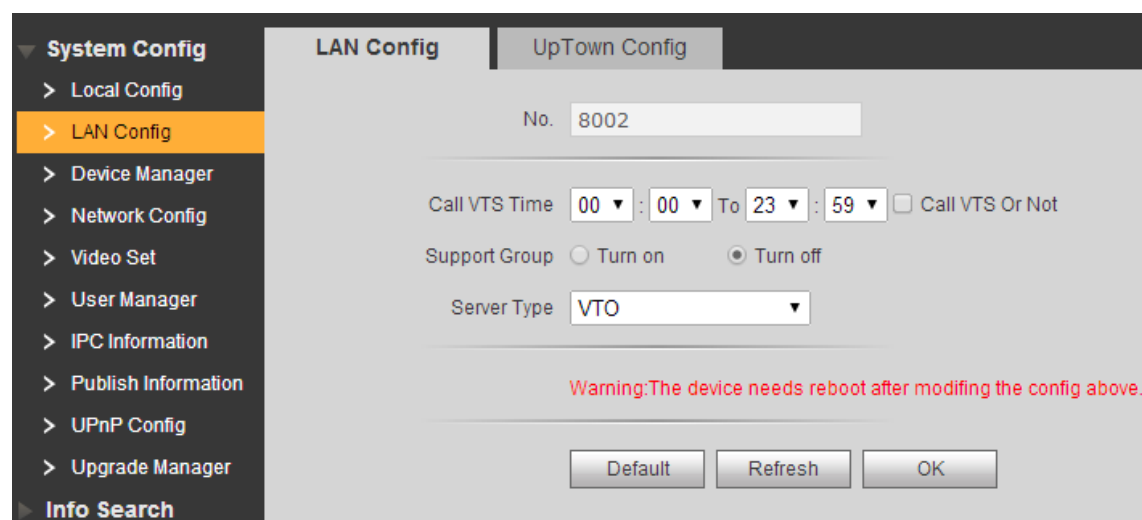


Figure 4-8

Parameter	Note
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Parameter	Note
No.	Unit VDP-G no. Note: If the device is SIP server, a user can edit this no. SIP server setup refers to Ch 4.2.4.3.
Call VTS Time	Check “Call VTS or Not”, to enable that the device only calls VTS, and does not call VDP-H within this period.
Call VTS or Not	
Support Group	Select “Enable”, to call all VDP-Hs in this room.
Server Type	Select server type of device. If this device is SIP server, select VDP-G for server type.
Default	Click “Default”, to restore all parameters in this page to default.
Refresh	Click “Refresh”, to refresh this page.

4.2.3 Device Manager

Note:

Visible if this device is used as SIP server.

Support to add, modify and delete VDP-G and VDP-H. One VDP-G supports more than one VDP-H.

4.2.3.1 Outdoor Station Manager

Note:

If the device is used as SIP server, then added VDP-G will be a sub VDP-G of this VDP-G.

Step 1. Select System Config>Device Manager>Outdoor Station Manager.

System shows Outdoor Station Manager interface.

Step 2. Click OK. System shows Add interface.

Step 3. Fill in VDP-G no., format is “80XX” and VDP-G IP address (optional).

See Figure 4-9.

The screenshot shows a software dialog box titled "Add". It contains the following fields and values:

- No.:** 8003
- Register Password:** Masked with seven dots (•••••••)
- Building No.:** (Empty)
- Building Unit No.:** (Empty)
- IP Address:** 127.0.0.1

At the bottom of the dialog are two buttons: "OK" and "Cancel".

Figure 4-9

Step 4. Click OK, to complete.
See Figure 4-10.

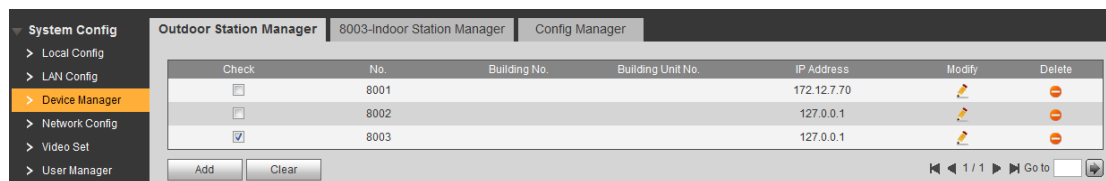




Figure 4-10

Click  to modify VDP-G parameter info. Click  to delete added VDP-G.

4.2.3.2 Indoor Station Manager

Warning:

After you have added a single VDP-H, we do not recommend you to batch add VDP-H, since this operation will overwrite original VDP-H. Please add VDP-H one by one after batch operation.

You can add VDP-H via either method below:

- Add one VDP-H

Step 1. Select System Config>Device Manager>Outdoor Station Manager. System shows Outdoor Station Manager interface.

Step 2. Check VDP-H you want to add VDP-H, such as 8001.

Step 3. Select “8001-indoor station manager” tab.

Step 4. Click Add. System shows Figure 4-11.

Figure 4-11

Step 5. Configure parameters, see chart below.

Parameter	Note
Family Name	Set VDP-H username.
First Name	
VDP-H Short No.	<p>As VDP-H room no. Note:</p> <ul style="list-style-type: none"> VDP-Hshort no. is composed of 1-5 digits of number. If your VDP-H room no. need group call function, please make sure to have enabled group call in System Config>LAN Config>LAN Config, and add “-0” behind VDP-H short no., add-“1”, “1” and so forth behind extension short no. Otherwise, VDP-H will only calls main VDP-H when dial the room no.
Open Door Password	Unlock password of VDP-G correspond to the VDP-H.
Register Password	SIP system signal command interacting, use default is OK.
Register Type	

Step 6. Click OK, to complete VDP-H see Figure 4-12.

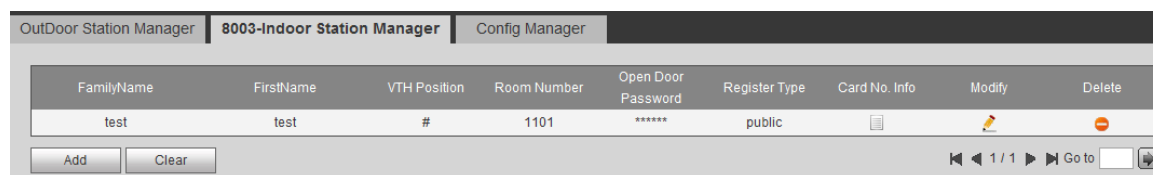


Figure 4-12

- Batch add VDP-H

Batch add multiple VDP-Hs, up to 1024. For example, add 5 floors and each floor has 4 VDP-H.

Step 1. Select System Config>LAN Config>Residence Config. System shows Residence Config interface.

Step 2. Configure parameter, see Figure 4-13.

System Config

> Local Config

> LAN Config

> Device Manager

> Network Config

> Video Set

> User Manager

> IPC Information

> Publish Information

> UPnP Config

> Upgrade Manager

Info Search

Status Statistics

Logout

LAN Config

Residence Config

Begin Building No.

0

Begin Unit No.

0

Unit Layer Amount

5

Room Amount in One Layer

4

First room of floor 1

1101

First room of floor 2

1201

☒ Creat Room No.

remind:auto to build rooms need much time!

Default

Refresh

OK

Figure 4-13

Step 3. Check Create Room No., to enable batch add VDP-H.

Step 4. Click OK.

See Figure 4-14.

FamilyName	FirstName	VTH Position	Room Number	Open Door Password	Register Type	Card No. Info	Modify	Delete
		#	1101	*****	public			
		#	1102	*****	public			
		#	1103	*****	public			
		#	1104	*****	public			
		#	1201	*****	public			
		#	1202	*****	public			
		#	1203	*****	public			
		#	1204	*****	public			
		#	1301	*****	public			
		#	1302	*****	public			
		#	1303	*****	public			
		#	1304	*****	public			
		#	1401	*****	public			
		#	1402	*****	public			
		#	1403	*****	public			
		#	1404	*****	public			
		#	1501	*****	public			
		#	1502	*****	public			
		#	1503	*****	public			
		#	1504	*****	public			



Add

Clear

1 / 1

Go to

Figure 4-14

Click  to modify VDP-H username, password, registration and its password. Click  to delete VDP-H.


Tips:

If your VDP-H room no. need group call function, please make sure you have enabled group call in System Config>LAN Config>LAN Config, and add “-0” behind VDP-H short no., add “-1”, “-1” and so forth behind extension short no. Please refer to Ch 4.2.3.2.

4.2.3.3 Card Manager

Warning:

Please add VDP-H first and then issue card. Please refer to Ch 5.5.

In Figure 4-14, click , to view all issued cards under this VDP-H, see Figure 4-15 and chart below.







Card Info ✕						
Card ID	Card Number	Username	Main Card	ReportLoss	Modify	Delete
9901	81E35944		<input type="checkbox"/>			

Figure 4-15

Parameter	Note
Card ID	Show IC card's card ID, username and VDP-H room. No.
Card Number	
Username	
Main Card	Check “main card”, set this IC card as main card. Note: Main card can issue card.
Report Loss	When IC card is lost, click  to report loss. After reporting loss, the IC card cannot unlock door.
Modify	Click  , to modify this IC card username.
Delete	Click  , to delete this IC card.

4.2.3.4 Config Manager

You can import or export system config file, when more than one device need to set same parameter, you can use backup config file.

Step 1. Select System Config>Device Manager>Config Manager.

See Figure 4-16.

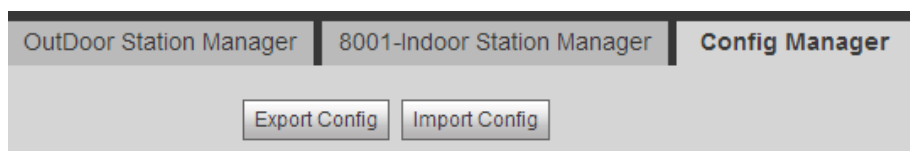


Figure 4-16

Step 2. Config import/export.

- Config export.
 1. Click "Export Config". System shows Export box, see Figure 4-17.

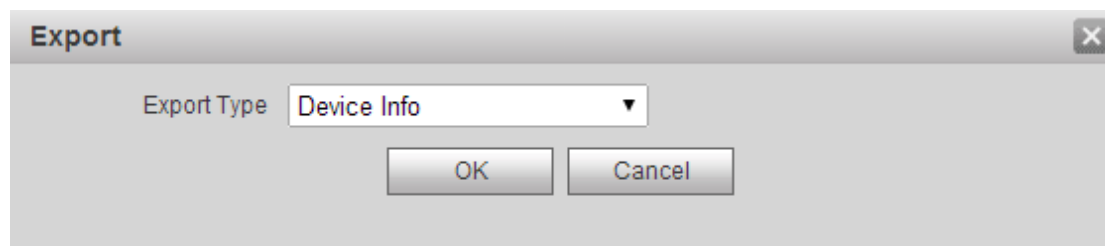


Figure 4-17

2. Select export type you need to export (device info/card info/password info).
3. Click OK.

System prompts "operation is successful.", export is complete.

- Config import
 1. Click "Import Config". System shows Import box.
 2. Select config file (.log) you need to import, click Open.

System prompts "operation is successful.", import is complete.

4.2.4 Network Config

4.2.4.1 TCP/IP

Go to System Config>Network Config>TCP/IP interface, you can set VDP-G IP address, subnet back, default gateway, see Figure 4-18.

Please refer to chart below. After config is complete, WEB interface and VDP-G will both reboot. After a while, WEB interface directly goes to new IP address.

You also can modify VDP-G IP in Project Setup>IP Setup local interface.

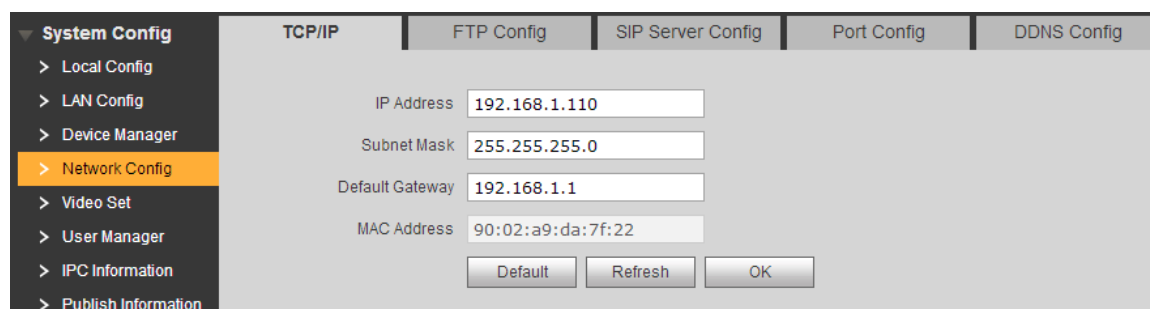


Figure 4-18

Parameter	Note
IP Address	Enter number as IP address.
Subnet Mask	According to actual condition, subnet mask prefix is number, enter 1~255, part of subnet prefix is a special network link, which in general include a layer structure.
Default Gateway	According to actual condition, it must be in the same segment with IP address.
MAC Address	Show device MAC address.
Default	Click "Default", to restore all parameters in this page to default.
Refresh	Click "Refresh", to refresh this page.

4.2.4.2 FTP Config

Back up record and picture to set FTP server for storage and view.

Note:

FTP is enabled by default.

Step 1. Select System Config>Network Config>FTP Config. See Figure 4-19.

Figure 4-19

Step 2. Configure interface parameter, see chart below.

Parameter	Note
IP Address	Host IP address where FTP is installed.
Port No.	Default is 21.
Username	Username and password to access FTP server.
Password	

Step 3. Click OK, to complete FTP setup.

4.2.4.3 SIP Server

- When unit VDP-G is as SIP server, one SIP server can manage 200 units of device. Set the device to be SIP server, operation as follows:

Step 1. Select System Config>Network Config>SIP Server. See Figure 4-20.

The screenshot shows the 'SIP Server Config' tab selected in the 'System Config' menu. The left sidebar lists various configuration options, with 'Network Config' highlighted. The main area contains fields for 'IP Address' (192.168.1.111), 'Port' (5060), 'Username' (8001), 'Password' (masked with dots), and 'SIP Domain' (VDP). A checkbox labeled 'Sip Server Enable' is checked. A red warning message at the bottom states: 'Warning: The device needs reboot after modifying the SIP server enable.' Below the warning are buttons for 'Default', 'Refresh', and 'OK'.

Figure 4-20

Step 2. Check "SIP Server Enable", to enable the device as SIP server.

After complete, unit VDP-G will reboot.

- When unit VDP-G is not as SIP server, you can select other SIP server, and setup as follows:

Step 1. Select System Config>Network Config>SIP Server Config.

System shows SIP Server Config interface.

Step 2. Enter SIP server IP address, port, username (unit VDP-G no.), password and SIP domain. (optional)

Step 3. Click OK.

4.2.4.4 Port Config

Step 1. Select System Config>Network Config>Port Config. See Figure 4-21.

The screenshot shows the 'Port Config' tab selected in the 'System Config' menu. The left sidebar lists various configuration options, with 'Network Config' highlighted. The main area contains fields for 'WEB Port' (80), 'SIP Port' (5060), and 'RTP Port' (15000). A checkbox labeled 'Sip Router Add.' is checked. A red warning message at the bottom states: 'Warning: The device needs reboot after modifying the config above.' Below the warning are buttons for 'Default', 'Refresh', and 'OK'.

Figure 4-21

Step 2. Configure parameter, see chart below.

Parameter	Note
WEB Port	Set port to login unit VDP-G WEB interface, default is 80; you also can go to VDP-G host “project setting > WEB port” to view WEB port no. If the port is occupied, you can use 1025~65535 range, in browser enter Figure 4-21 to visit VDP-G WEB interface.
SIP Port	SIP server port, default is 5060.
RTP Port	Video pull stream port, default is 15000.
SIP Router Add	Check “Enable” to enable router function.
Setting	Click “router setup”, in pop-up box enter H700 platform IP address, port no. is 5080.

Step 3. Click OK.

4.2.4.5 DDNS Config

DDNS (Dynamic Domain Name Server) , is dynamic upgrade of domain name and IP address of DNS server when device IP address is changing frequently. This can guarantee user access to device via domain name.

Warning:

- Before config, please make sure the device support DNS type, and login corresponding DDNS username, password and etc.
- User register on DDNE website and login, thus can view all connected device info under this user.

Step 1. Select System Config>Network Config>DDNS. See Figure 4-22.

The screenshot shows the 'DDNS Config' tab selected in the 'System Config' menu. The interface includes a sidebar with navigation options like 'Local Config', 'LAN Config', 'Device Manager', 'Network Config' (highlighted), 'Video Set', 'User Manager', 'IPC Information', 'Publish Information', 'UPnP Config', 'Upgrade Manager', 'Info Search', 'Status Statistics', and 'Logout'. The main configuration area has tabs for 'TCP/IP', 'FTP Config', 'SIP Server Config', 'Port Config', and 'DDNS Config'. The 'DDNS Config' section contains the following fields and controls:

- ☐ Enable
- Server Type: NO-IP DDNS (dropdown menu)
- Server Name: dynupdate.no-ip.com
- Server Port: 80 (range 1~65535)
- Domain: none
- User: none
- Password: masked with dots
- DDNS Live Time: 5 (range 1~500) Sec
- Buttons: Default, Refresh, OK

Figure 4-22

Step 2. Check Enable to enable DDNS server function.

Step 3. Config parameter, refer to chart below.

Parameter	Note
-----------	------

Parameter	Note
Server Type	DDNS server provider name and address, corresponding relation as follows.
Server Name	
Server Port	DDNS server port.
Domain	User registered domain on DDNS server provider website.
User	Enter username and password received from DDNS server provider. User shall register on DDNS server provider website (username and password included).
Password	
DDNS Live Time	DDNS server live time.

Step 4. Click OK, to complete DDNS server setup.

In PC web browser enter domain name, and press Enter. If it shows device WEB page, the operation is successful. If not, config failed.

4.2.5 Video Set

4.2.5.1 Video Set

In page, select System Config>Video Set>Video Set.

You can set camera brightness, contrast, HUS and etc. See

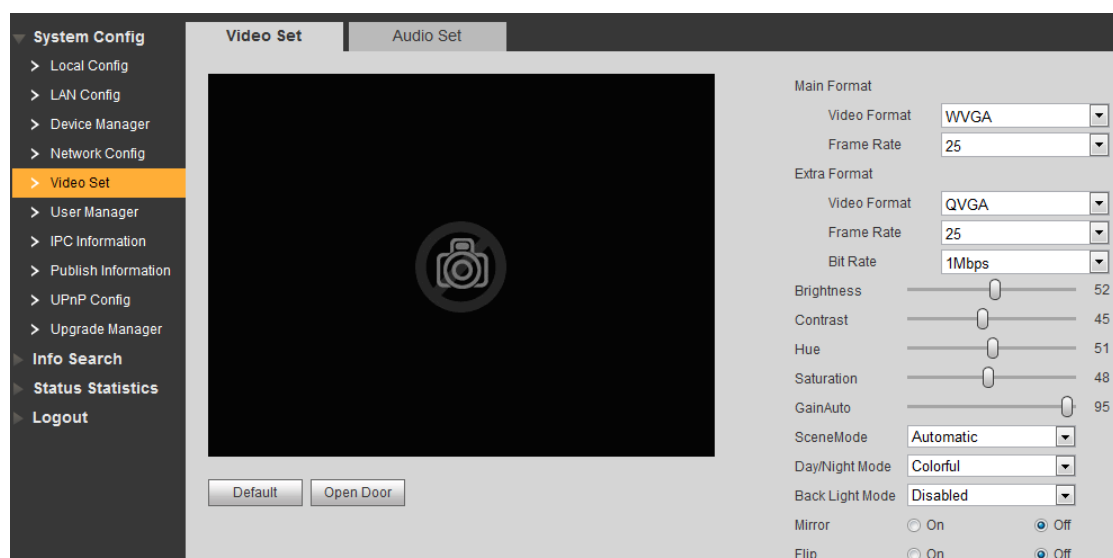


Figure 4-23

Note:

If you cannot see video, please install plug in first.

Parameter		Note
Main Format	Video Format	Adjust video resolution, as WVGA and D1. <ul style="list-style-type: none">● WVGA: resolution is 800×480.● D1: resolution is 720×576.
	Frame Rate	Adjust video transmission speed, as 3 and 25, 30 fps.
Extra Format	Video Format	Adjust video resolution, as WVGA and D1, QVGA: <ul style="list-style-type: none">● WVGA: resolution is 800×480.● D1: resolution is 720×576.● QVGA: : resolution is 320×240.
	Frame Rate	Adjust video transmission speed, as 3 and 25, 30 fps.
	Bit Rate	According to actual device input network, select bit rate, as 256Kbps, 512Kbps, 1Mbps, 2Mbps and 3Mbps.
Brightness		Adjust video brightness
Contrast		Adjust video contrast
HUE		Adjust video HUE
Saturation		Adjust video saturation
Gain Mode		Auto mode: system automatically adjusts.
Scene Mode		Includes: disabled, automatic, sunny and night.
Day/Night Mode		Includes: colorful, automatic, black white.
Back Light Mode		Four modes available:
Mirror		Horizontally flip video.
Flip		Vertically flip video.
Default		Restore all parameter in video set tab to default.
Unlock		Click on unlock to remotely unlock door lock.

4.2.5.2 Audio Set

Go to System Config>Video Set>Audio Set interface, you can set MIC volume and beep volume. See Figure 4-24.

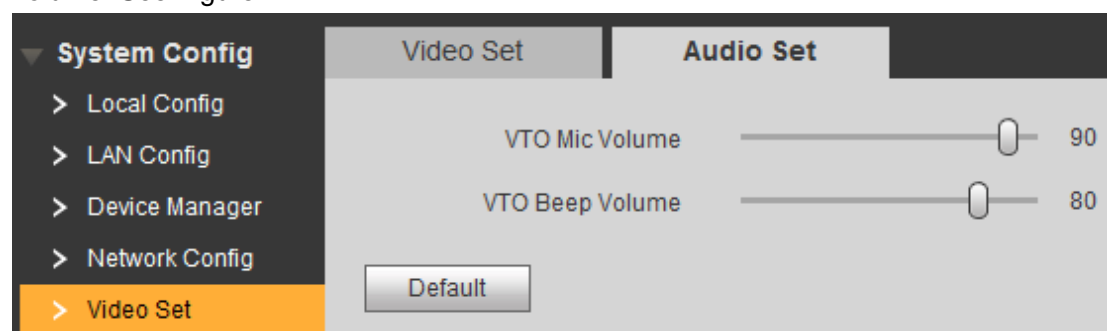


Figure 4-24

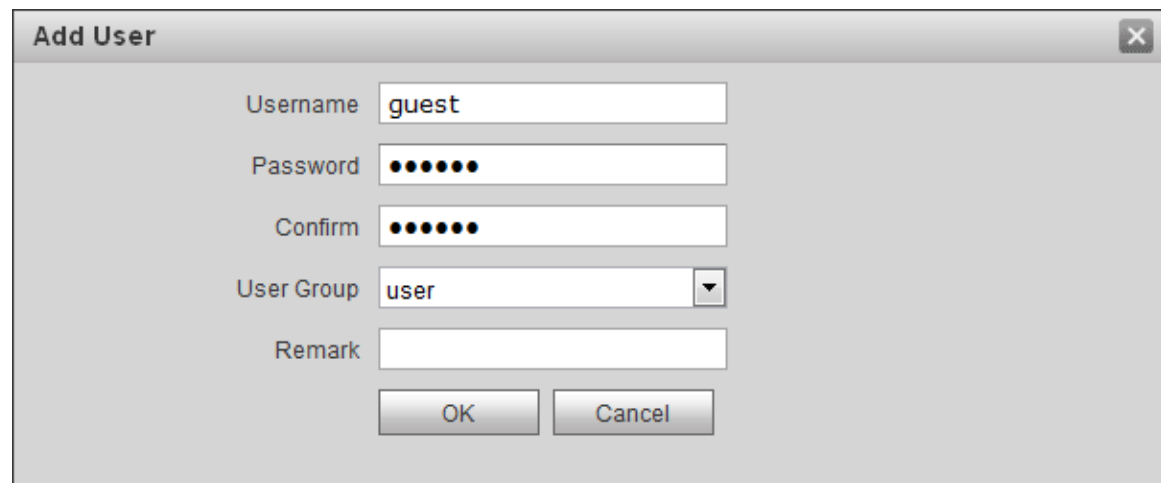
4.2.6 User Manage

4.2.6.1 Add User

Step 1. In page, select System Config>User Manager.

Step 2. Click on Add User.

Step 3. In pop-up box fill in user info. See Figure 4-25.

A screenshot of a web-based 'Add User' dialog box. The dialog has a title bar with a close button (X). Inside, there are five input fields: 'Username' with the text 'guest', 'Password' with seven dots, 'Confirm' with seven dots, 'User Group' with a dropdown menu showing 'user', and 'Remark' which is empty. At the bottom are 'OK' and 'Cancel' buttons.

Username	guest
Password	•••••••
Confirm	•••••••
User Group	user
Remark	

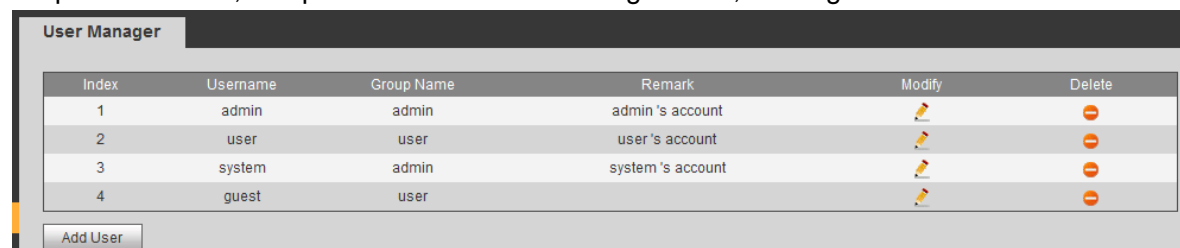
Figure 4-25

Note:

Currently the system supports two user types: admin and user.

- Admin has higher rights with full operation rights.
- User can only view system configuration, unlock, export record, send publish info and modify user password.


Step 4. Click OK, complete WEB interface adding of user, see Figure 4-26.

A screenshot of the 'User Manager' web interface. It features a table with columns: Index, Username, Group Name, Remark, Modify, and Delete. There are four rows of user data. Below the table is an 'Add User' button.


Index	Username	Group Name	Remark	Modify	Delete
1	admin	admin	admin's account		
2	user	user	user's account		
3	system	admin	system's account		
4	guest	user			

Figure 4-26

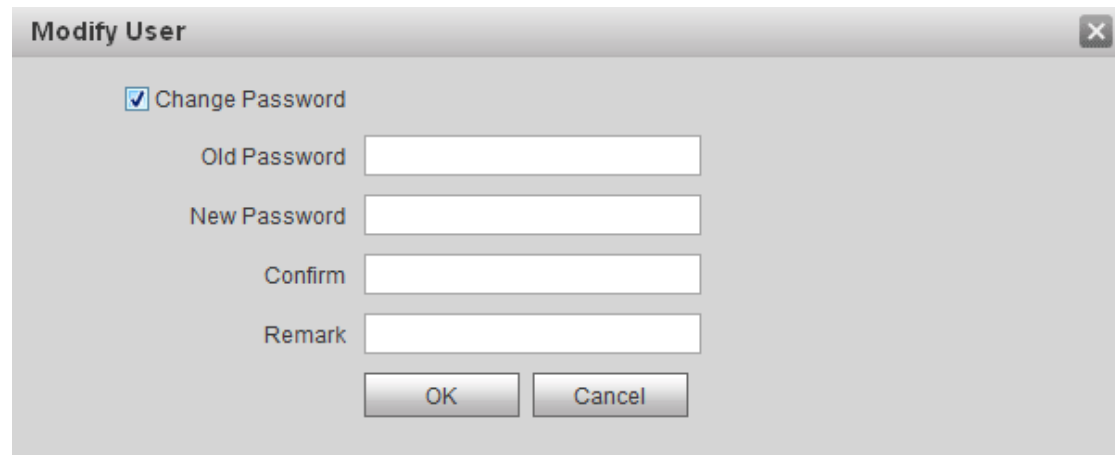
4.2.6.2 Delete User

In User Manage interface, click on  to delete user.

4.2.6.3 Modify User

Step 1. Select user you want to modify, click .

Step 2. Check “Change Password”, see Figure 4-27.



The 'Modify User' dialog box has a title bar with a close button. Inside, there is a checked checkbox labeled 'Change Password'. Below it are four text input fields: 'Old Password', 'New Password', 'Confirm', and 'Remark'. At the bottom are 'OK' and 'Cancel' buttons.

Figure 4-27

Step 3. Enter old password, new password and confirm new password.

Step 4. Click OK.

4.2.7 IPC Information

Note:

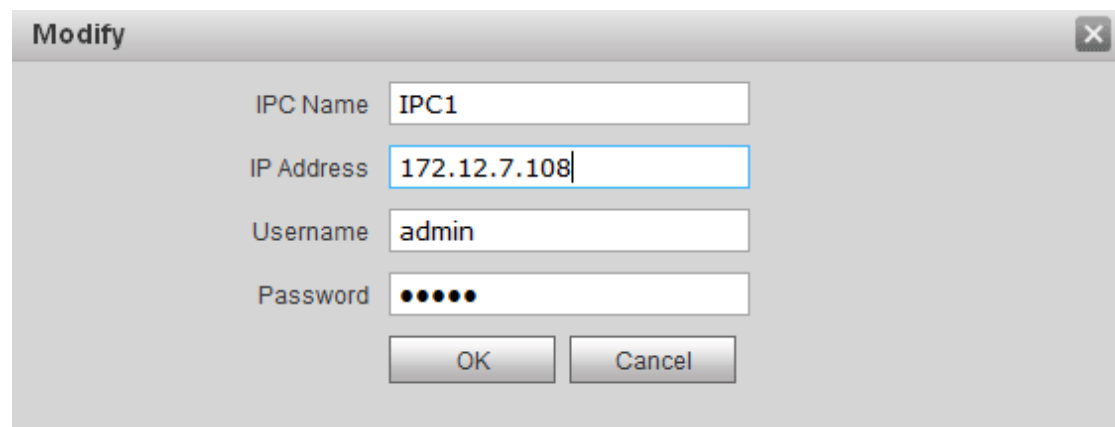
Visible when this device is as SIP server.

You can add up to 20 IPCs, and added cameras will be auto synced with VDP-H.

To add IPC:

Step 1. Select System Config>IPC Information>IPC Information.

Step 2. Click , system pops up a bo. See Figure 4-28.



The 'Modify' dialog box has a title bar with a close button. It contains four text input fields: 'IPC Name' with the value 'IPC1', 'IP Address' with the value '172.12.7.108', 'Username' with the value 'admin', and 'Password' with five dots. At the bottom are 'OK' and 'Cancel' buttons.

Figure 4-28

Step 3. Fill in IPC information, see chart below.

Parameter	Note
IPC Name	IPC name.
IP Address	IPC IP.
Username	Login IPC WEB interface username and password.
Password	

Step 4. Click OK.

4.2.8 Publish Information

In Publish Information page, you can send publish information and view historical information.

Note:

Visible when the device is as SIP server.

4.2.8.1 Send Info

In page, select System Config>Publish Information>Send Info. You can set validity published info, select device to send info or check “all devices” and etc. Click Send, see Figure 4-29.

System Config

- > Local Config
- > LAN Config
- > Device Manager
- > Network Config
- > Video Set
- > User Manager
- > IPC Information
- > **Publish Information**
- > UPnP Config
- > Upgrade Manager

Info Search

Status Statistics

Logout

Send Info History Info

Period of validity 2016 - 07 - 22 23 : 59 : 59

Send to All devices ☒

Title notice

Content test

Note: the connect to allow the maximum number of characters is 256.

Send Cancel

Figure 4-29

4.2.8.2 History Info

In page, select System Config>Publish Information>History Info.

You can view historical information, click on  to delete information. See Figure 4-30.

You also can go to System Config>Local Config>Talk Manager interface, to delete publish info.

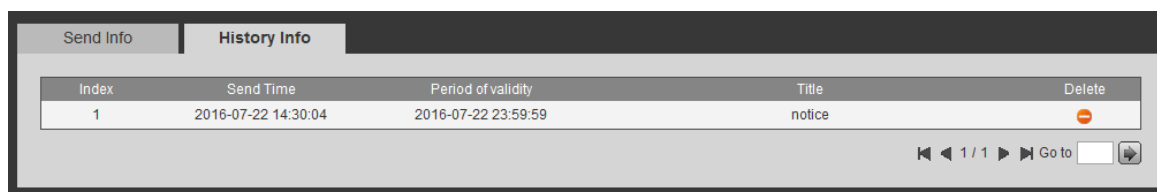


Figure 4-30

4.2.9 UPnP Setup

Note:

Visible when the device is set as SIP server.

Warning:

- Login router, set router WAN port IP address connection to WAN.
- Router enables UPnP function.
- Connect device to router LAN port, to private network.

Via UPnP protocol create mapping relationship between private network and outer network. Outer network user can visit device in LAN via outer IP address.

Step 1. Select System Config>UPnP Setup>General.

Step 2. Check “UPnP Enable” to enable UPnP function.

Step 3. Click Add. See Figure 4-31.

Figure 4-31

Step 4. Enable UPnP function, select enable, see chart below.

Parameter	Note
Server	Server name.

Parameter	Note
Name	
Protocol Type	Select protocol type, TCP or UDP.
Inport	Port to mapping.
Output	Port mapped on router.

Note:

- When you set router mapping outer port, try use port within 1024~5000, to avoid using well-known port 1~255 and system port 256~1023.
- When there are multiple devices in the same LAN, please plan for port mapping, to eliminate multiple device mapping to one external port.
- For port mapping in progress, please make sure mapping port is not occupied or limited.
- Internal/external ports must be identical, cannot be modified.

Step 5. Click OK, to complete UPnP setup.

In browser, enter <http://WAN IP: WAN port> to visit corresponding router port no. of private device.

4.2.10 Upgrade File

Warning:

- During upgrade, please do not cut off power or network, reboot or shut down device.
- Please select the correct upgrade file, since wrong upgrade program may cause device crash down.
- Please make sure SD card is inserted.

Upload, delete upgrade file, store upgrade file in SD card.

Step 1. Select Info Search>Upgrade File Manager> Upgrade File Manager, see Figure 4-32.

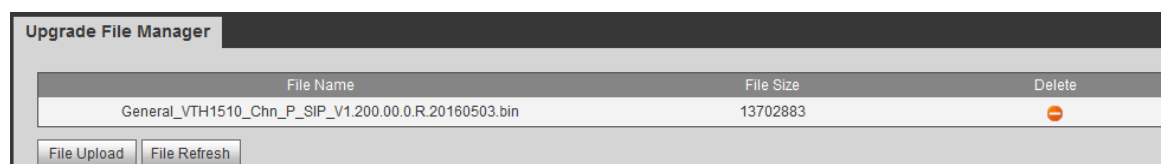


Figure 4-32

Step 2. Click Upgrade, select upgrade file (.bin).

After upgrading is complete, all VDP-Hs having communication with the VDP-H, can get upgrade file in version management page which can upgrade VDP-H.

Note:

If you want to upload more than one upgrade file, VDP-H only received the latest file sent.

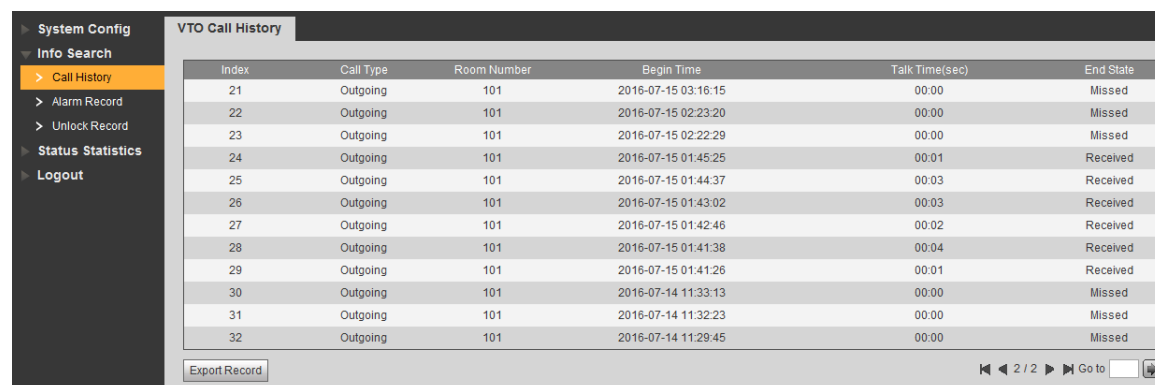
4.3 Info Search

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

4.3.1 Call Record

Store up to 1024 records.

Select Info Search>Call History>Call History. You can search VDP-G call records, including call type, room no., start time, call time and end status. See Figure 4-33.



The screenshot shows the 'VTO Call History' interface. On the left is a sidebar menu with options: System Config, Info Search (selected), Call History (selected), Alarm Record, Unlock Record, Status Statistics, and Logout. The main area displays a table of call records with the following columns: Index, Call Type, Room Number, Begin Time, Talk Time(sec), and End State. The table contains 12 rows of data, all with 'Outgoing' call type and 'Room Number' 101. The 'End State' alternates between 'Missed' and 'Received'. At the bottom left is an 'Export Record' button, and at the bottom right are navigation controls showing '2 / 2' and a 'Go to' field.

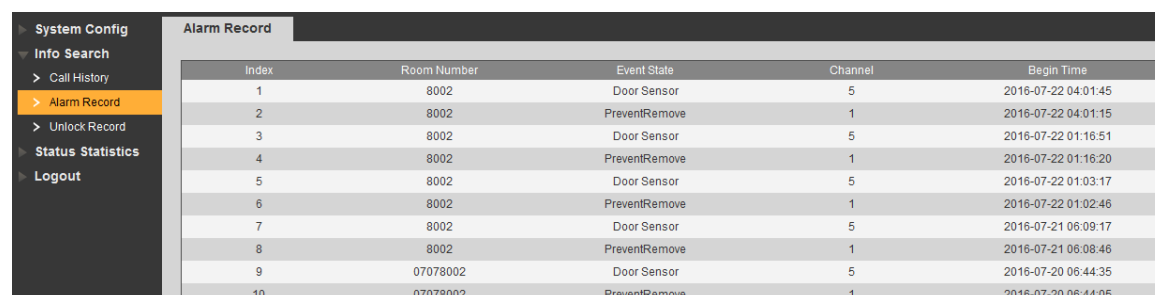
Index	Call Type	Room Number	Begin Time	Talk Time(sec)	End State
21	Outgoing	101	2016-07-15 03:16:15	00:00	Missed
22	Outgoing	101	2016-07-15 02:23:20	00:00	Missed
23	Outgoing	101	2016-07-15 02:22:29	00:00	Missed
24	Outgoing	101	2016-07-15 01:45:25	00:01	Received
25	Outgoing	101	2016-07-15 01:44:37	00:03	Received
26	Outgoing	101	2016-07-15 01:43:02	00:03	Received
27	Outgoing	101	2016-07-15 01:42:46	00:02	Received
28	Outgoing	101	2016-07-15 01:41:38	00:04	Received
29	Outgoing	101	2016-07-15 01:41:26	00:01	Received
30	Outgoing	101	2016-07-14 11:33:13	00:00	Missed
31	Outgoing	101	2016-07-14 11:32:23	00:00	Missed
32	Outgoing	101	2016-07-14 11:29:45	00:00	Missed

Figure 4-33

4.3.2 Alarm Record

Store up to 1024 records, including door sensor alarm, vandal-proof alarm and etc.

Select Info Search>Alarm Record>Alarm Record interface, you can search unit VDP-G alarm, including room no., alarm status and etc, see Figure 4-34.



The screenshot shows the 'Alarm Record' interface. On the left is a sidebar menu with options: System Config, Info Search (selected), Call History, Alarm Record (selected), Unlock Record, Status Statistics, and Logout. The main area displays a table of alarm records with the following columns: Index, Room Number, Event State, Channel, and Begin Time. The table contains 10 rows of data. The 'Event State' alternates between 'Door Sensor' and 'PreventRemove'. The 'Room Number' is either 8002 or 07078002. At the bottom left is an 'Export Record' button, and at the bottom right are navigation controls showing '2 / 2' and a 'Go to' field.

Index	Room Number	Event State	Channel	Begin Time
1	8002	Door Sensor	5	2016-07-22 04:01:45
2	8002	PreventRemove	1	2016-07-22 04:01:15
3	8002	Door Sensor	5	2016-07-22 01:16:51
4	8002	PreventRemove	1	2016-07-22 01:16:20
5	8002	Door Sensor	5	2016-07-22 01:03:17
6	8002	PreventRemove	1	2016-07-22 01:02:46
7	8002	Door Sensor	5	2016-07-21 06:09:17
8	8002	PreventRemove	1	2016-07-21 06:08:46
9	07078002	Door Sensor	5	2016-07-20 06:44:35
10	07078002	PreventRemove	1	2016-07-20 06:44:05

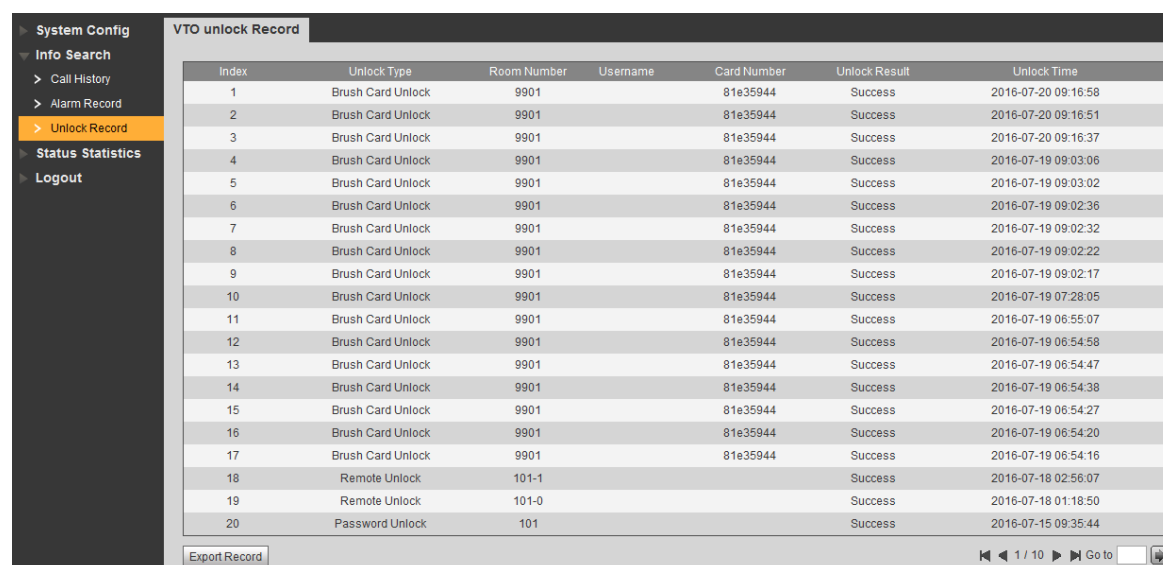
Figure 4-34

Click Export to export VDP-G alarm record.

4.3.3 Unlock Record

Unlock record stores up to 1000 records, including remote unlock, card unlock and button unlock.

In Info Search>Unlock Record>Unlock Record interface, you can search unit VDP-G unlock status, including unlock type, unlock time and etc. See Figure 4-35.



The screenshot shows the 'VTO unlock Record' interface. On the left is a sidebar with navigation options: System Config, Info Search (selected), Call History, Alarm Record, Unlock Record (highlighted), Status Statistics, and Logout. The main area displays a table of unlock records with the following columns: Index, Unlock Type, Room Number, Username, Card Number, Unlock Result, and Unlock Time. The table contains 20 rows of data. At the bottom of the table is an 'Export Record' button and a pagination control showing '1 / 10'.

Index	Unlock Type	Room Number	Username	Card Number	Unlock Result	Unlock Time
1	Brush Card Unlock	9901		81e35944	Success	2016-07-20 09:16:58
2	Brush Card Unlock	9901		81e35944	Success	2016-07-20 09:16:51
3	Brush Card Unlock	9901		81e35944	Success	2016-07-20 09:16:37
4	Brush Card Unlock	9901		81e35944	Success	2016-07-19 09:03:06
5	Brush Card Unlock	9901		81e35944	Success	2016-07-19 09:03:02
6	Brush Card Unlock	9901		81e35944	Success	2016-07-19 09:02:36
7	Brush Card Unlock	9901		81e35944	Success	2016-07-19 09:02:32
8	Brush Card Unlock	9901		81e35944	Success	2016-07-19 09:02:22
9	Brush Card Unlock	9901		81e35944	Success	2016-07-19 09:02:17
10	Brush Card Unlock	9901		81e35944	Success	2016-07-19 07:28:05
11	Brush Card Unlock	9901		81e35944	Success	2016-07-19 06:55:07
12	Brush Card Unlock	9901		81e35944	Success	2016-07-19 06:54:58
13	Brush Card Unlock	9901		81e35944	Success	2016-07-19 06:54:47
14	Brush Card Unlock	9901		81e35944	Success	2016-07-19 06:54:38
15	Brush Card Unlock	9901		81e35944	Success	2016-07-19 06:54:27
16	Brush Card Unlock	9901		81e35944	Success	2016-07-19 06:54:20
17	Brush Card Unlock	9901		81e35944	Success	2016-07-19 06:54:16
18	Remote Unlock	101-1			Success	2016-07-18 02:56:07
19	Remote Unlock	101-0			Success	2016-07-18 01:18:50
20	Password Unlock	101			Success	2016-07-15 09:35:44

Figure 4-35

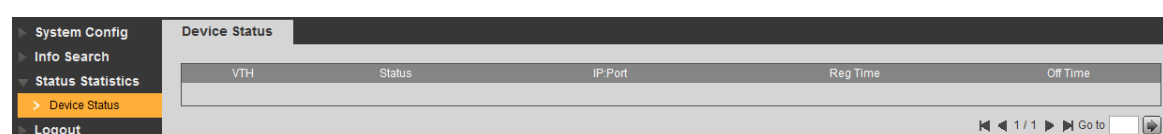
Click Export Record to export VDP-G unlock record.

4.4 Status Statistics

Warning:

If you have added one VDP-H, and it has never been online or has been offline over 3 minutes, then go to Status Statistics>Device Status>Device Status interface, you will not search out its status.

In Status Statistics>Device Status>Device Status interface, you can view VDP-H connection status, IP port and etc. See Figure 4-36.



The screenshot shows the 'Device Status' interface. On the left is a sidebar with navigation options: System Config, Info Search, Status Statistics (selected), Device Status (highlighted), and Logout. The main area displays a table with the following columns: VTH, Status, IP:Port, Reg Time, and Off Time. The table is currently empty. At the bottom of the table is a pagination control showing '1 / 1'.

VTH	Status	IP:Port	Reg Time	Off Time
-----	--------	---------	----------	----------

Figure 4-36

● Status

Offline: VDP-G and VDP-H are not connected, you cannot call, monitor, talk or etc.

Online: VDP-G and VDP-H are connected, you can call, monitor, talk and etc.

- MON




Unmon: VDP-H is not monitoring.

Onmom: VDP-H is monitoring.






5 Device Operation

5.1 Call





5.1.1 Call MGT Center

In standby status, press  or  button, this VDP-G 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.

5.1.2 Call VDP-H

In standby status, enter room no. or press  or  to select room no. in contacts, and press  or  to call VDP-H. The video door phone begins when the VDP-H picks up. During the whole process, you can press the button  or ***** to end current talk and return to the standby interface.

5.1.3 Group Call VDP-H

In standby status, enter room no. or press  or  to select room no. in contacts, and press  or  to call VDP-H. All VDP-Hs under this room will ring at the same time.

Note:

Group call can be set in System Config>Network Config> Network Config.

5.2 Unlock

5.2.1 VDP-H, MGT Center Remotely Unlock

When center is called, calling or monitoring, VDP-H or center can remotely unlock door. VDP-G will return to standby interface after call ends or countdown stops.

5.2.2 IC Card Unlock

Swipe authorized IC card on VDP-H, after verification is passed, door is unlocked.

Note:

Please refer to Ch 5.5 for card issuing.


5.2.3 Button Unlock

Press unlock button on VDP-H to unlock.

5.2.4 Password Unlock

You can unlock via personal password, uniform password and duress password.


- Personal password can be set in System Config>Device Manager>Indoor Manager.

Select VDP-H, click  to modify VDP-H unlock password.

- Uniform password can be set in System Config>Local Config>A&C Manager.



5.2.4.1 Personal Password Unlock

In standby status, press  or # , enter 5-digit room no. (fill in 0 for blank



digits)+personal unlock passwrd, and press  or # to unlock.

For example, personal password is “123456”, then enter “01101123456”.

5.2.4.2 Uniform Password

In standby status, press  or #, enter uniform password (default is :123456”), and press  or # to unlock.
i.e.: #123456#.

5.2.4.3 Duress Password Unlock




When a user encounter duress, press  or #, to enter duress password (“654321” by default), and press  or # to unlock.
If XX user unlock: #654321#, now the system sends alarm to MGT center.

5.3 Monitor



Both MGT center and VDP-H can monitor VDP-G.

5.4 Modify Local Config

5.4.1 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.

5.4.2 Modify IP

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.


After modification is complete, VDP-G will reboot.


5.4.3 Modify Volume Config

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

5.5 Issue Card



You can issue card via main card and password.

In Project Settings>Card Issuing interface, select to issue card with main card or password via button 2 and 8. Press  or * to enter sub-interface.

- Issue with main card: Under issuing card with main 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.

Note:

Before issuing card, please make sure the IC card is set as main card, please refer to Ch 4.2.3.3.

- 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.

Note:

Please refer to Ch 4.2.1.2 for password setup.

5.6 Web Port View

Go to Project Settings>WEB Port to view WEB port no., default is 80.

In browser enter <http://WAN IP: WAN port> to visit VDP WEB interface.

5.7 Project Password Change

Go to Project Settings>Change Password interface, enter “new password” and “confirm new password”, to change password.

5.8 Room No. Manager

Go to Project Settings>Add Room No. interface, enter room no. in 1-5 digits, to add room no. You can search out added room no. in contact.

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.**
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