Fast operation of IP Villa System

2017.8

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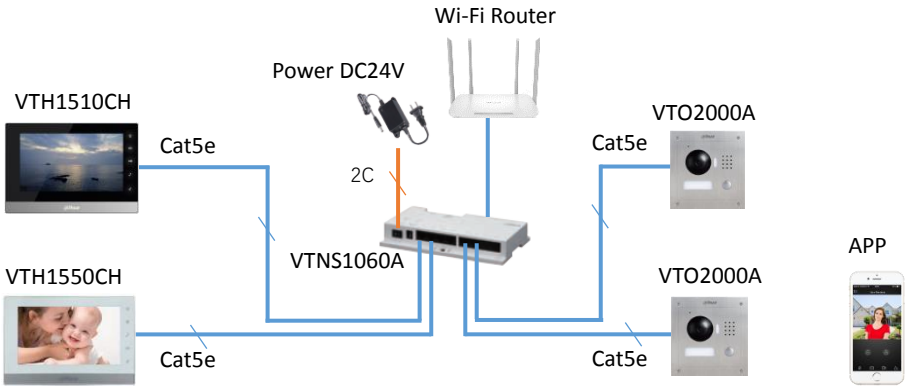
1 System introduction

This document listed the involved firmware and software, and explained the configuration of IP villa solution, including the VTO, VTH, IP Camera, Wi-Fi Router and mobile App.

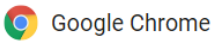
1.1 Structure



Note: VTH1510CH, VTH1550CH and VTO2000A can be powered by VTNS1060A. Moreover, these devices can be powered individually with 12V/1A if you use other IP switch.

1.2 Demo environment

1.3 Firmware and software

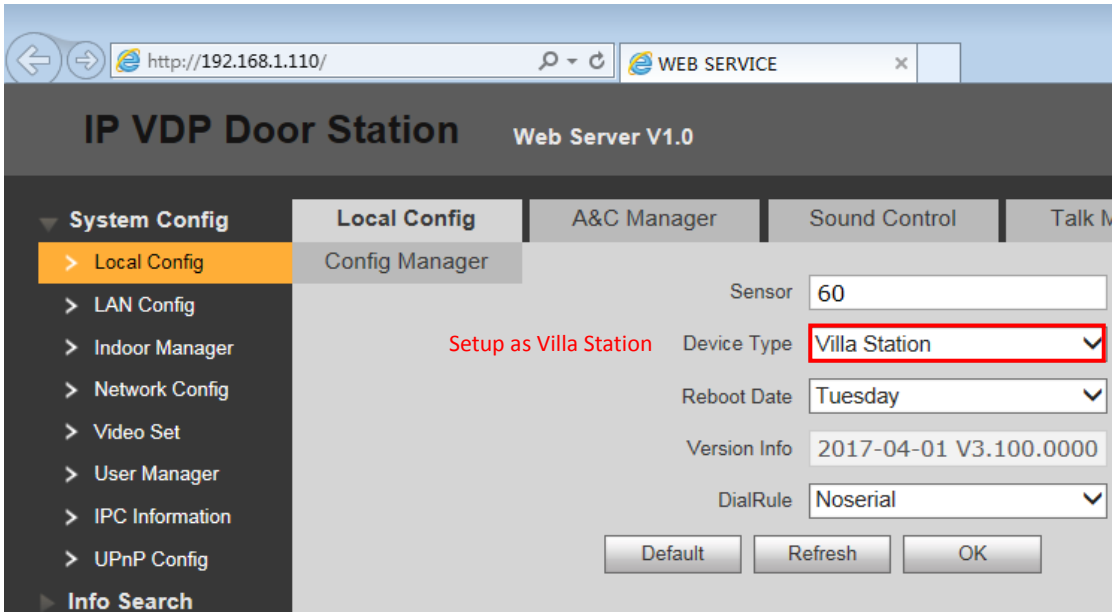
VTO2000A	**General_VTOXXX_Eng_P_16M_V3.120.0000.0.R.20170803** Device1 IP: 192.168.1.110 Building No: 1 Unit No: 1 VTO NO: 6901	VT cybersecurity baseline
VTO2000A	**General_VTOXXX_Eng_P_16M_V3.120.0000.0.R.20170803** Device IP: 192.168.1.111 Building No: 1 Unit No: 1 VTO NO: 6902	VT cybersecurity baseline
VTH1550CH	**General_VTH151X_Eng_P_V4.000.0000.0.R.20170803** Device IP: 192.168.1.108 Room NO: 101	VT cybersecurity baseline V4.0 indicates NEW UI
VTO1510CH	**General_VTH151X_Eng_P_V4.000.0000.0.R.20170803** Device IP: 192.168.1.109 Room No: 101-1	VT cybersecurity baseline
NVR5216-16P	**DH_NVR5XXX-4K_Eng_V3.215.0000000.1.R.20170901** Device IP: 192.168.1.106	cybersecurity baseline
IPC-HDW1220SN	**Software Version: 2.420.0000.14.R, build : 2016-04-18** IP: 192.168.1.107	
DMSS	iOS Version 3.49.001 iDMSS Lite	
IE 11	Version :11.0.9600.18762	
Chrome	 Version: 60.0.3122.113(64 bit)	
Windows 7	Windows 7 Enterprise edition	

2 How to configure: 1 VTO + 1 VTH

Note: When you want to connect the devices, please make sure the IP address of VTO and VTH are in the same network segment.

2.1 How to setup the VTO

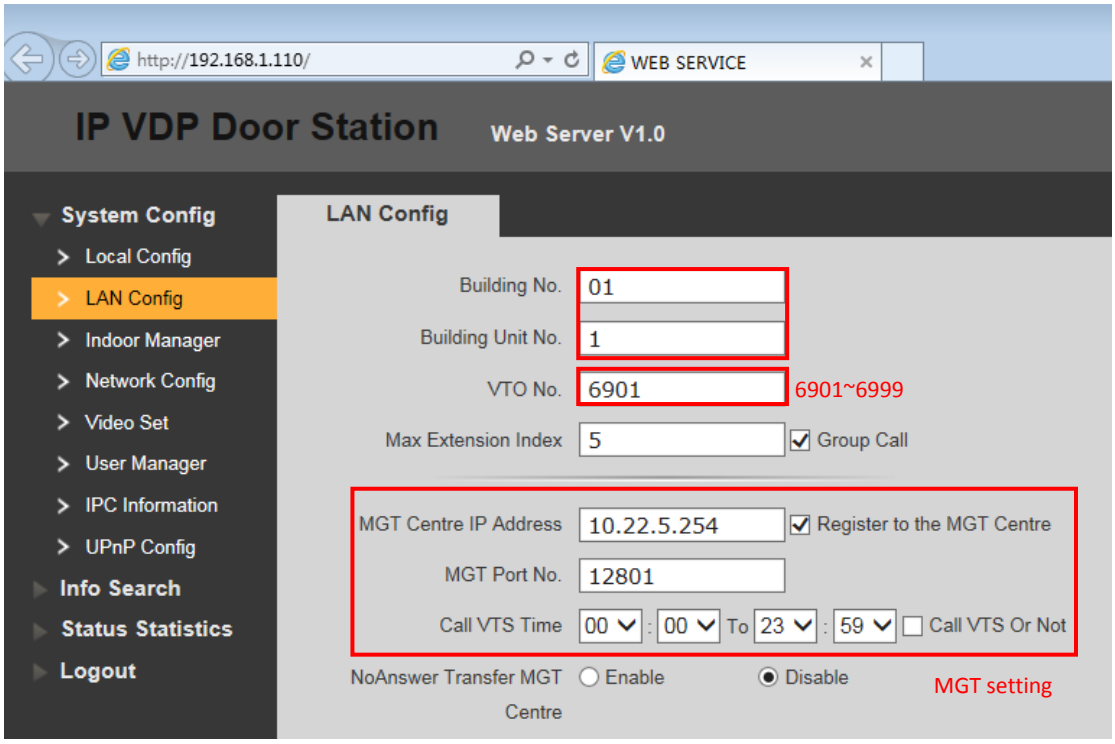
Step 1 Login http://192.168.1.110 as below pic. The default username and password are both 'admin'. The first login requires changing password. System Config -> Local Config, setup the device type as 'villa station'.



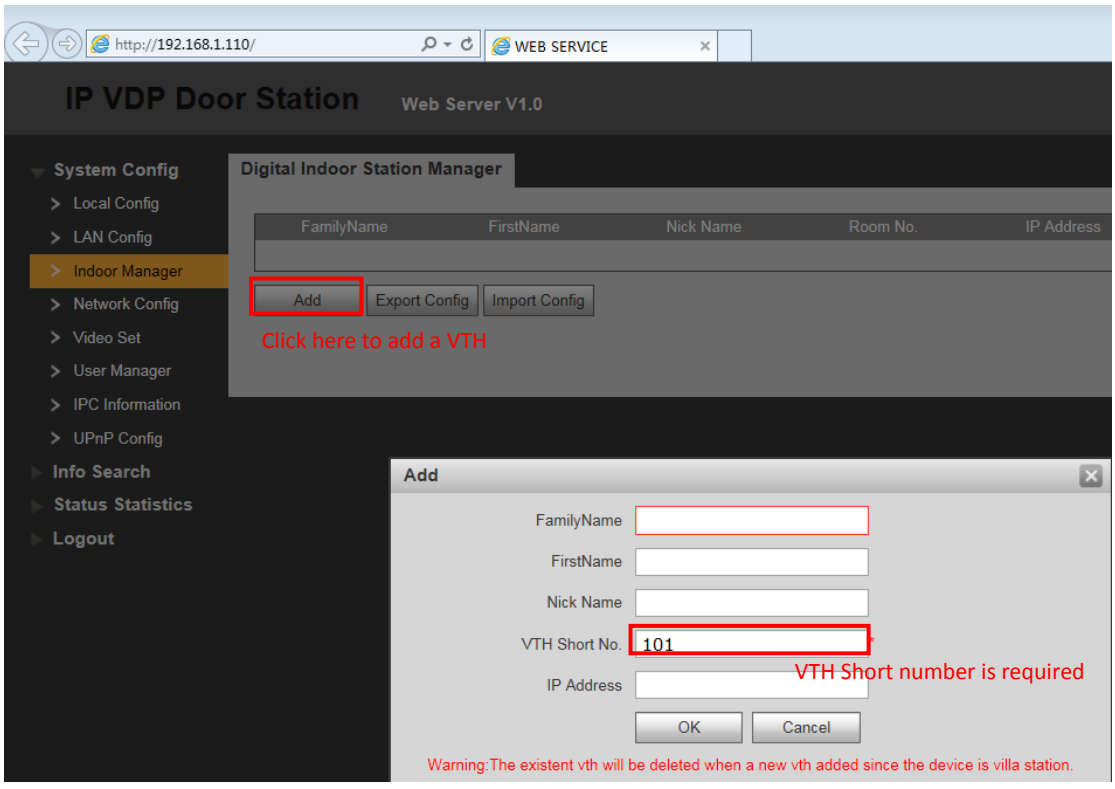
Step 2 System Config -> Local Config, setup the Building number, Building Unit number and VTO number.

Note: the setting range of VTO number is 6901~6999, and the number format is 69XX.

Step 3 The MGT setting is usually for apartment system, if there is a management center in the villa system, you can configure the MGT; if not necessary, just keep default. For detailed configuration instructions, see section 9(How to configure: SmartPSS).



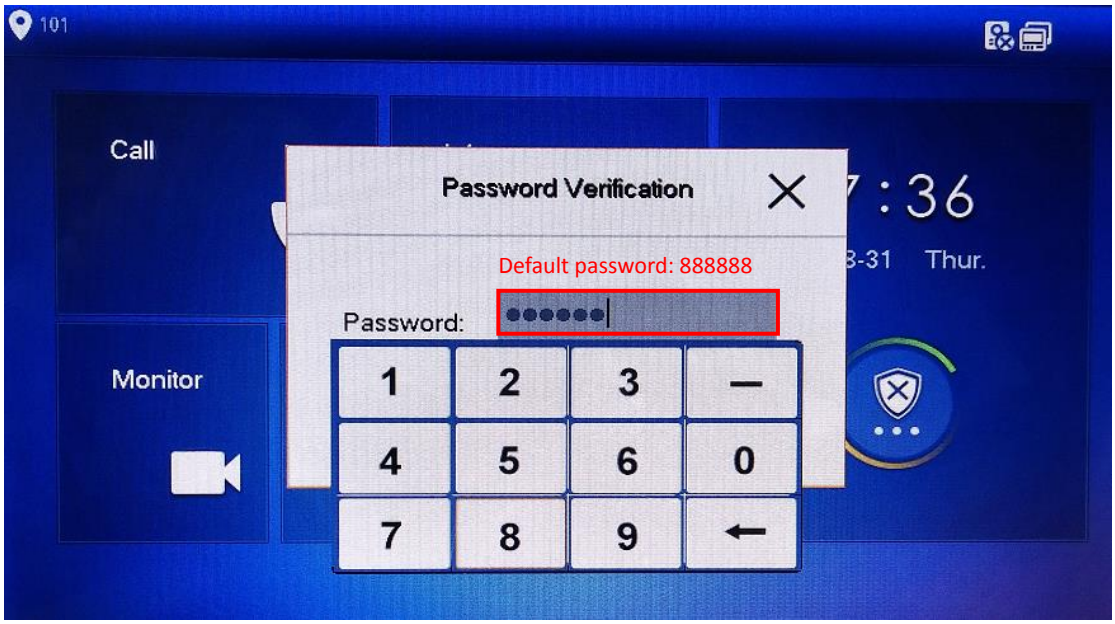
Step 4 System Config **->** Indoor Manager, click on 'Add'. You need to input room number of VTH, such as 101. Other information is not required.



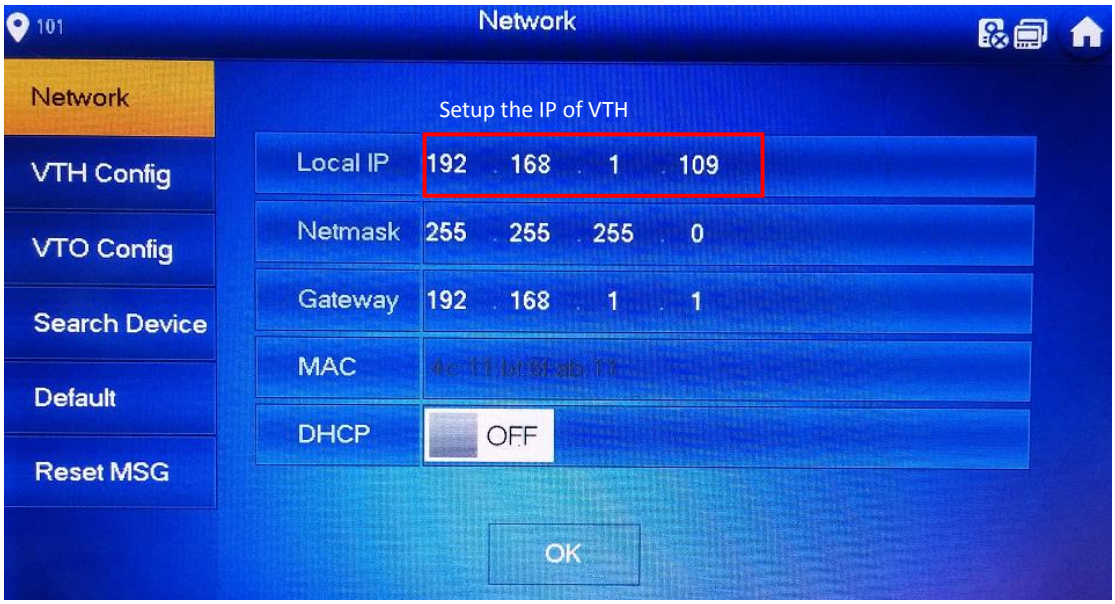
Step 5 Reboot the device.

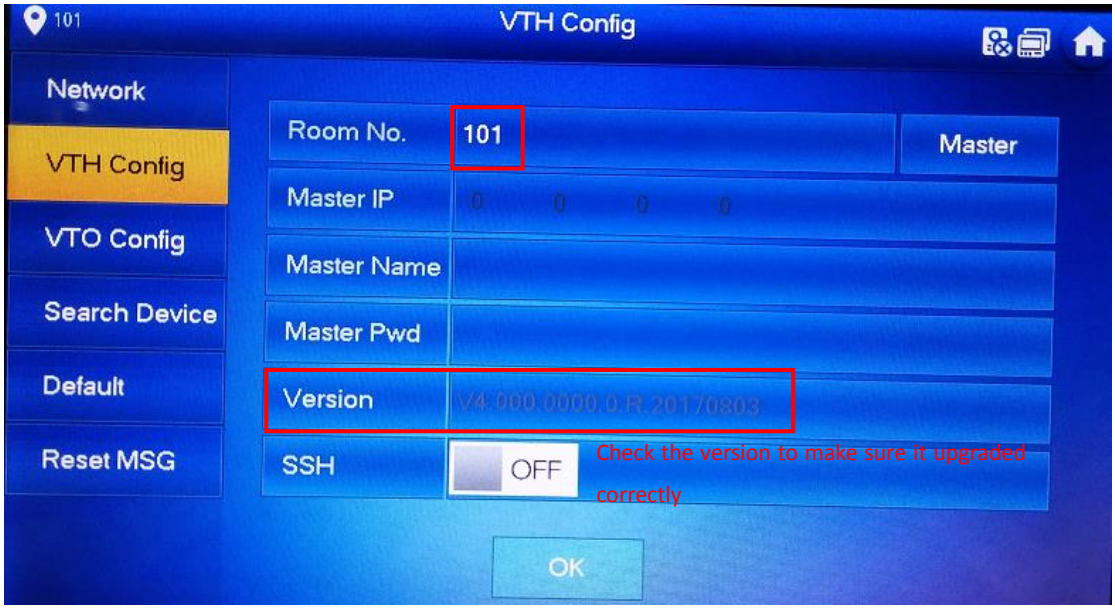
2.2 How to setup the VTH

Step 1 long press the 'setting' icon (for about 6 seconds) -> password verification (default password is 888888). Then enter to project setting.

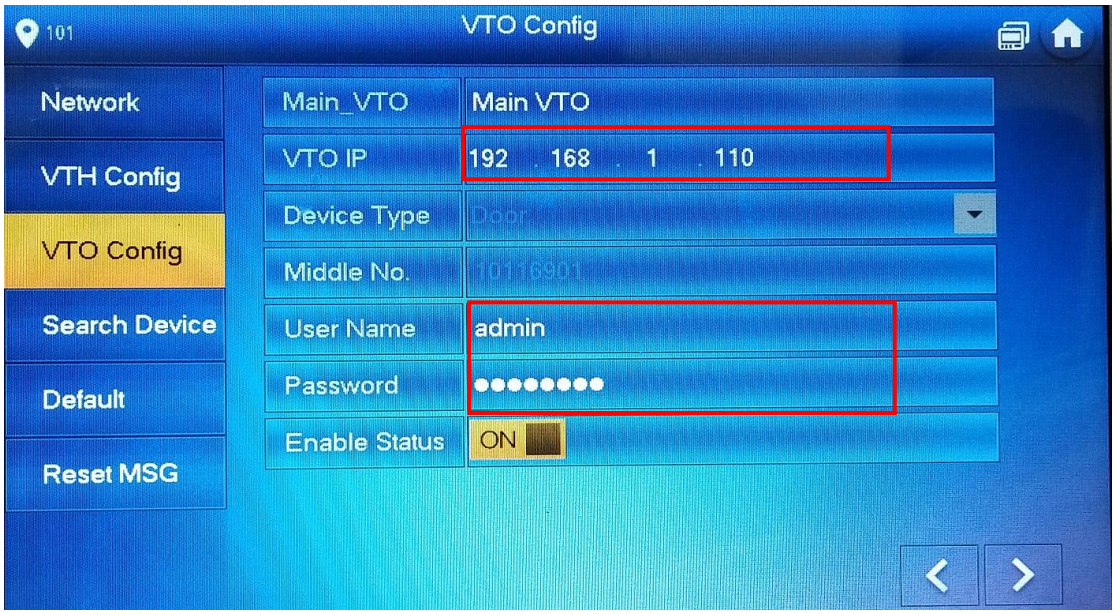


Step 2 Check 'Network', setup the IP of VTH. Check 'VTH Config', set Room number of VTH, it should be the same with the VTH Short number in VTO web setting.



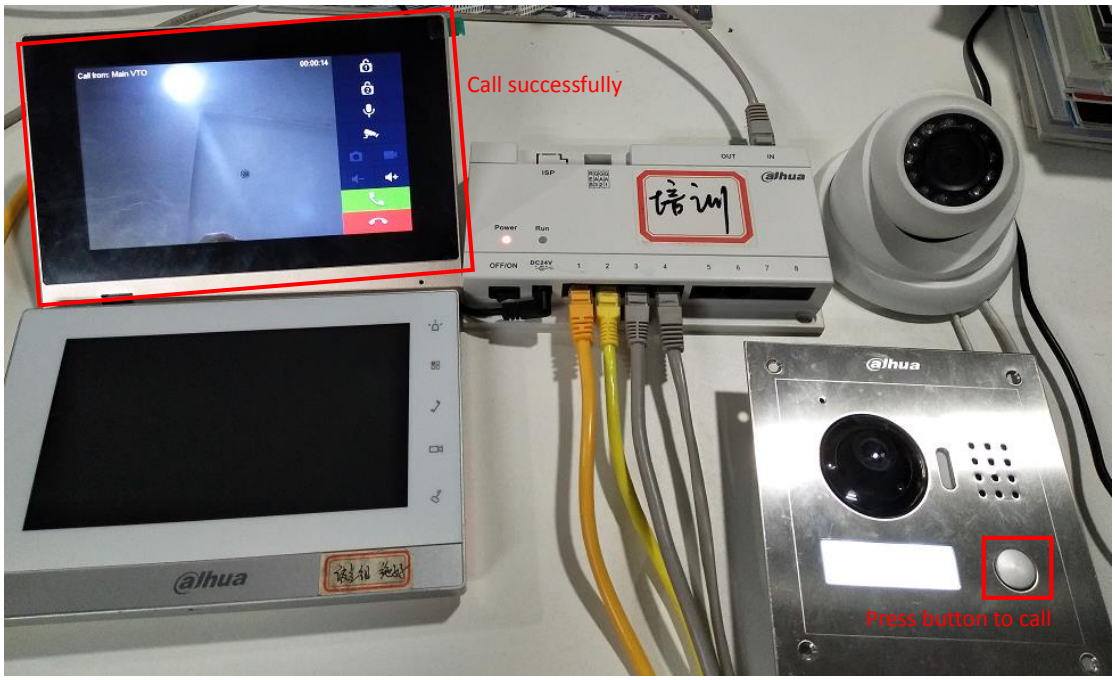


Step 3 Add VTO2000A in 'VTO Config', setup the IP address, username and password of VTO, and enable it. The username and password are the VTO web interface login 'Username' and 'Password'.



2.3 Check result

After the above operation steps, if the top right corner of VTH shows an icon with 'X' , means configuration failed. If shows , it means successfully.

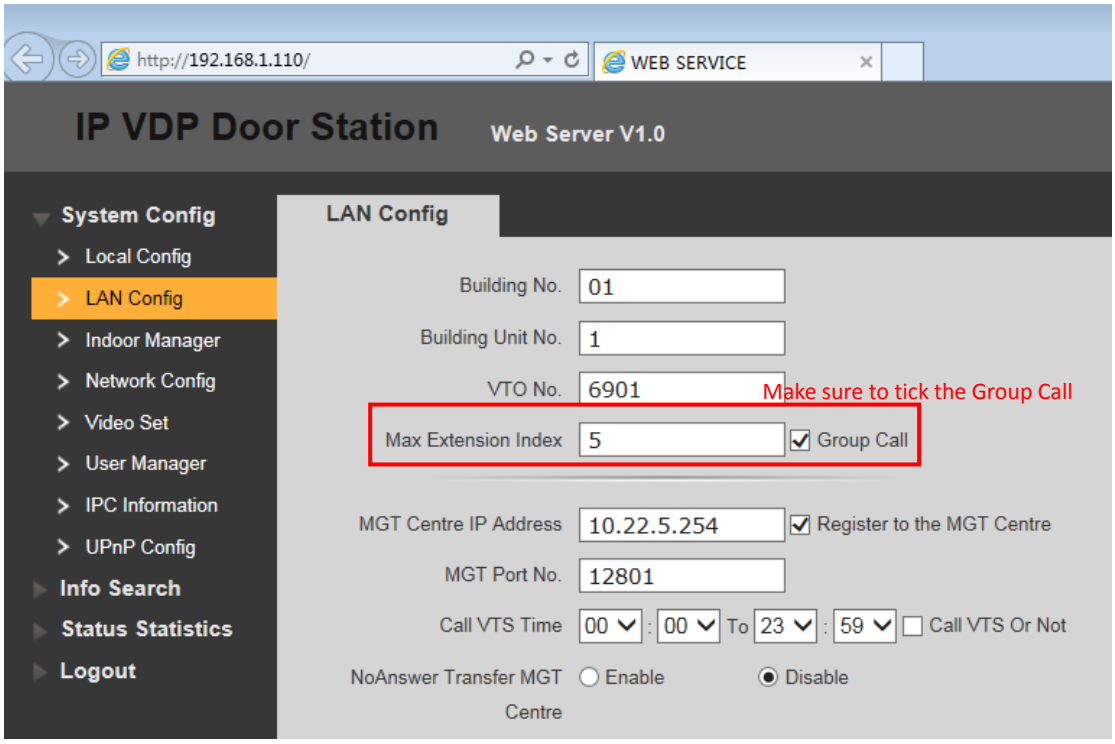


3 How to configure: 1 VTO + m VTH

If there are more than 2 VTHs, you can set group call function of VDP. Maximum support for 5 VTH.

3.1 How to setup the VTO

Step1 Login VTO2000A web interface http://192.168.1.110 , System Config -> LAN Cofig, make sure to tick the 'Group Call', and click OK to save.



Step2 System Config **->** Indoor Manager, click on 'Add'. You need to input room number of VTH in the 'VTH Short No', such as 101. Refer to Chapter 2.1 step 3.

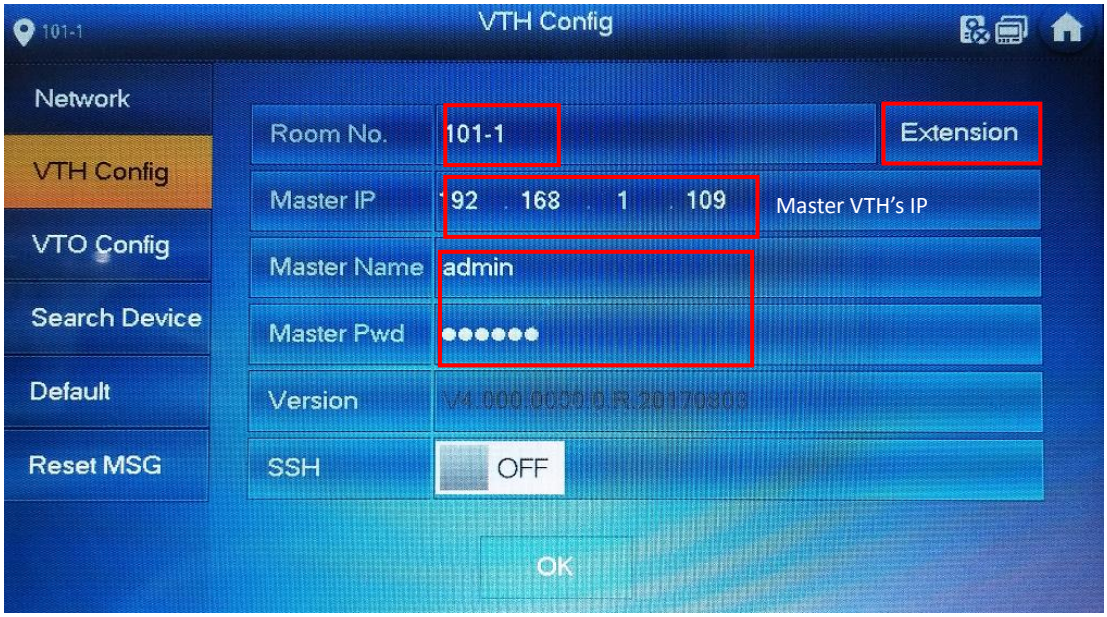
Step 3 Reboot the device.

3.2 How to setup the master VTH and extension VTH

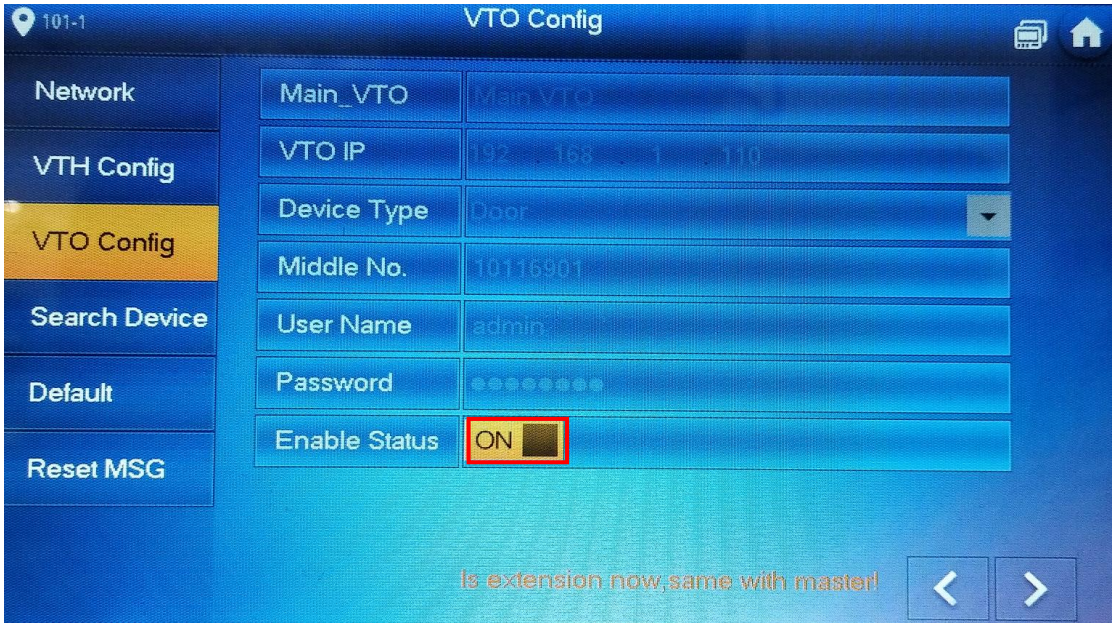
Note: maximum support 5 VTH (1 main VTH and 4 extension VTH). The master VTH's room number is set as 101, and extension VTH's room number should set as 101-1,101-2,101-3,101-4.

Step 1 Master VTH add VTO. Set room number as 101. Add VTO2000A in 'VTO Config' and enable it.

Step 2 Extension VTH add VTO. Setup extension VTH's room number in 'VTH Config', press 'Master' and switch to 'Extension'. Set the room number as 101-1, and input the master VTH's IP, master name: admin, master pwd: 888888.



Step 3 After setting up, the VTO information of master VTH has been synchronized to extension VTH, and then enable it.



3.3 Check result

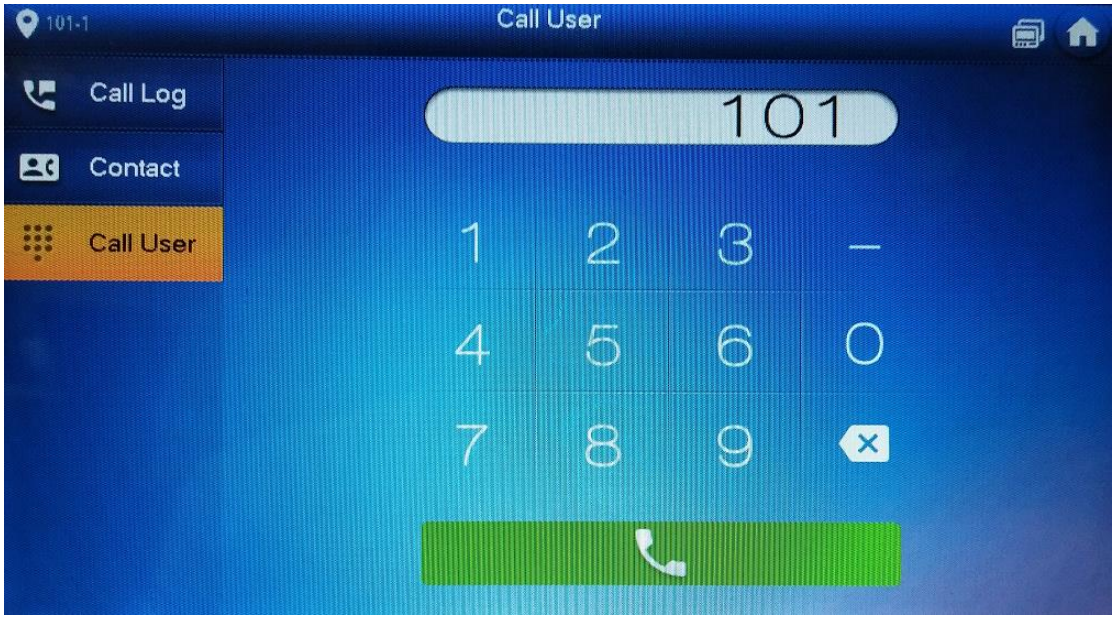
After the above operation steps, if the top right corner of VTH shows an icon with 'X' , means configuration failed. If shows , it means successfully.

➢ **Master VTH calls extension VTH**

Call **->** Call User, input '-1', and press the call button.

- **Extension VTH calls master VTH**

  Call **->** Call User, input room number ’101’, and press the call button.



4 How to configure: n VTO + m VTH

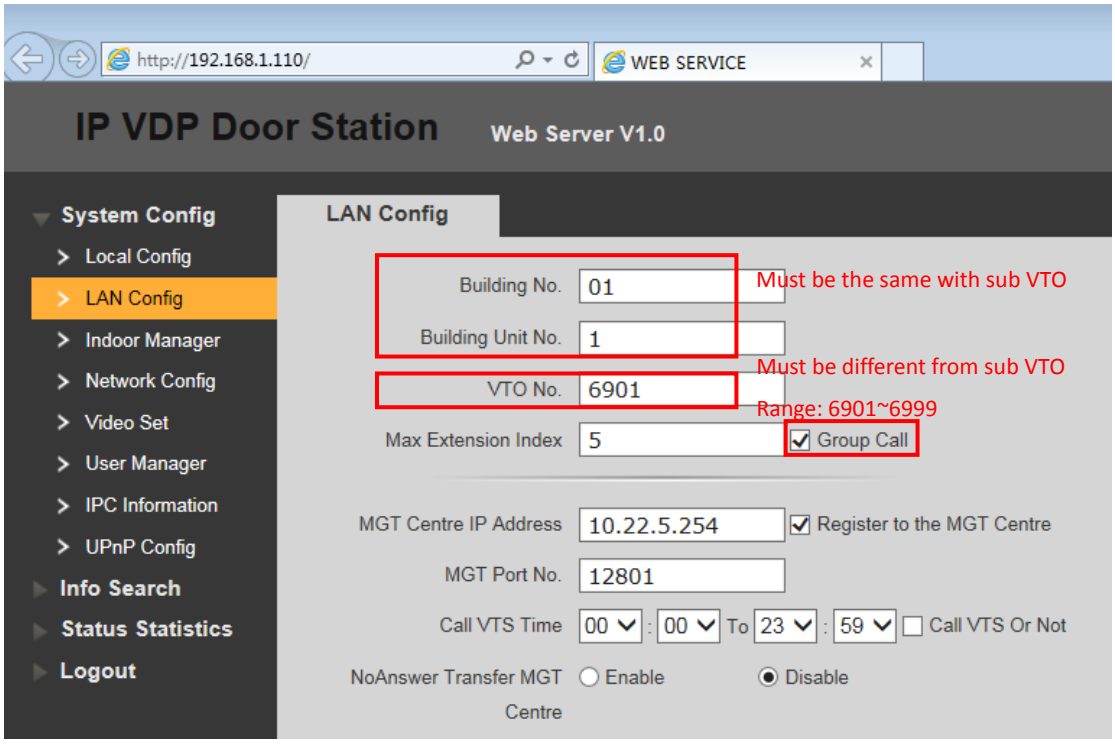
In IP villa system, it maximum supports 20 VTO and 5 VTH.

4.1 How to setup the main VTO

Step 1 Login http://192.168.1.110 , System Config **->** LAN Config, setup main VTH's Building number, Building Unit number and VTO number. Make sure to tick the 'Group Call' box, and click OK to save.

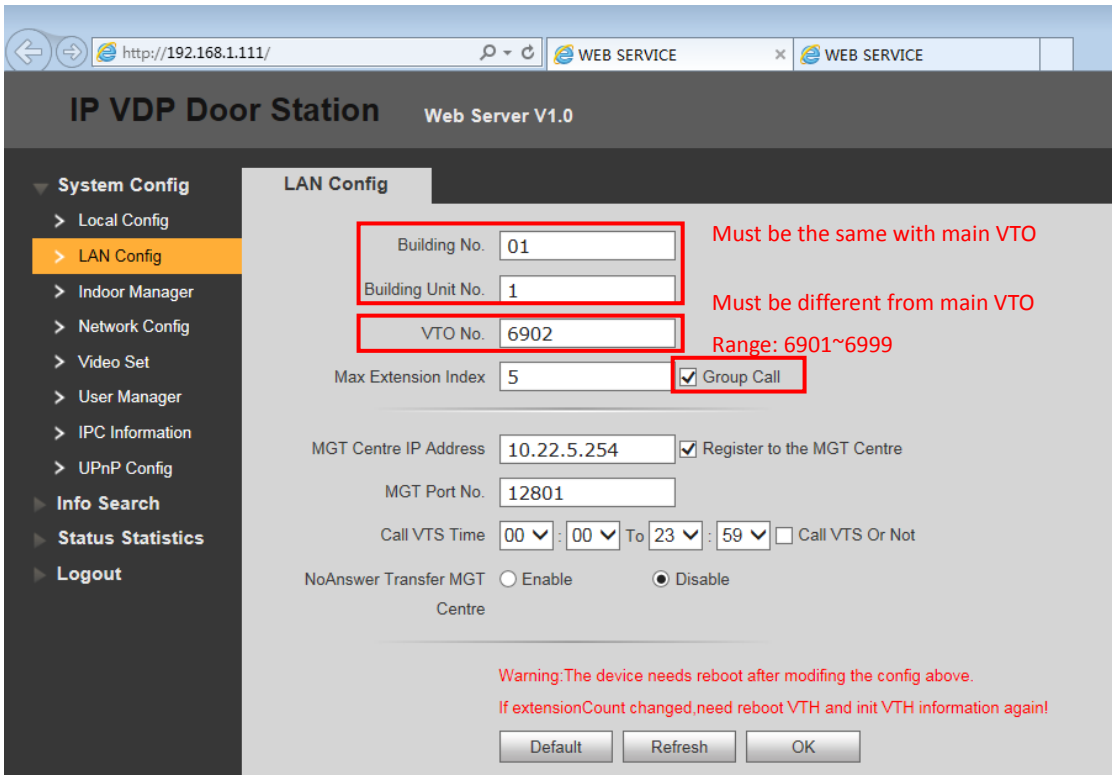
Step 2 System Config **->** Indoor Manager, click on 'Add'. You need to input room number of VTH in the 'VTH Short No' box, such as 101.

Step 3 Reboot the device.



4.2 How to setup the Sub VTO

Step 1 Login http://192.168.1.111 , System Config -> LAN Config, setup main VTH's Building number, Building Unit number and VTO number. Make sure to tick the 'Group Call' box, and click OK to save.



Note: Building number and unit number of main and sub VTO must be the same; VTO number must be different. VTO number format is '69XX', range 6901~6999.

Step 2 System Config -> Indoor Manager, click on 'Add'. You need to input room number of

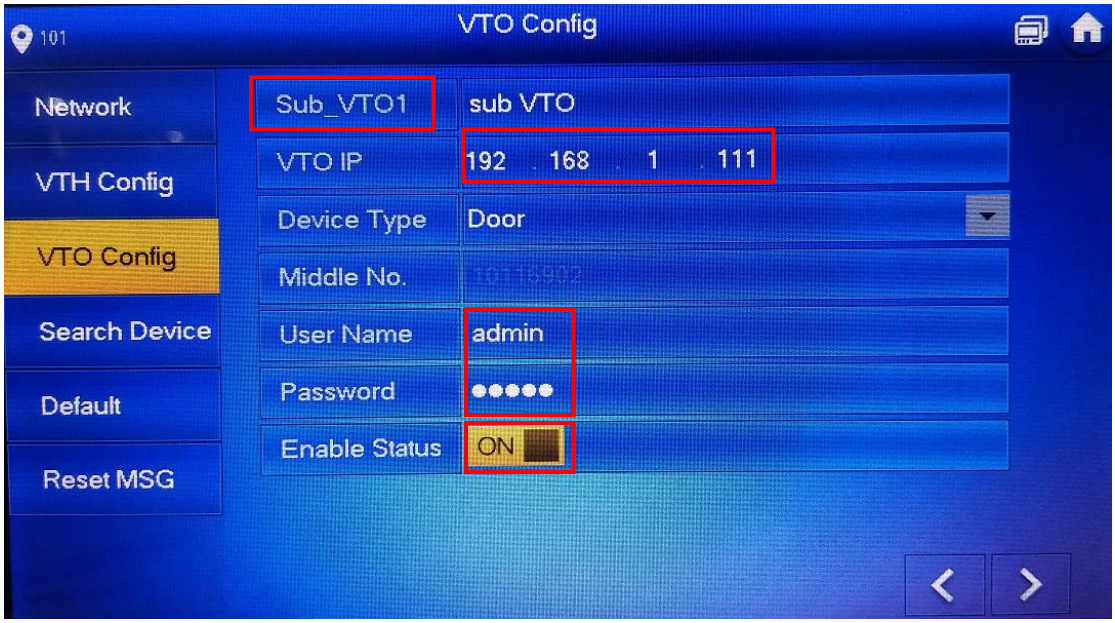
VTH in the 'VTH Short No' box, such as 101.

Step 3 Reboot the device.

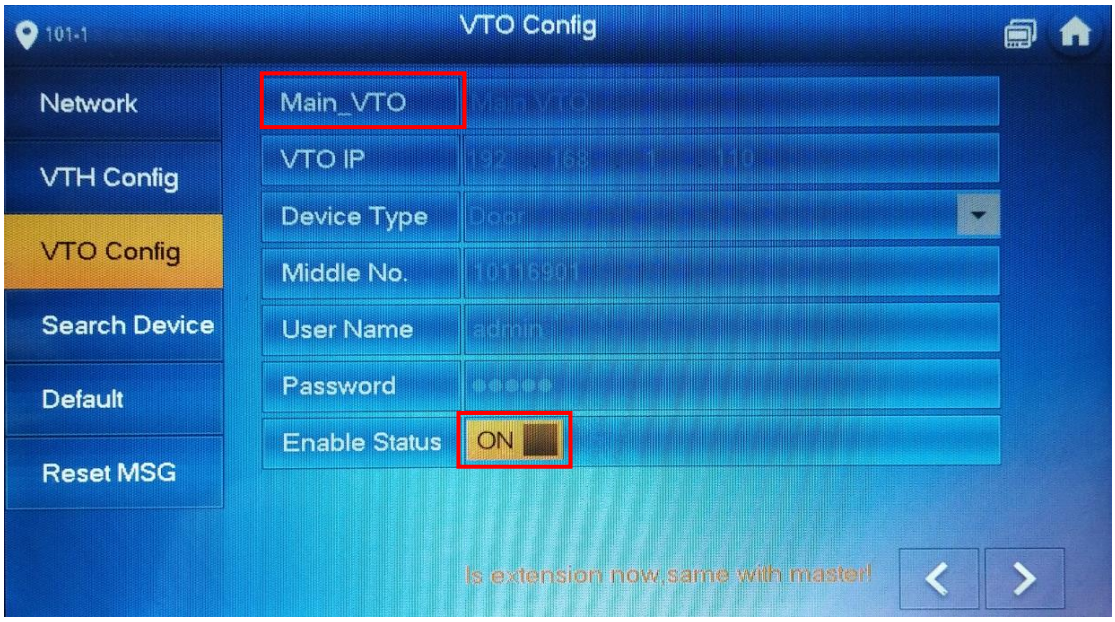
4.3 How to setup the master VTH and extension VTH

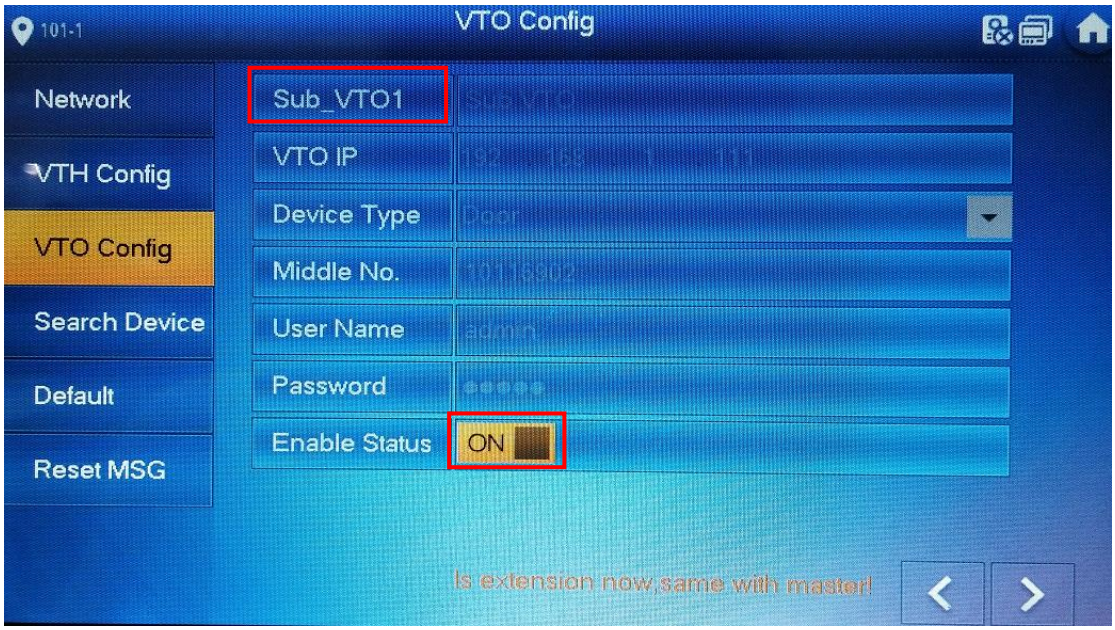
Step 1 Master VTH add main VTO. Set room number as 101. Add VTO2000A in 'VTO Config' and enable it.

Step 2 Master VTH add sub VTO. Press the icon to switch to sub VTO configuration. Add sub VTO as the same and enable it.



Step 3 Extension VTH add VTO. Setup the VTH as extension VTH and the configuration will synchronize automatically from master VTH. You need to enable it.





4.4 Check result

Call from main VTO:

Call from sub VTO:

5 How to add IPC

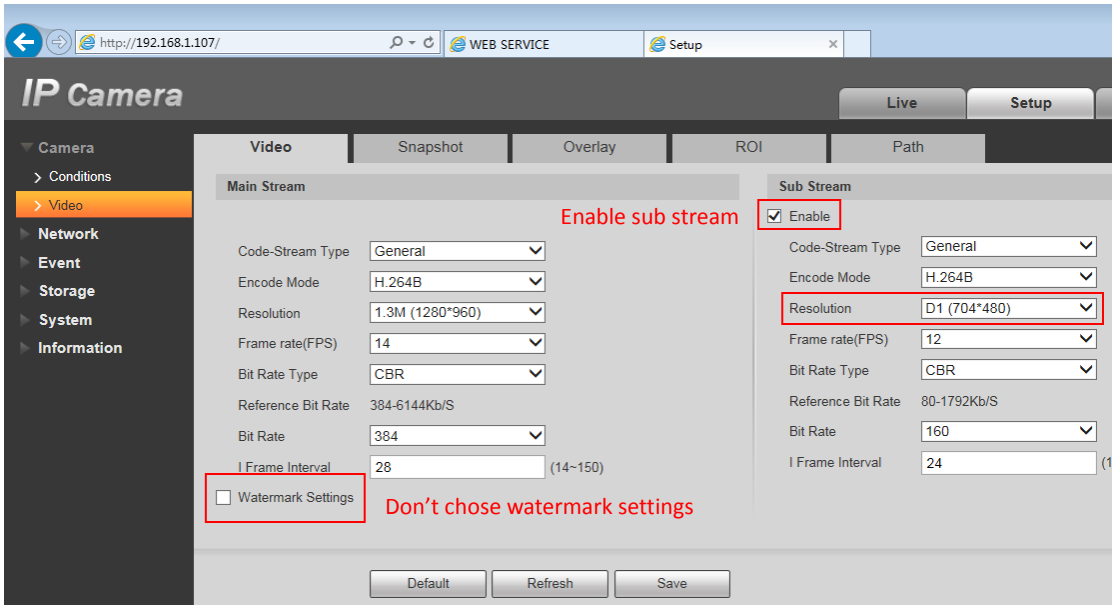
There are two different ways to add IPC: add IPC at VTO web interface (24ch) or add IPC at VTH (8ch). If you add IPC at VTO web interface, all the VTHs added on the VTO can monitor the IPC. If you add IPC at one VTH, only this VTH can monitor the IPC.

5.1 How to add public IPC

Step 1 Login IPC web interface http://192.168.1.107 , Setup -> Camera -> Video.

Note: For cybersecurity baseline, VTH monitor support both main stream and sub stream of IPC (Resolution below 720P, H.265 is not supported). Sub stream is recommended.

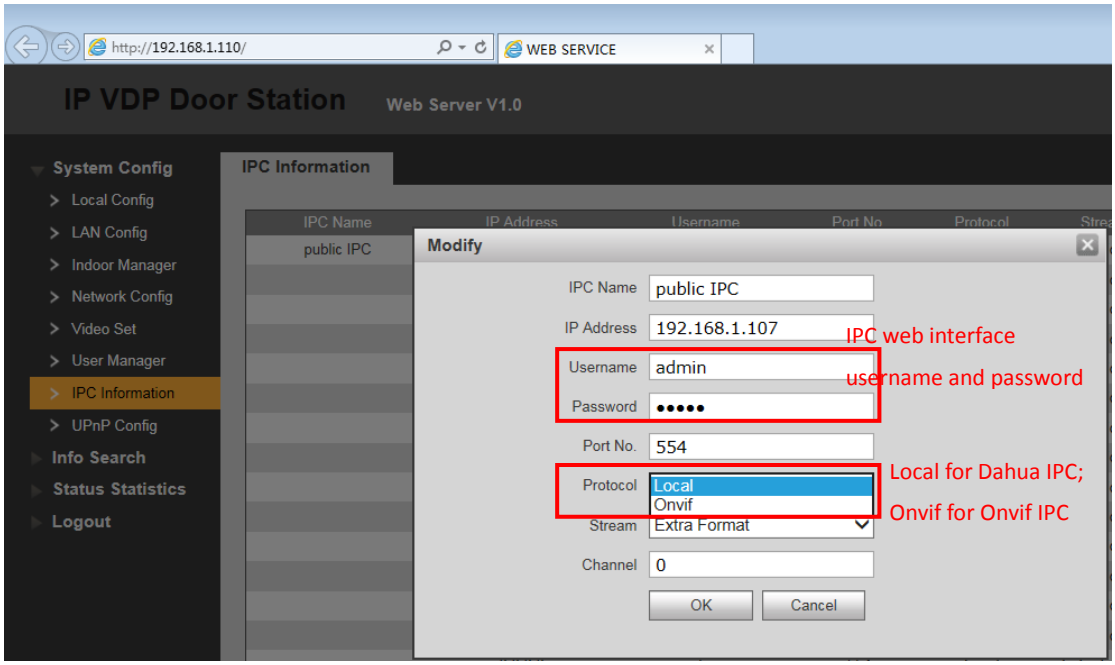
Don't select watermark settings.



Step 2 Login in VTO web interface http://192.168.1.110 , System Config -> IPC Information, click 'Modify' icon to add IPC.

Step 3 Setup IPC name, IP, Username and Password.

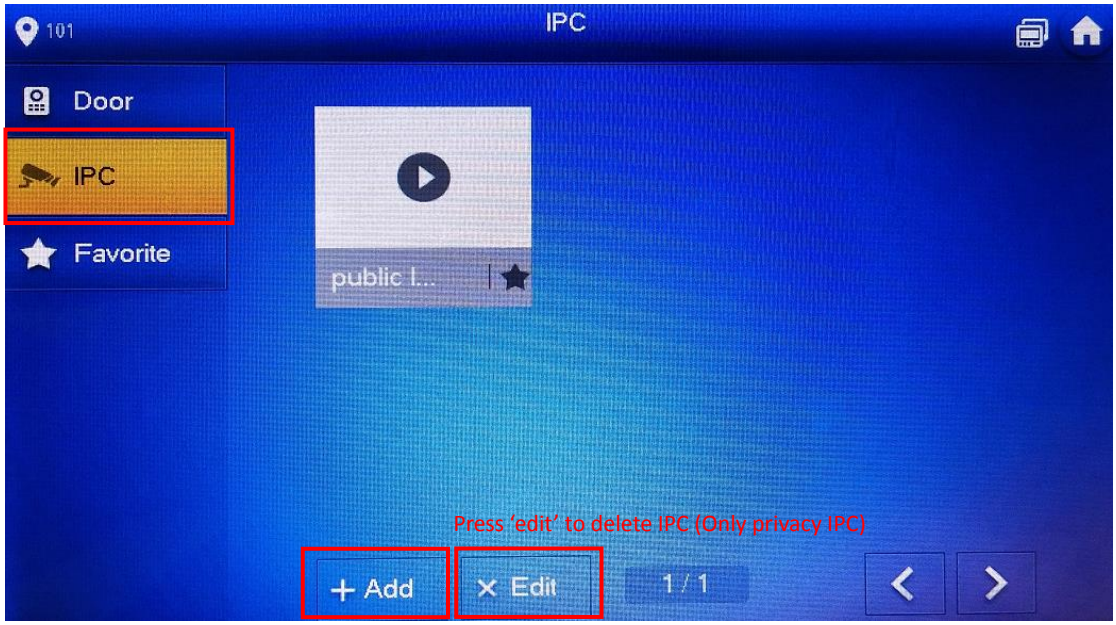
Step 4 Select the protocol: Local for Dahua IPC and Onvif for Onvif IPC. Other information keep default.



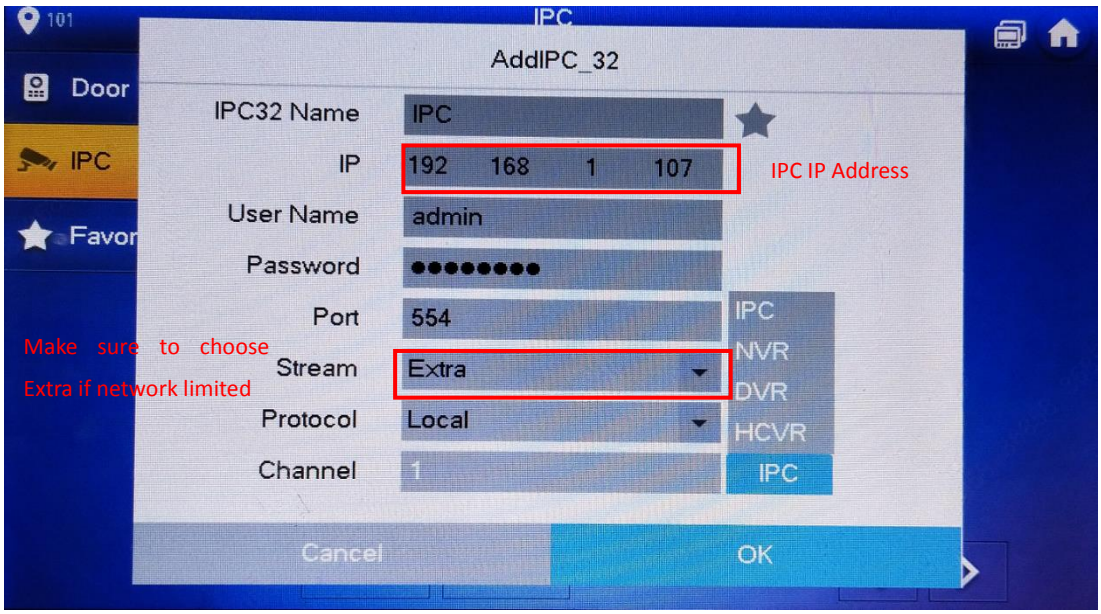
5.2 How to add privacy IPC

You can add IPC directly, and you can add IPC on one certain channel of NVR/ DVR/HCVR as well.

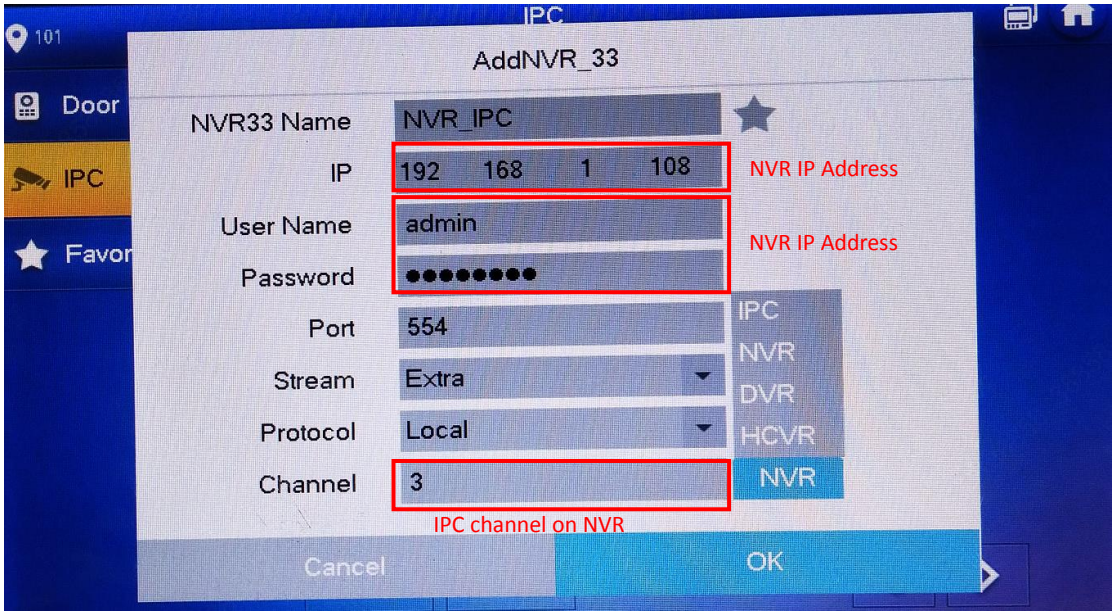
Step 1 Press 'Monitor' icon, select 'IPC'.



Step 2 Press '+Add' to add new privacy IPC. If the network bandwidth is limited, you had better choose 'Extra'.



Add IPC which is connected on NVR:

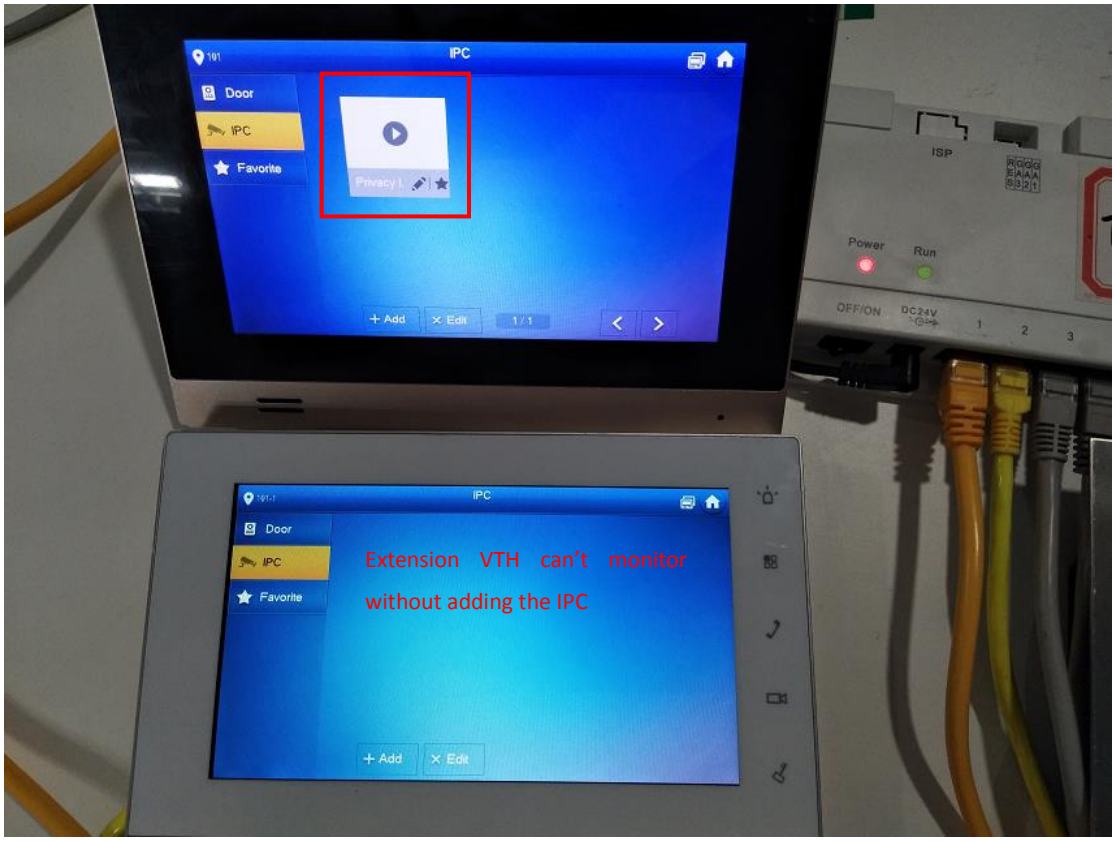


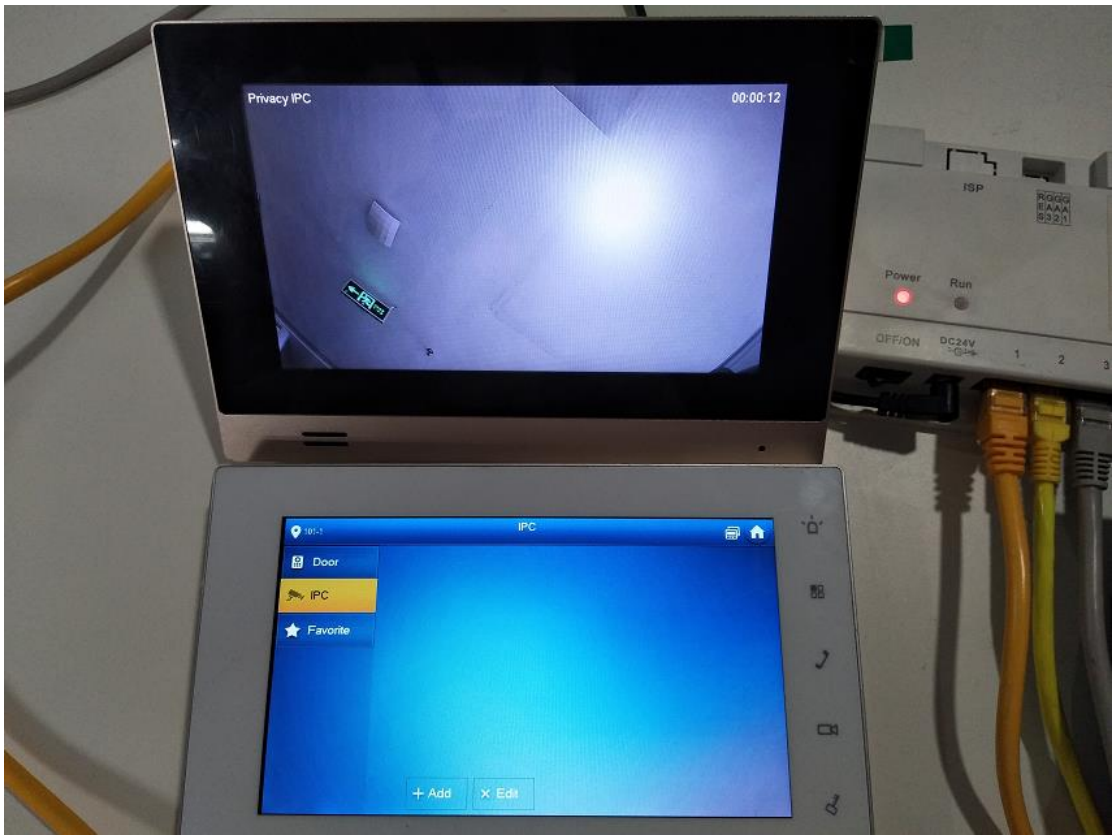
5.3 Check result

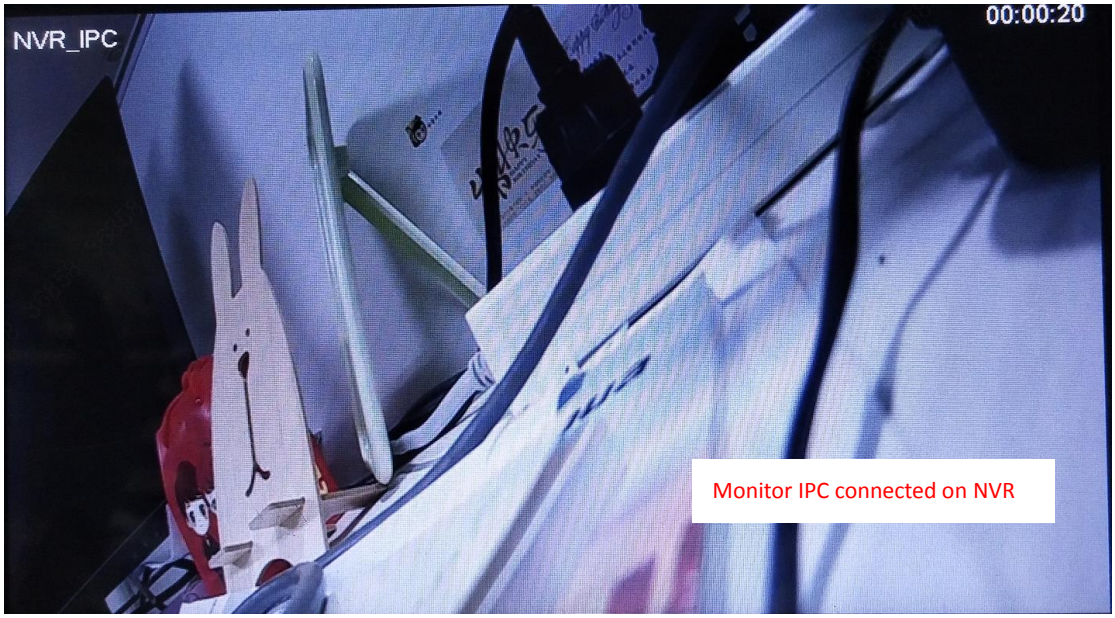
Press 'Monitor' icon, select 'IPC', then you can see all added IPC including public IPC and privacy IPC.

You can monitor the public IPC at master and extension VTH.

You can monitor the privacy IPC only at the VTH who added it.


IPC
Door
IPC
Favorite
+ Add
× Edit
1 / 1
ISP
Power
Run
OFF/ON
DC24V
Extension VTH can't monitor
without adding the IPC


Privacy IPC
00:00:12
IPC
Door
IPC
Favorite
+ Add
× Edit
ISP
Power
Run
OFF/ON
DC24V



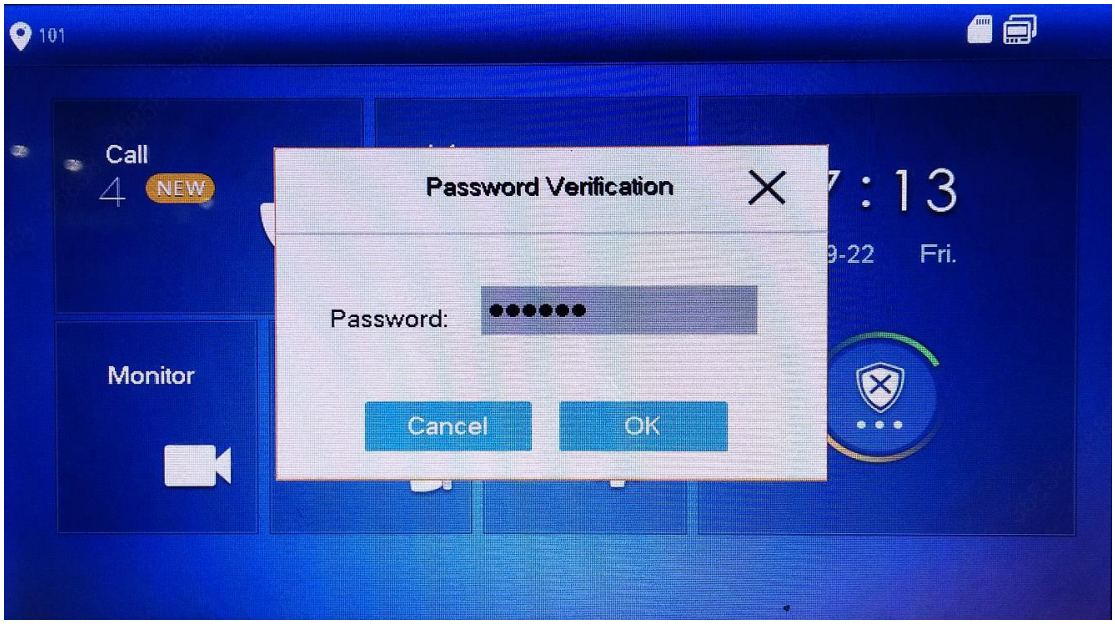
6 How to configure: snapshot, video & audio message and record

All the three functions need a micro SD card (max to 32GB) inserted in VTH. When you insert a SD card in VTH, there will be a 'SD card' icon at the top right corner .

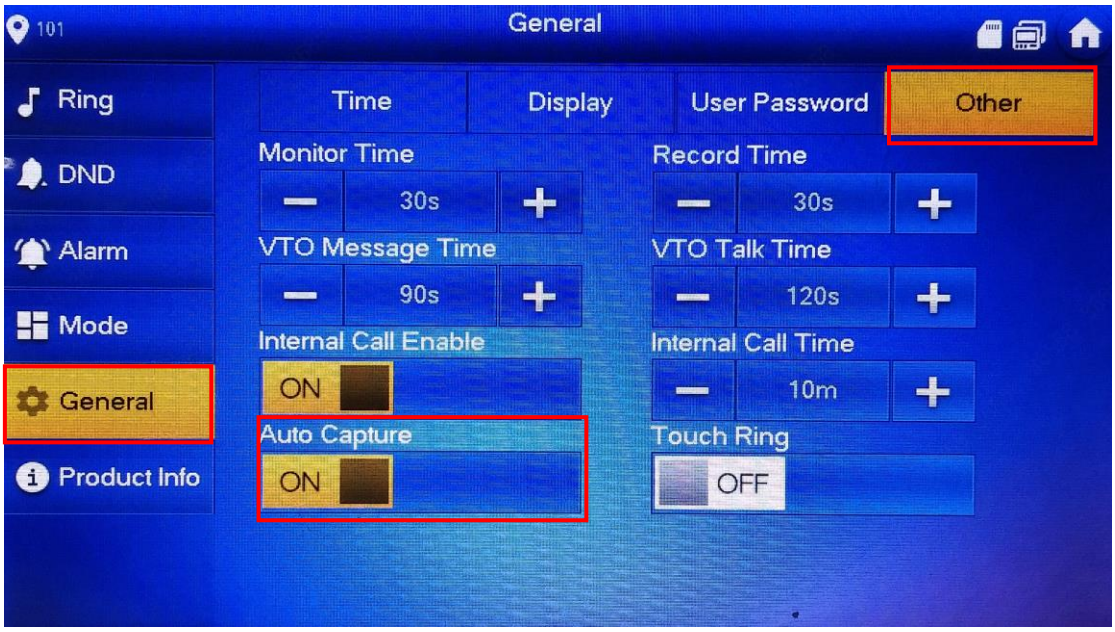
6.1 How to setup: VTH automatic snapshot

When no one answered, VTH will automatically capture and save 3 pictures no matter the visitor leaves a message or not.

Step 1 Short press 'Setting', and input password (default psw is 123456).

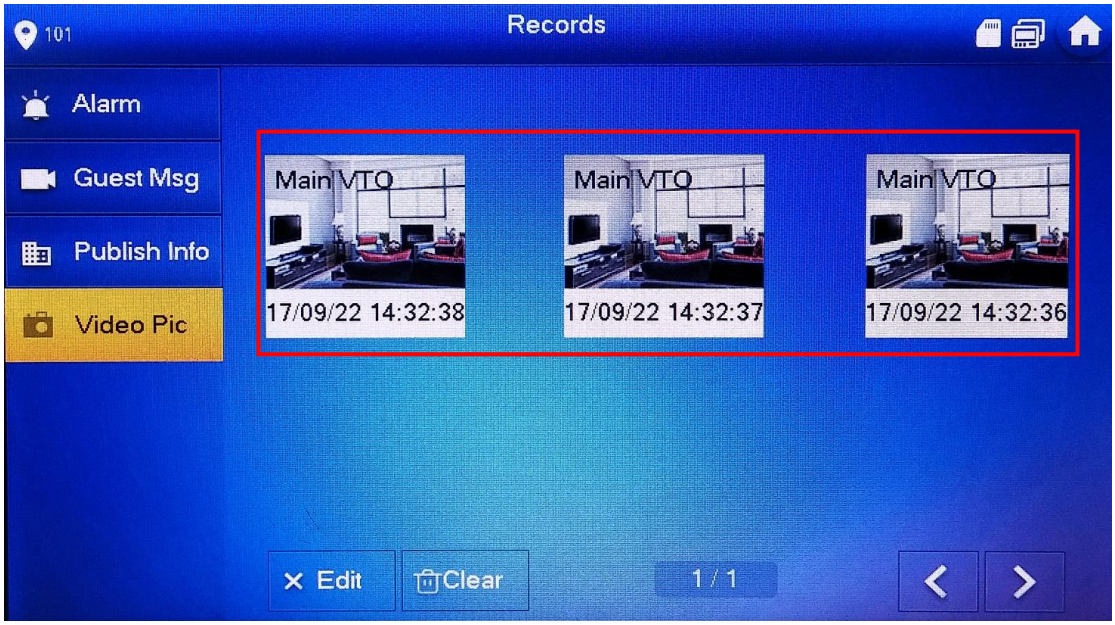


Step 2 General -> Other, enable 'Auto Capture'.



Check the pictures:

Info -> Video Pic, all the three pictures are shown here.



6.1 How to leave and check messages

When you call VTH without any answer, you can leave a massage at the end of the call.

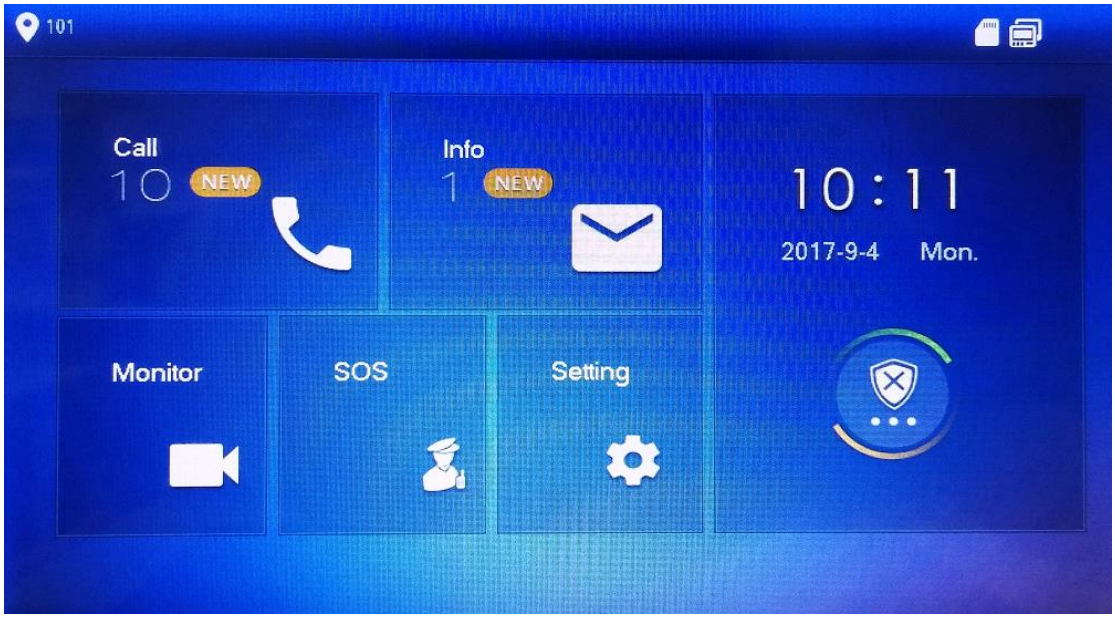
Step 1 Press the call button of VTO.

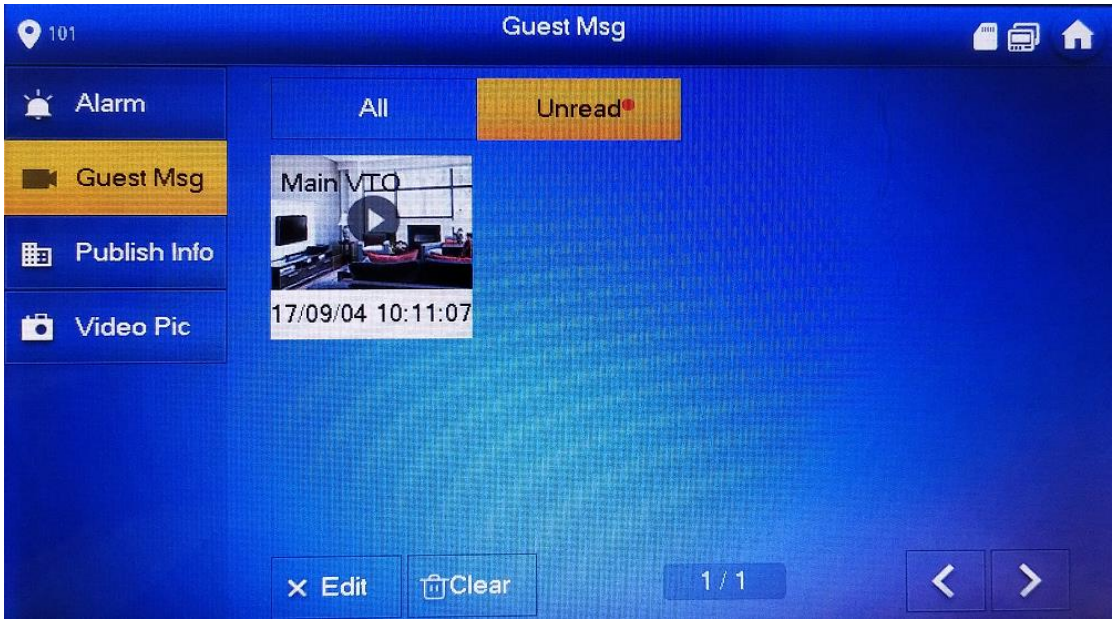
Step 2 When the calling time is over, you will hear 'Please press the button to leave the message', and then press the call button.

Step 3 When you hear 'Please leave the message after the beep', you can leave your message after the beep. Press the call button to save. Note: only messages over 5 seconds can be saved. When you hear 'The message is completed', it indicates that the message has been saved.

Check the message:

Step 1 Check Info **->** Guest Message **->** Unread, you can see all the unread messages.





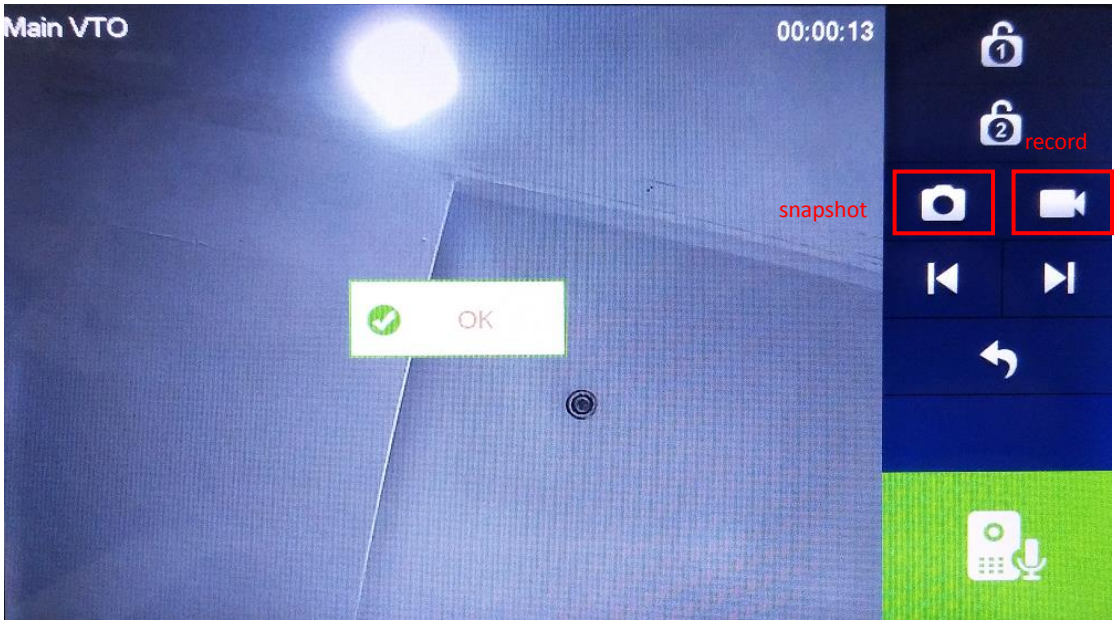
Step 2 Click the video to view.

6.2 How to snapshot and record

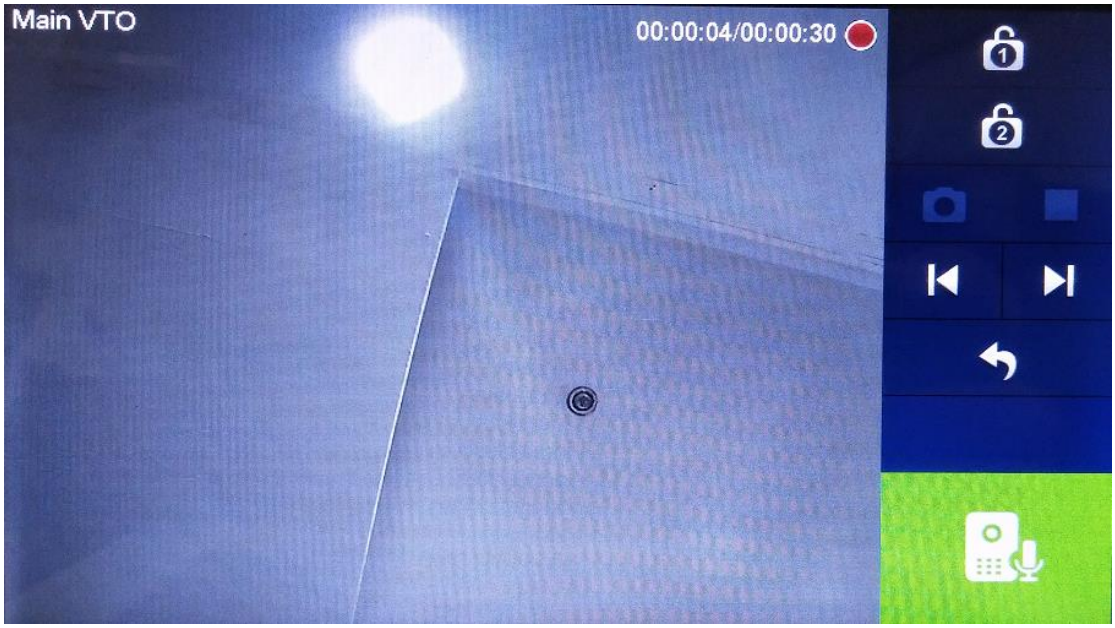
➢ **Snapshot and record when monitoring VTO**

Step 1 Check 'Monitor' -> 'Door', select one VTO to monitor.

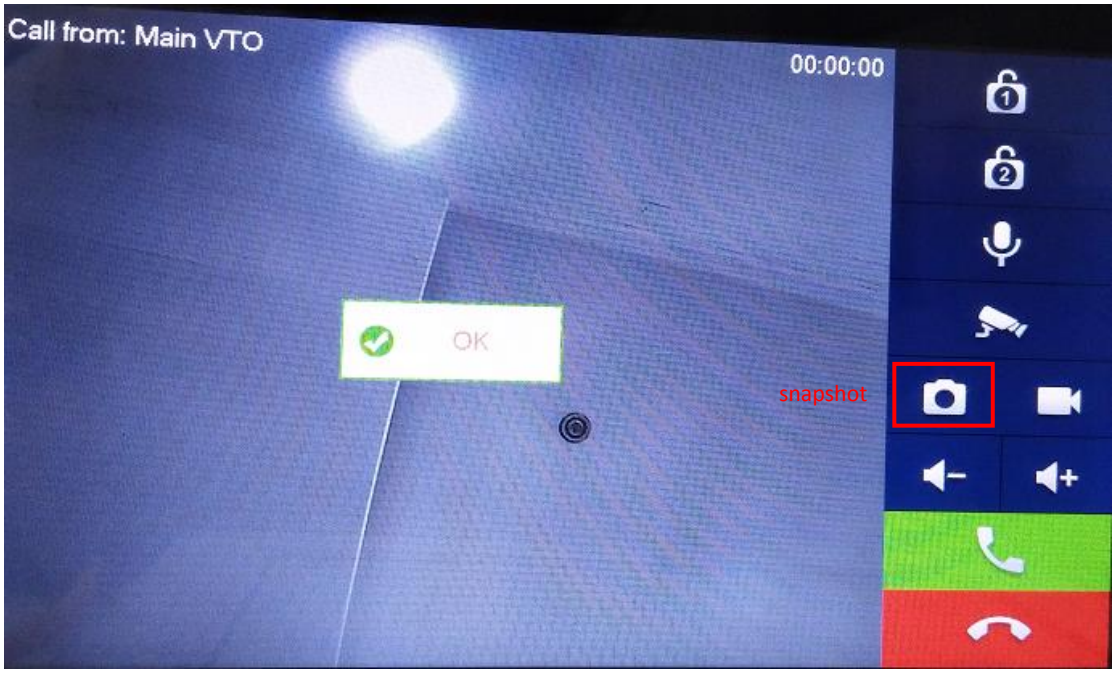
Step 2 Click the 'snap 'button to take a pic. One snapshot will save two pictures.

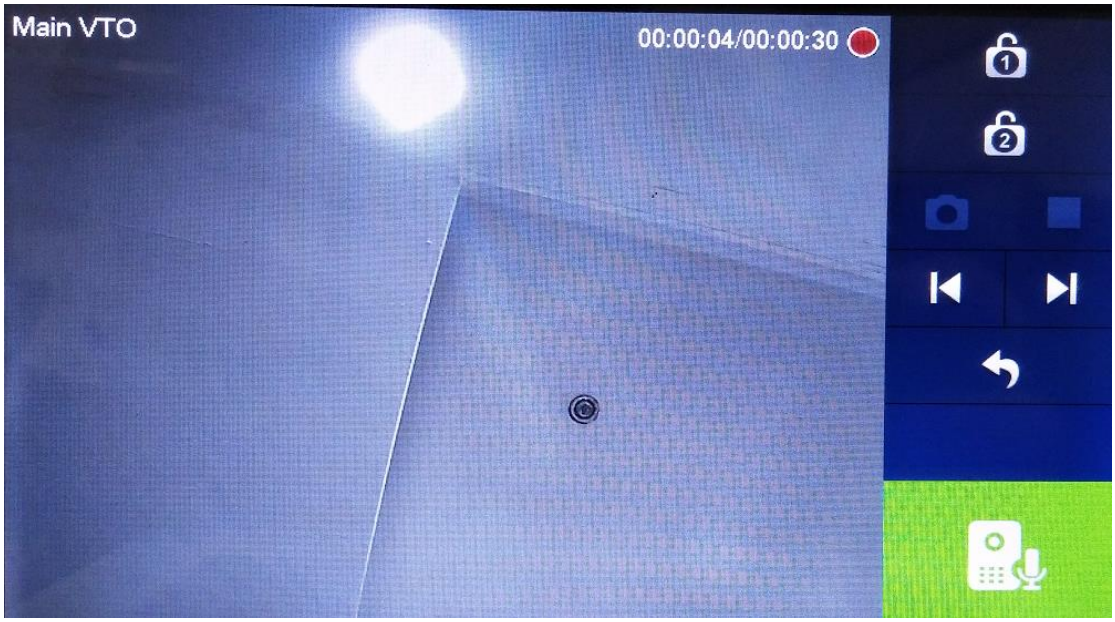


Step 3 Click the 'Record' button to record, the video time is at least 5 seconds and you can manually stop recording.



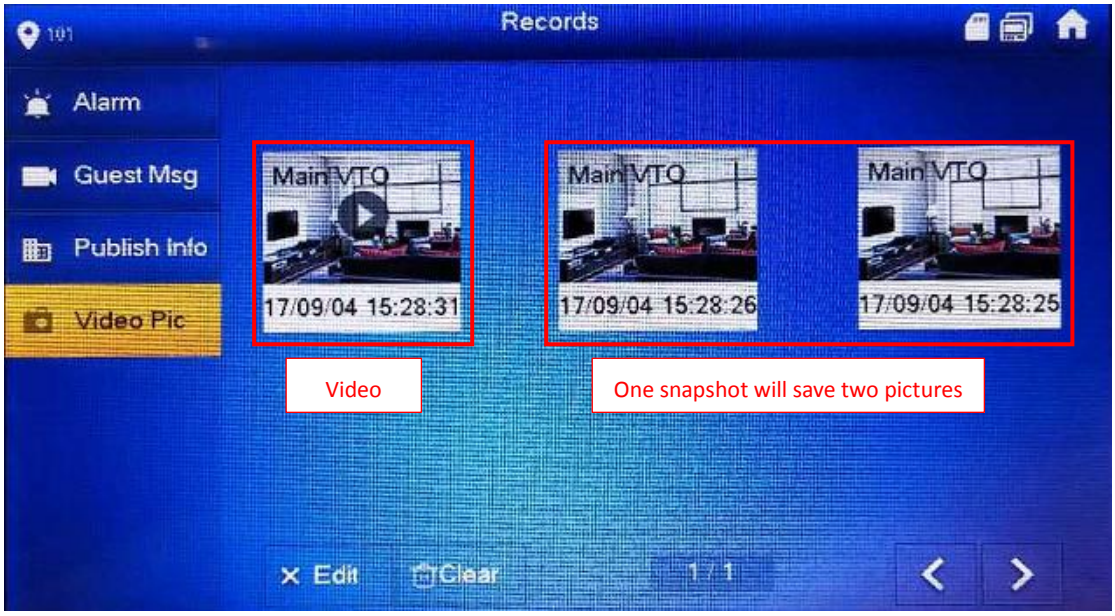
- **Snapshot and record when calling from VTO**



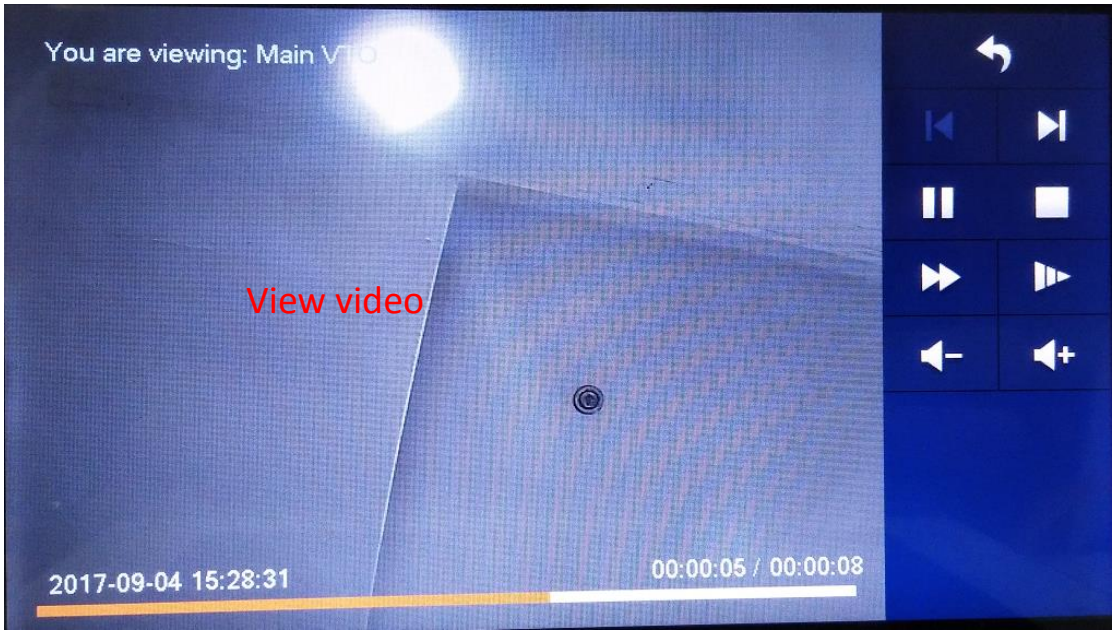


Check the video and pictures:

Step 1 Check Info **->** Video Pic, you can see all the video and pictures.



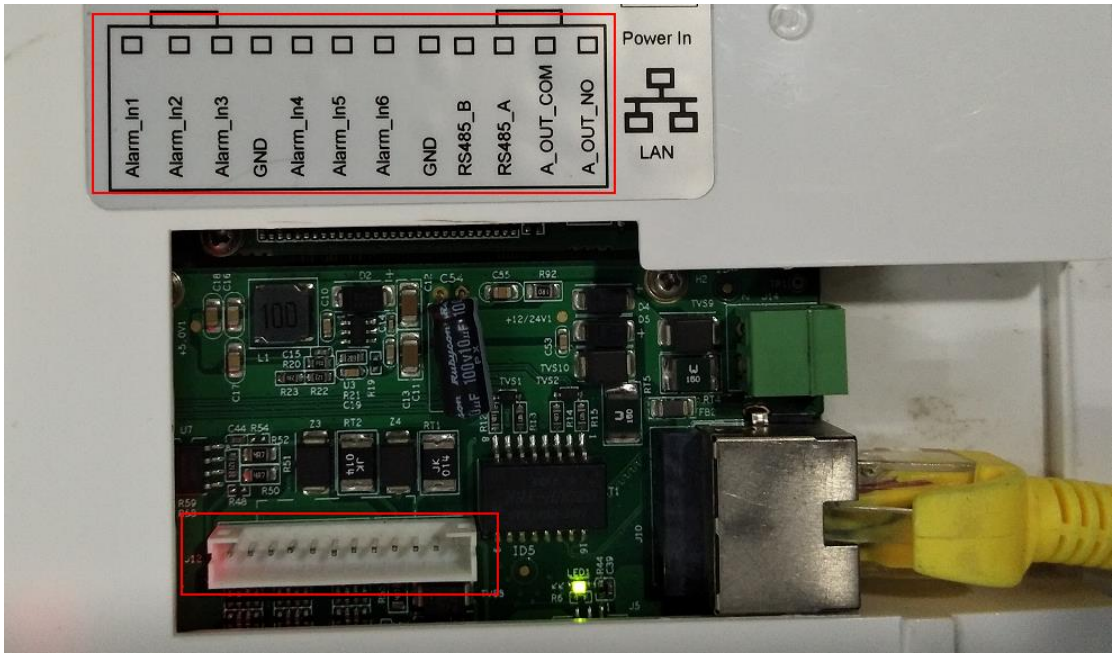
Step 2 Click the video or pictures to view.

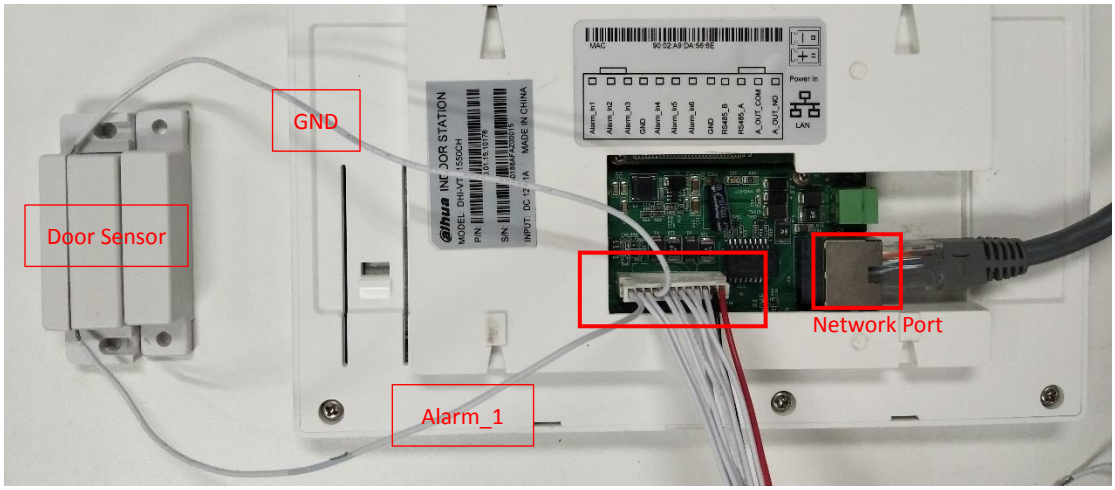


7 How to configure: VTH alarm

VTH1550CH supports 6ch alarm in & 1 alarm out.

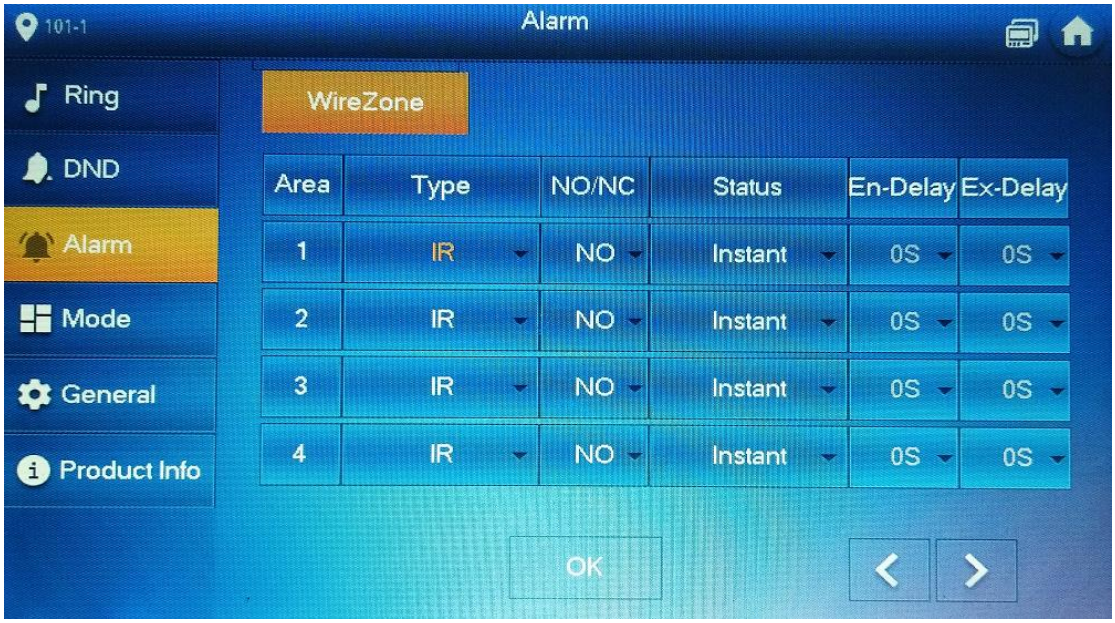
7.1 Wiring instructions





7.2 How to setup alarm zone

Step 1 Go to Setting -> Alarm -> Wire Zone.



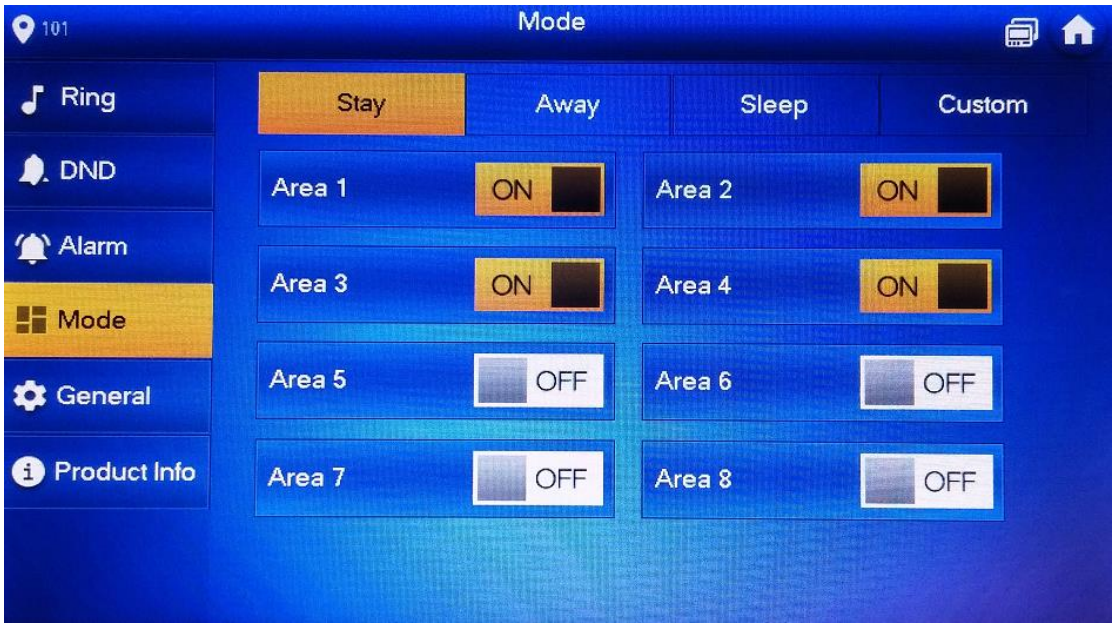
Step 2 In 'Wire Zone' interface, follow the below chart to select zone type, NO/NC, alarm status and delay time.

Parameter	Note
Area	Set detector zone number
Type	According to each zone detector type, select zone type, including IR, gas, smoke sensor, urgency button, door sensor, stolen and perimeter.
NO/NC	Set detector NO or NC.
Status	**Instant:** Once prompt tone stops, it enters arming. **Delay:** It enters arming when delay time ends. **Bypass:** This zone is shielded during current arming. When disarm, it restore non-bypass status. **Remove:** This zone is shielded during arming and disarming.
Enter-Delay	After disarming is set, it delay by this set time before disarming.
Exit-Delay	After arming is set, it delay by this set time before alarming.

7.3 How to setup alarm mode

Go to Setting **->** Mode, set switch status of each zone under each mode, including stay, away, sleep and custom.

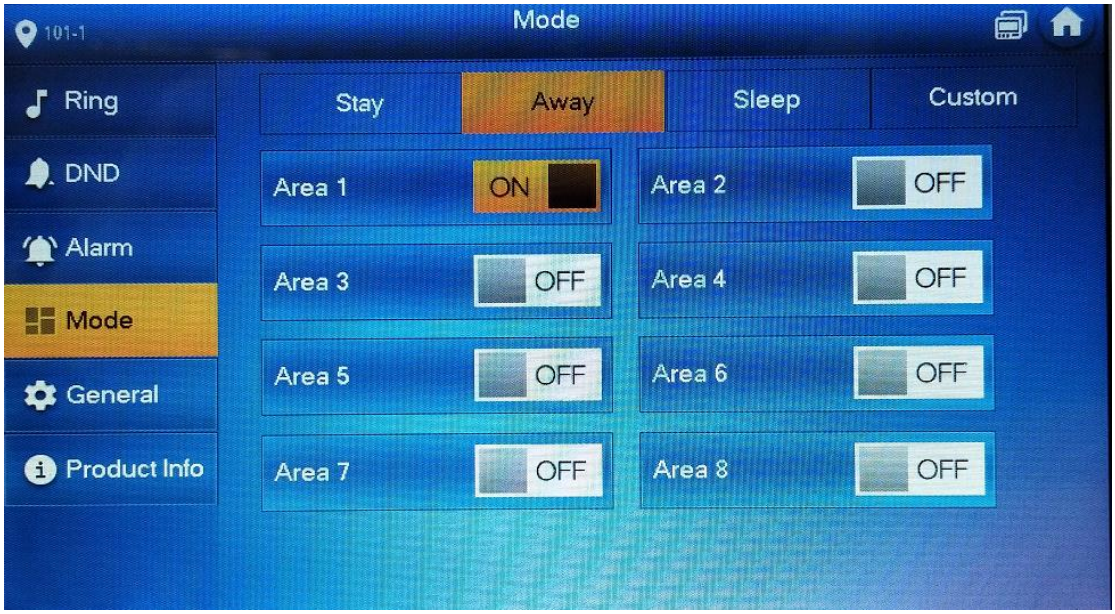
Note: You can set zone switch status for each mode in disarming status only.



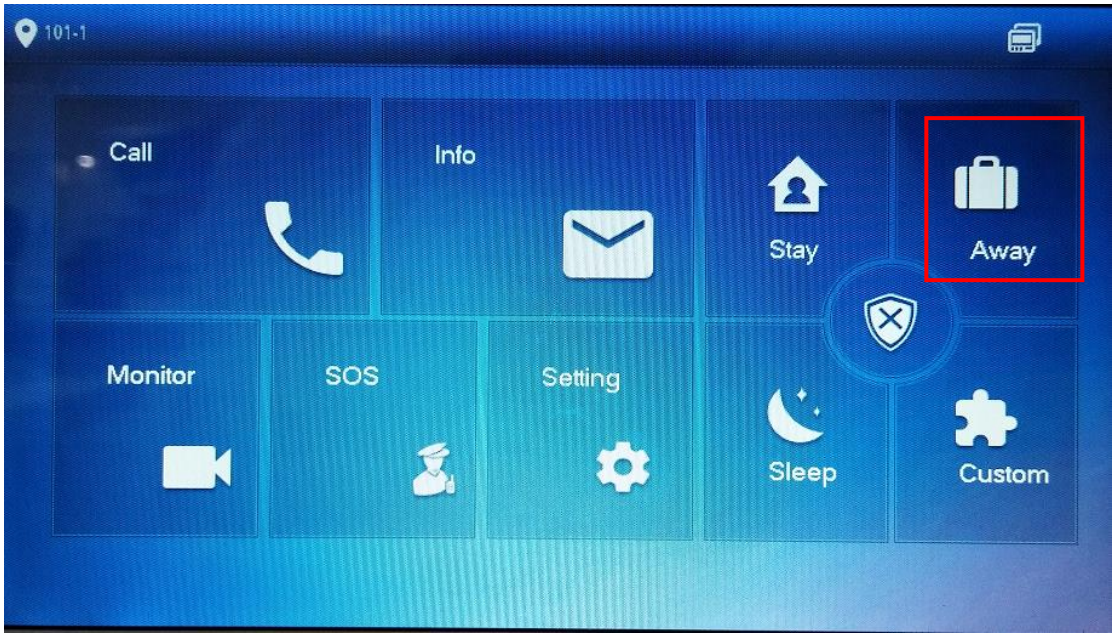
7.4 Check result

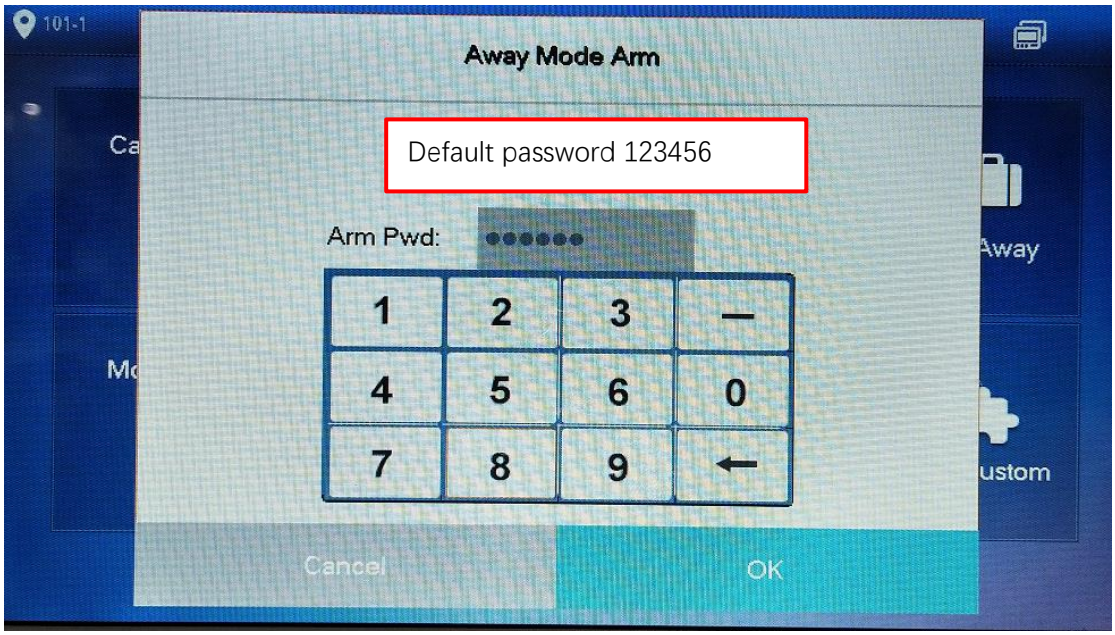
Area 1: Door sensor; Enter-Delay:10s; Exit-Delay: 30s;

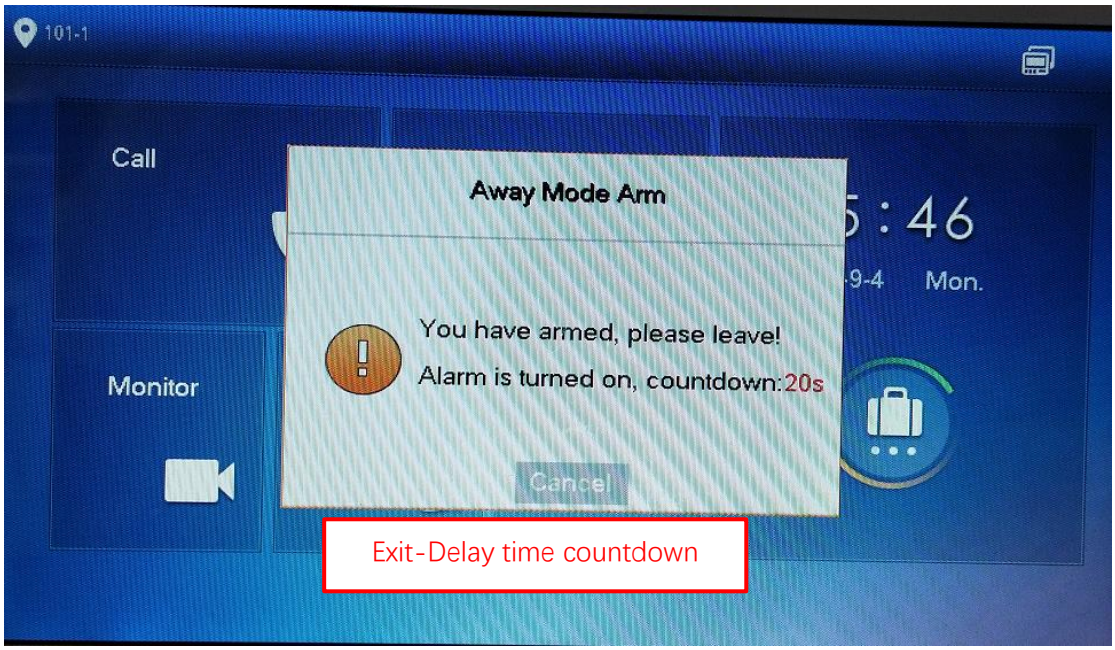
Step 1 Setup mode **->** Away mode.

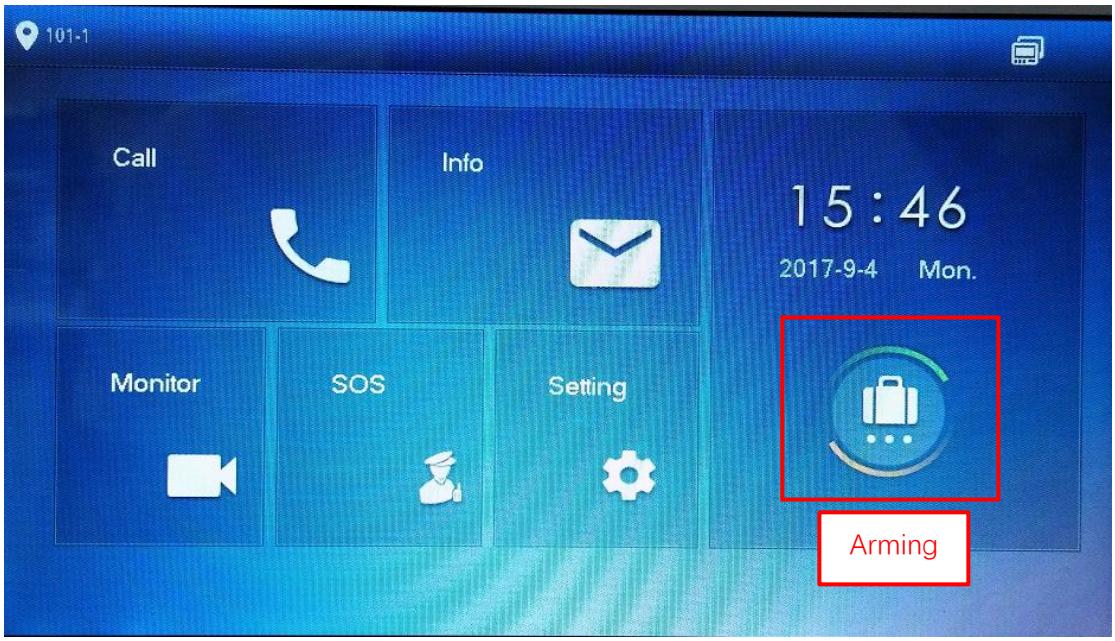


Step 2 Arming.

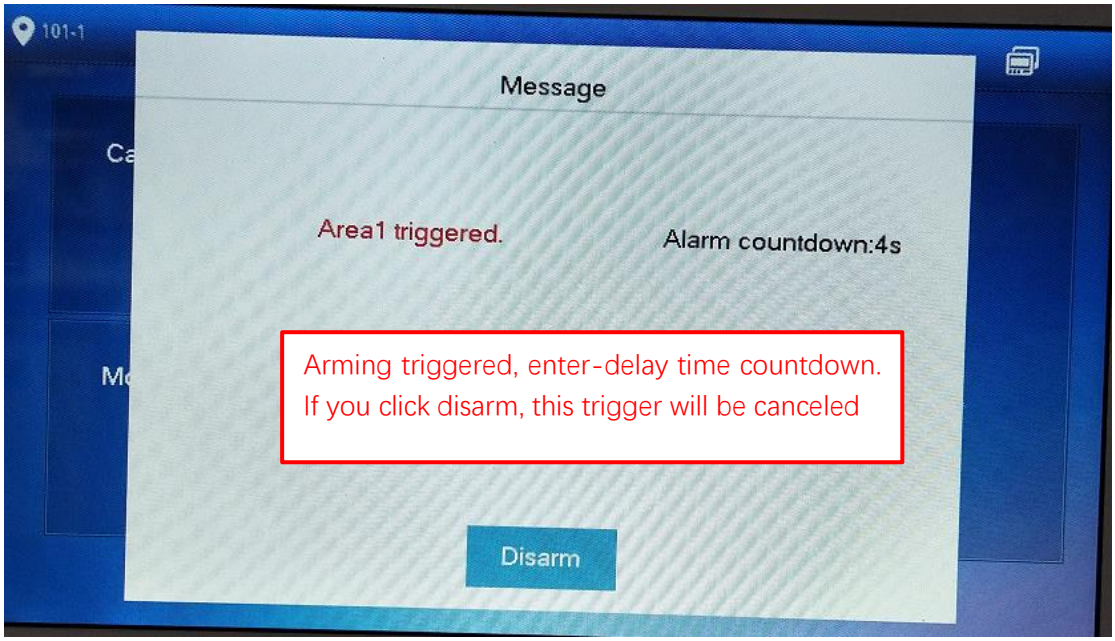

101-1
Call
Info
Stay
Away
Monitor
SOS
Setting
Sleep
Custom

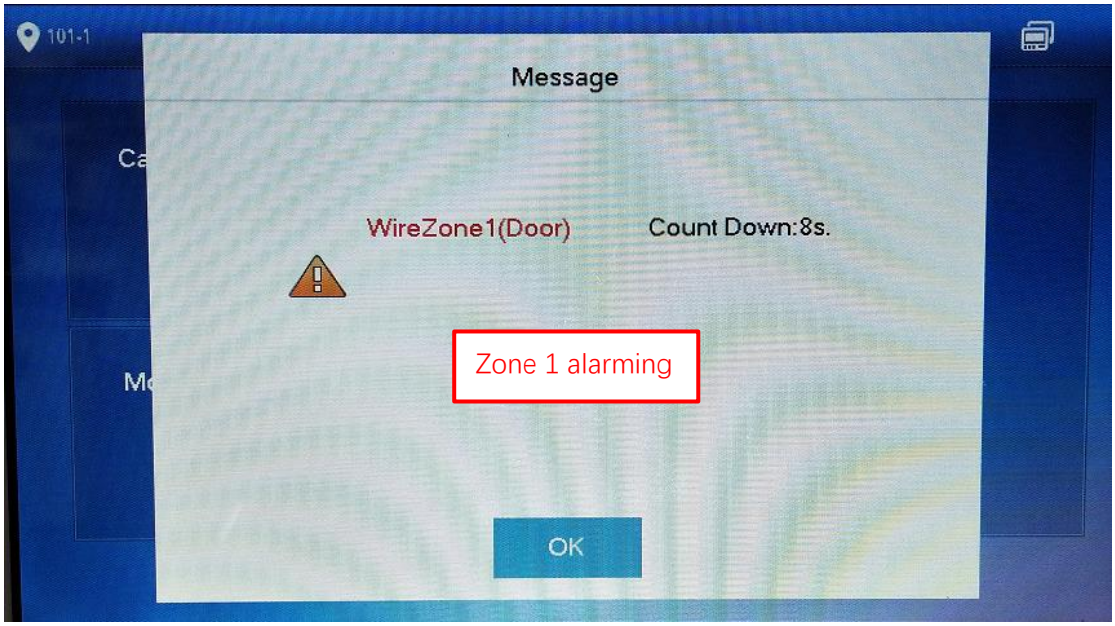

101-1
Away Mode Arm
Default password 123456
Arm Pwd:
1
2
3
4
5
6
0
7
8
9
Cancel
OK



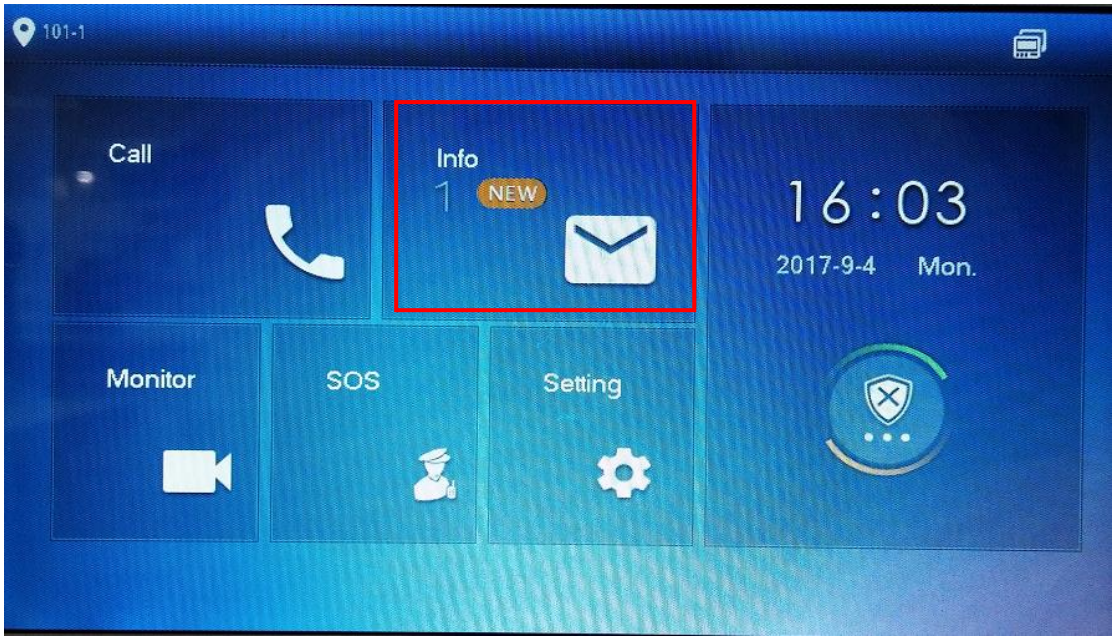


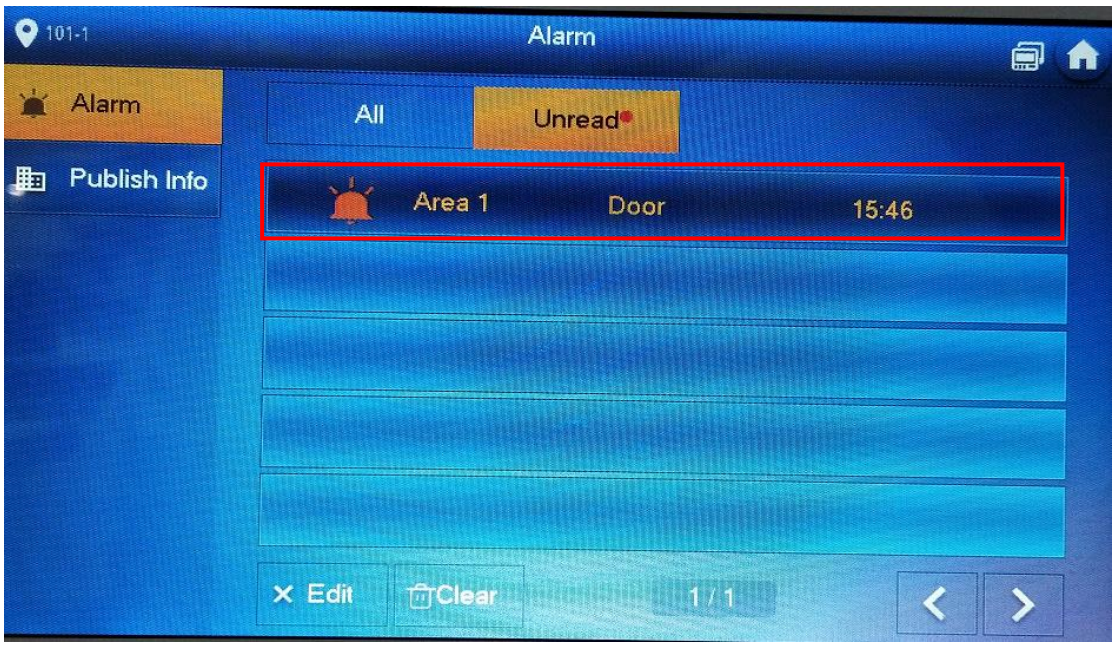
Step 3 Alarm triggering.





Step 4 Alarm record. Check 'Info' -> 'Alarm'.





8 How to setup VTH DND mode

During a certain period, if you do not want to be disturbed, you can go to Setting>DND to enable DND function. By default, DND is not enabled.

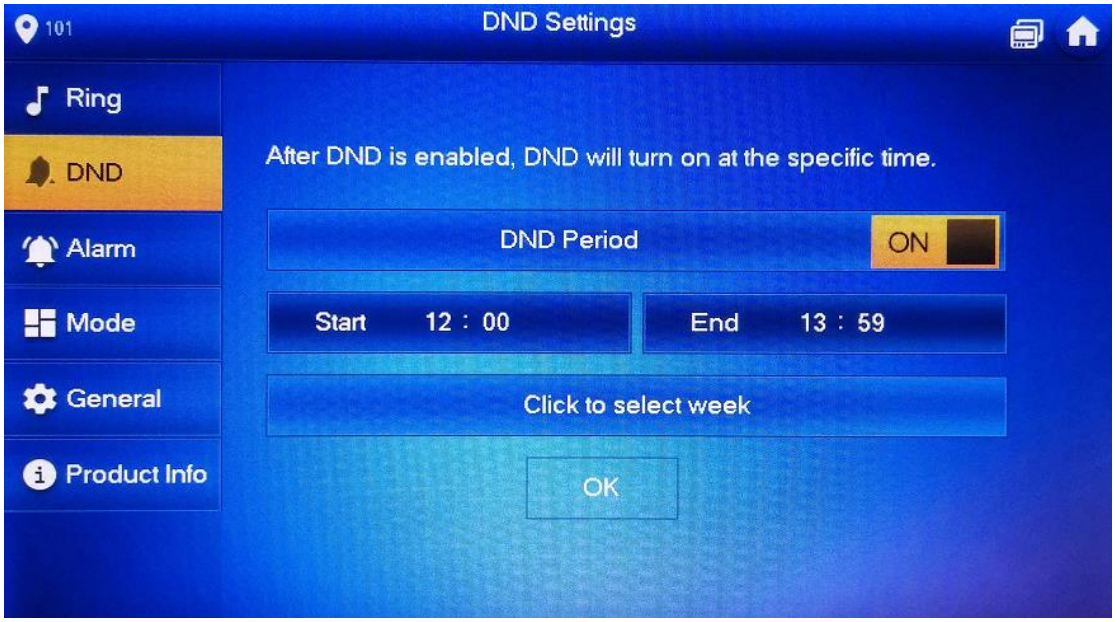
8.1 How to set DND period

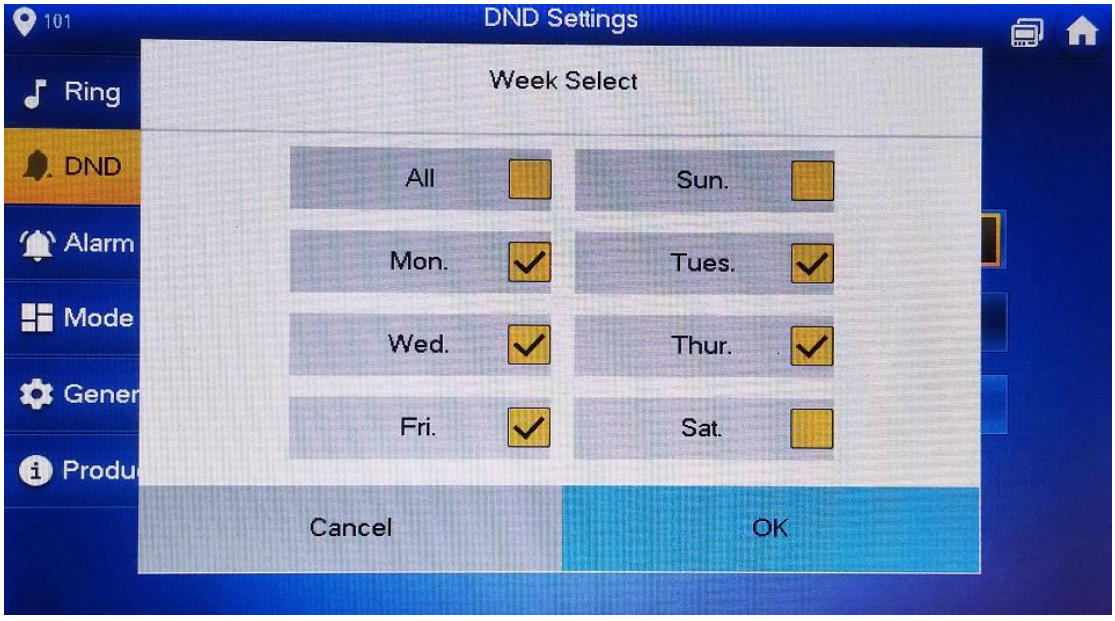
Step 1 Go to Setting -> DND.

Step 2 Set period.

Step 3 Set week.

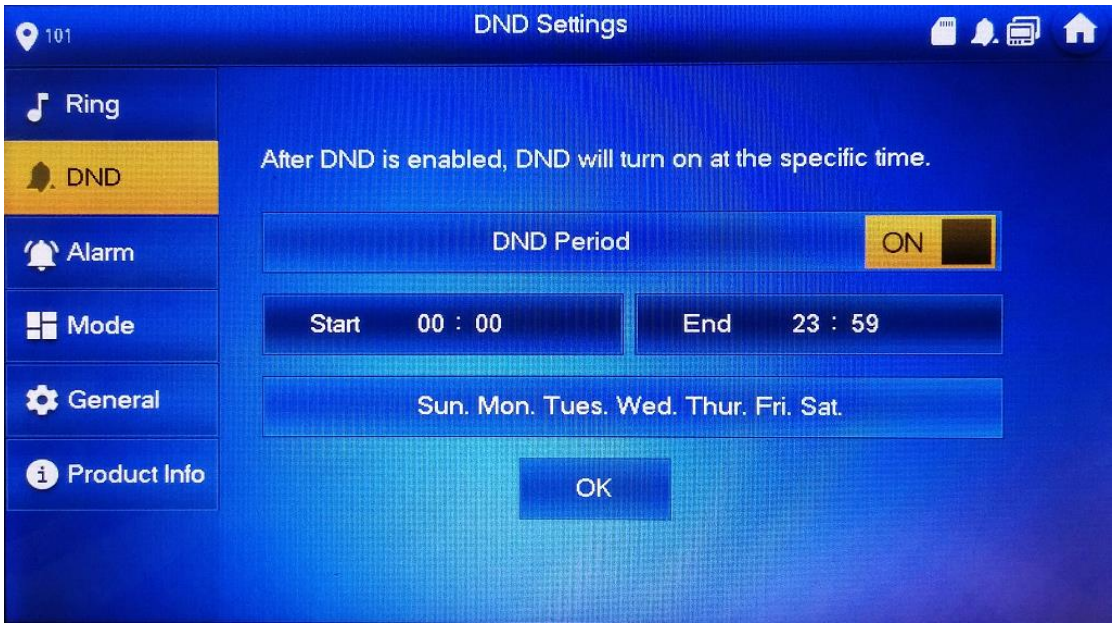
Note: Extension VTH is the synchronized with master VTH.

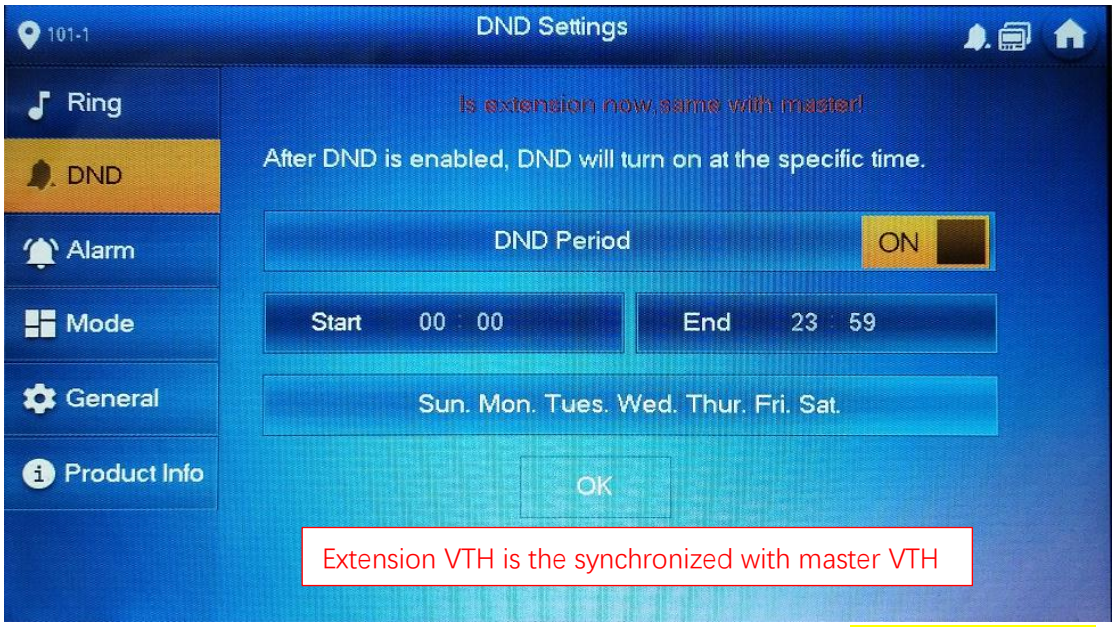




8.2 Check result

Step 1 Setup DND time.





Step 2 When you call VTH from the VTO, the system will prompt you 'the line is busy now'.

9 How to configure: SmartPSS

9.1 How to register to the platform

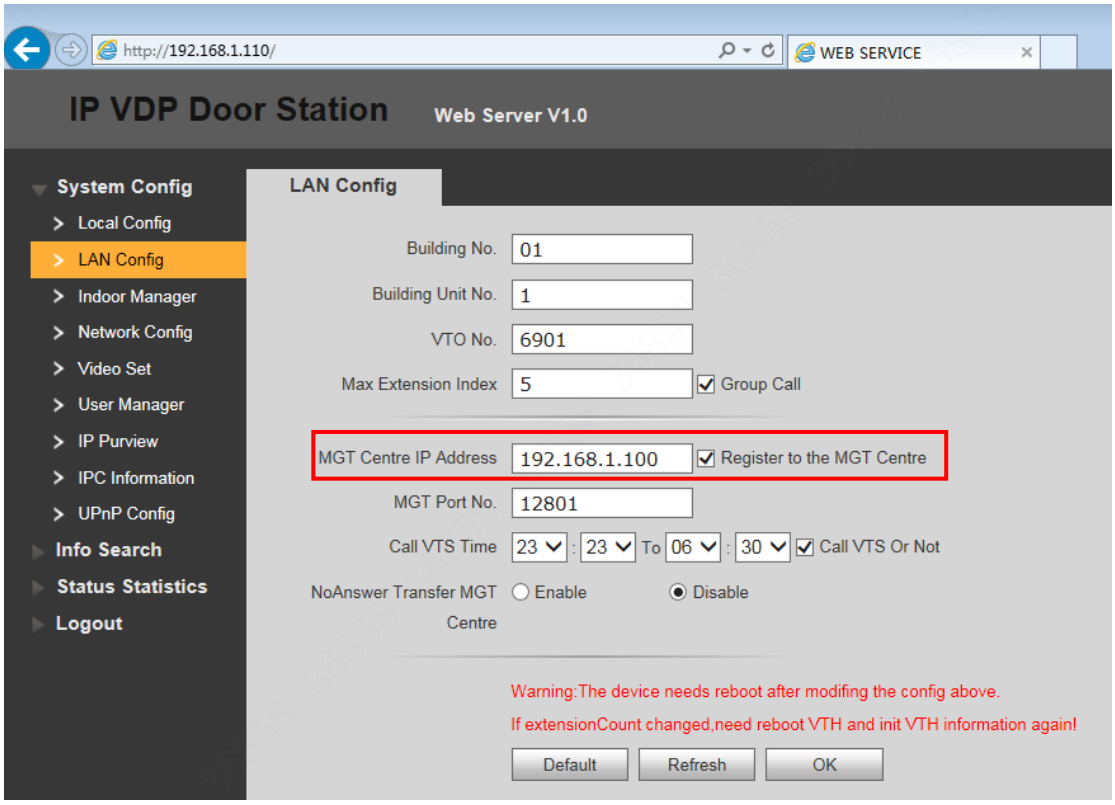
Step 1 VTO web interface- > System Config - >LAN Config, input MGT center IP Address, and check 'Register to the MGT'.

Step 2 If you check 'Call VTS ', during the set time, all of the calls from VTO will directly transfer to MGT center and VTH does not receive the call.

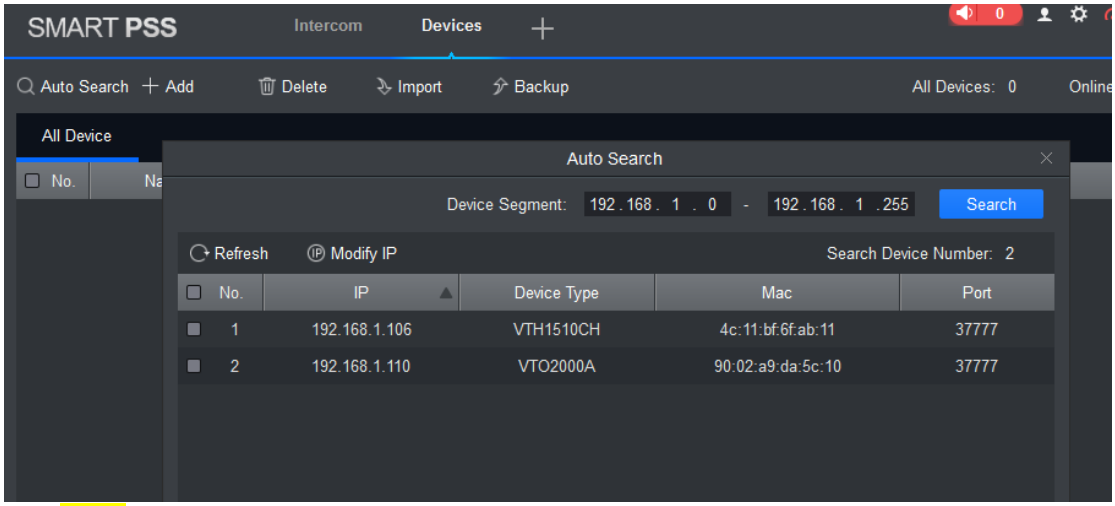
Step 3 If you enable 'No answer transfer to MGT', the call will transfer to MGT when nobody answered.

Note: 'No Answer Transfer' and 'Leaving Message' functions have only one enable at one time. If you want to enable 'No Answer Transfer' function, you must set 'VTO Message Time' as 0 second (setting **->** General **->** Other).

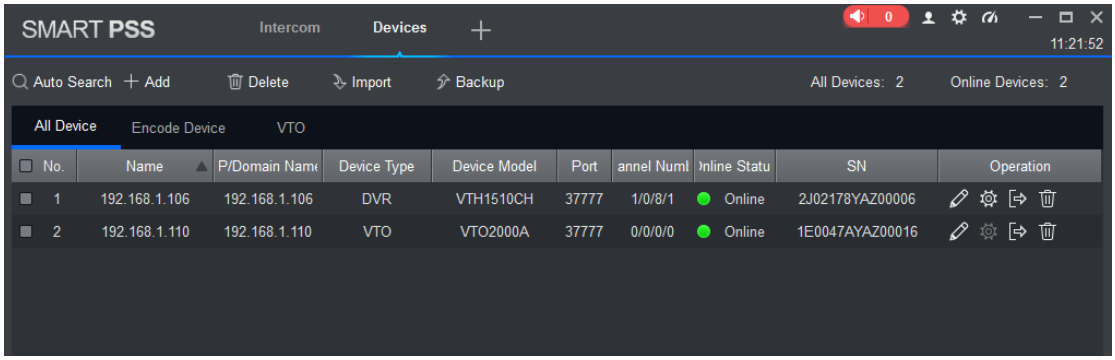
Step 4 Click 'OK' to save and reboot the device.



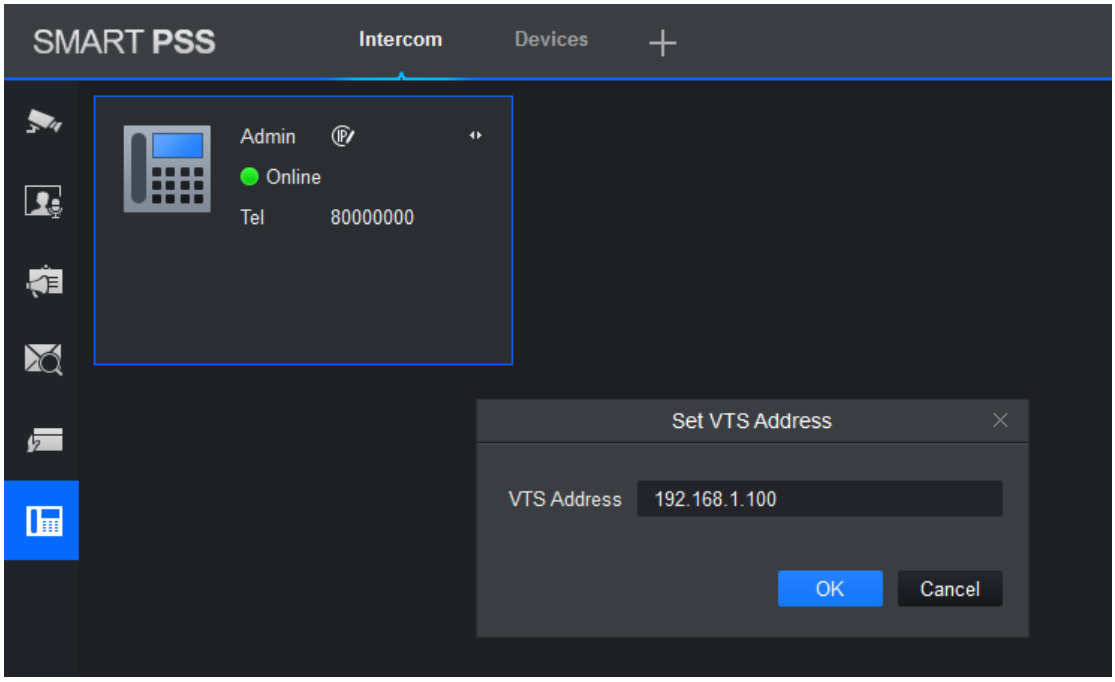
Step 5 Add device on SmartPSS. Click 'Auto Search' to search the devices, and select the VTO and VTH to add.



Note: In cybersecurity baseline, you must input the correct account and password. For VTH, account is 'admin', password is projecting password (default 888888).

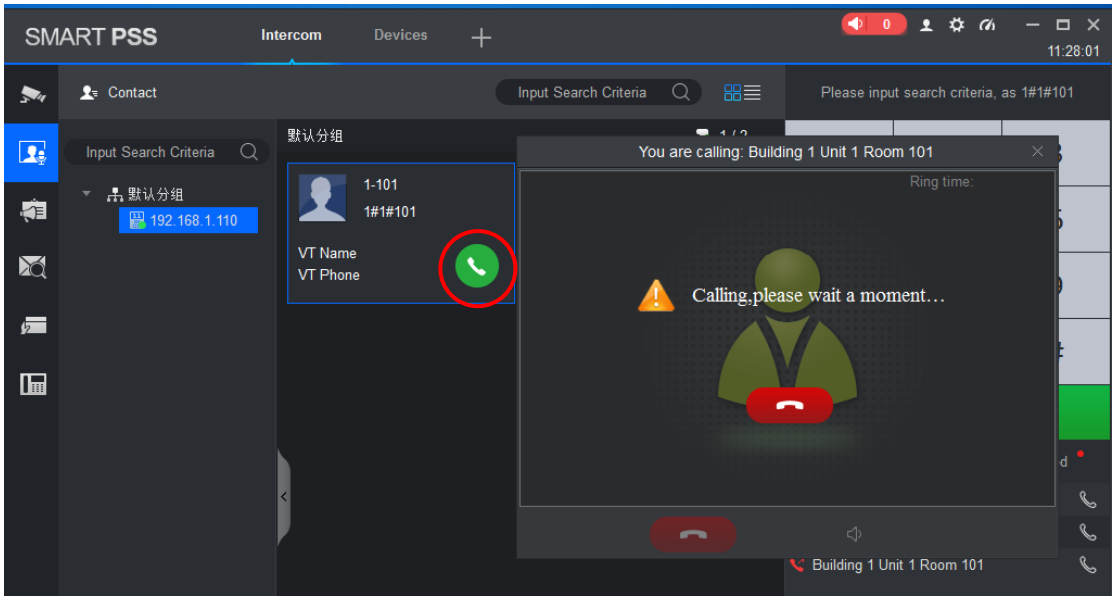


Step 6 Modify VTS Address to the MGT center IP address.

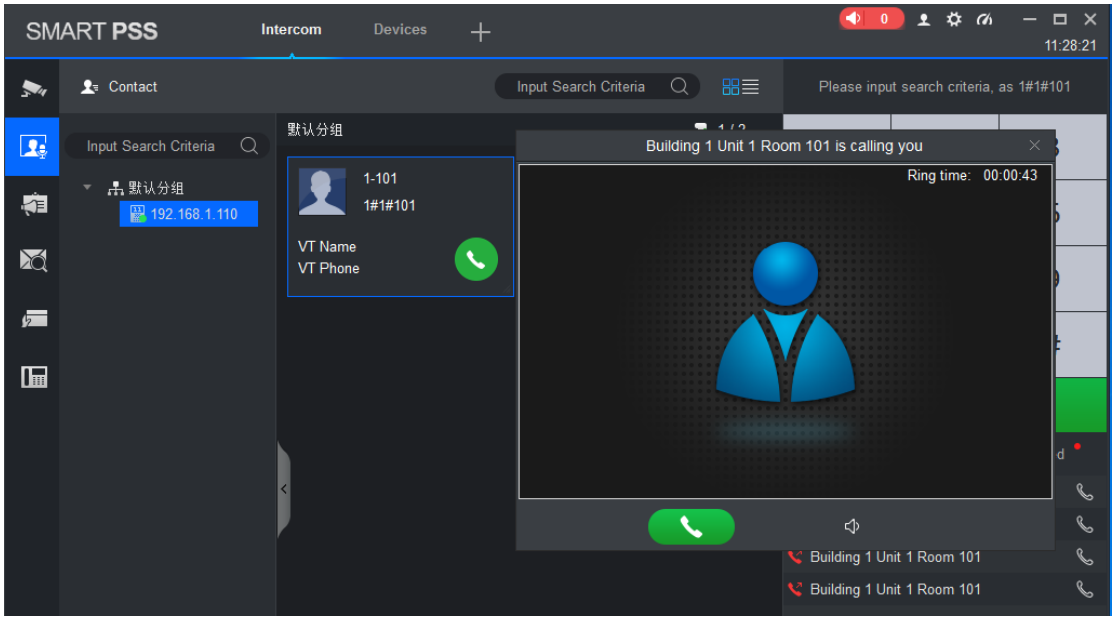


9.2 Check result

MGT center Calls VTH:



VTH Calls MGT center:



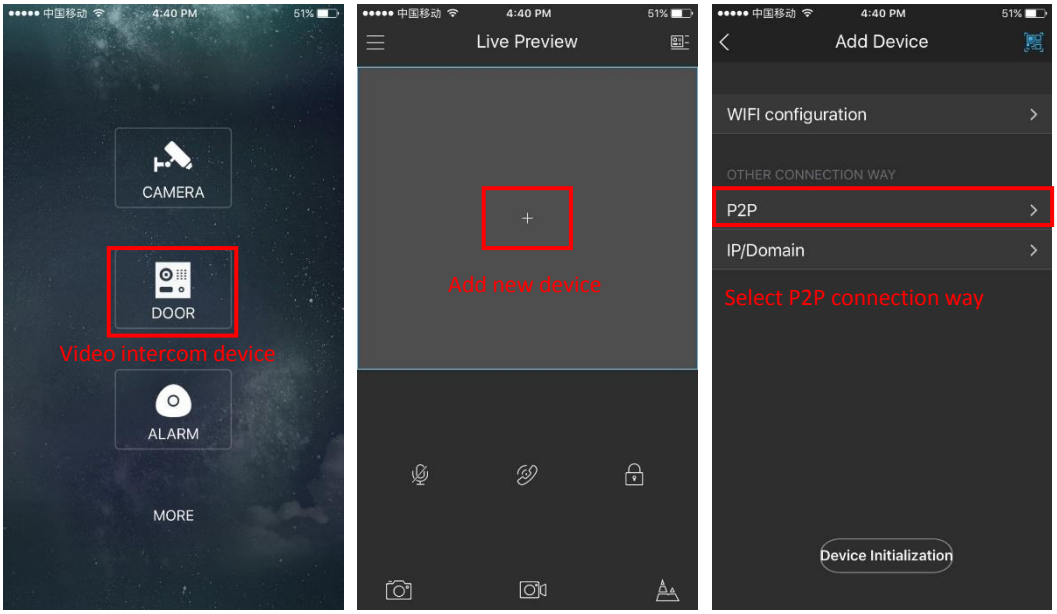
10 How to configure: mobile App DMSS

10.1 How to configure: DMSS

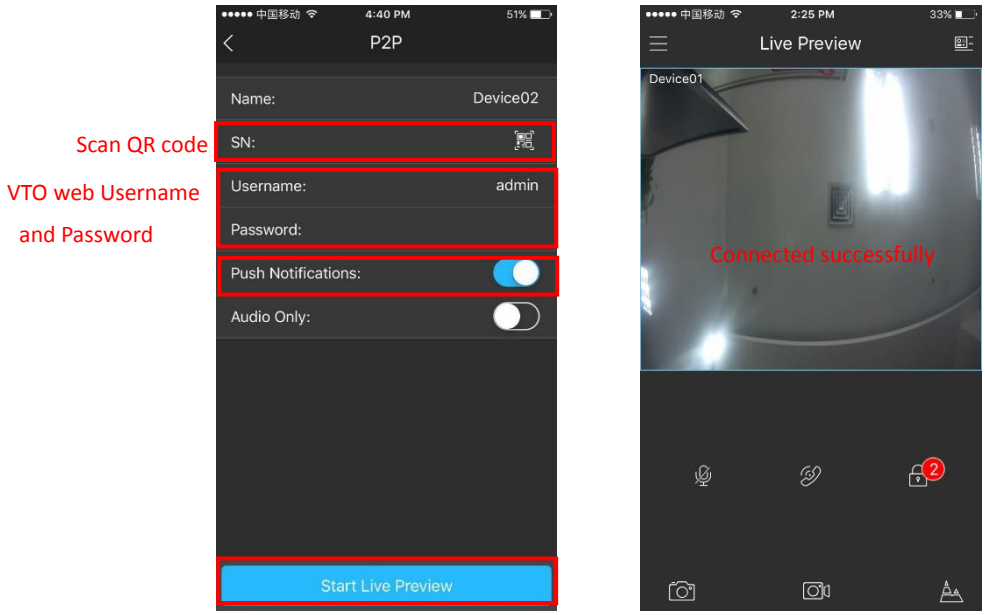
Step 1 Make sure the VTO is connected to the public network.

Step 2 Login VTO web interface, Check System Config -> Network config -> P2P, you need to 'Enable' it. When connected successfully, the status shows 'Online'.

Step 3 Open the 'DMSS' App -> 'Door', touch '+' to add new device. Select 'P2P' connection way to connect with VTO2000A.

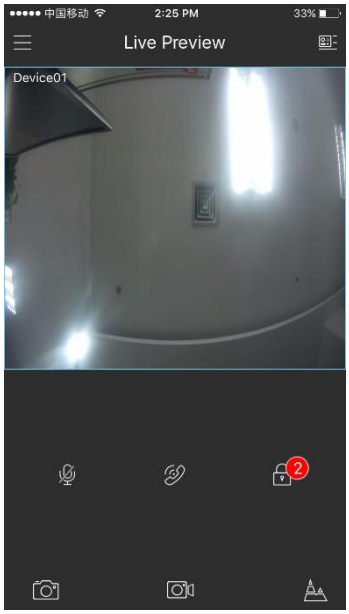


Step 4 touch 'SN' to scan QR code shown on the web interface, input 'Username' and 'Password' of VTO2000A. You must enable 'push notification', or the mobile phone can not receive the call from VTO. Then touch 'Start to Preview'.



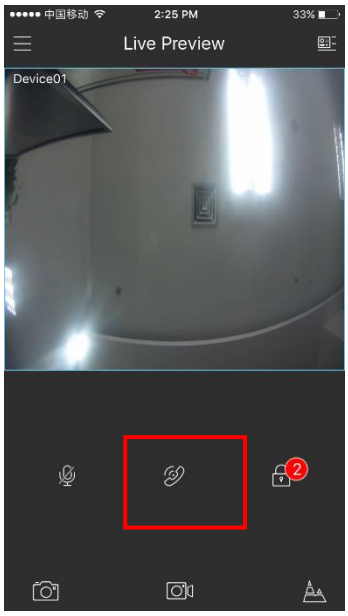
10.2 Check Result

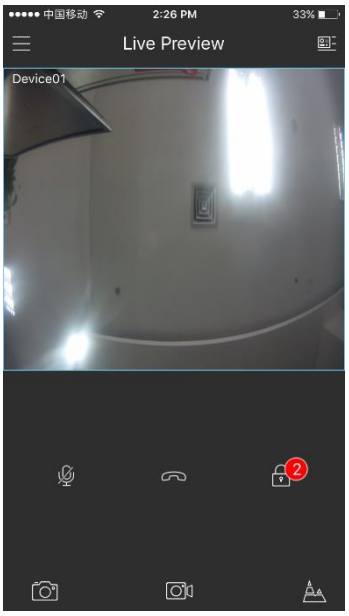
Call from VTO:



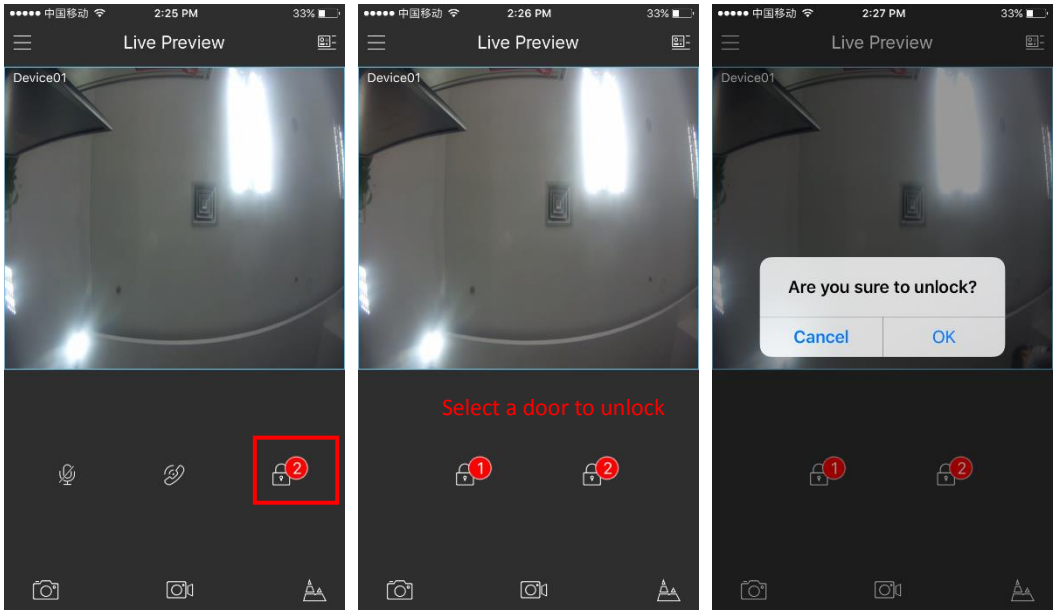
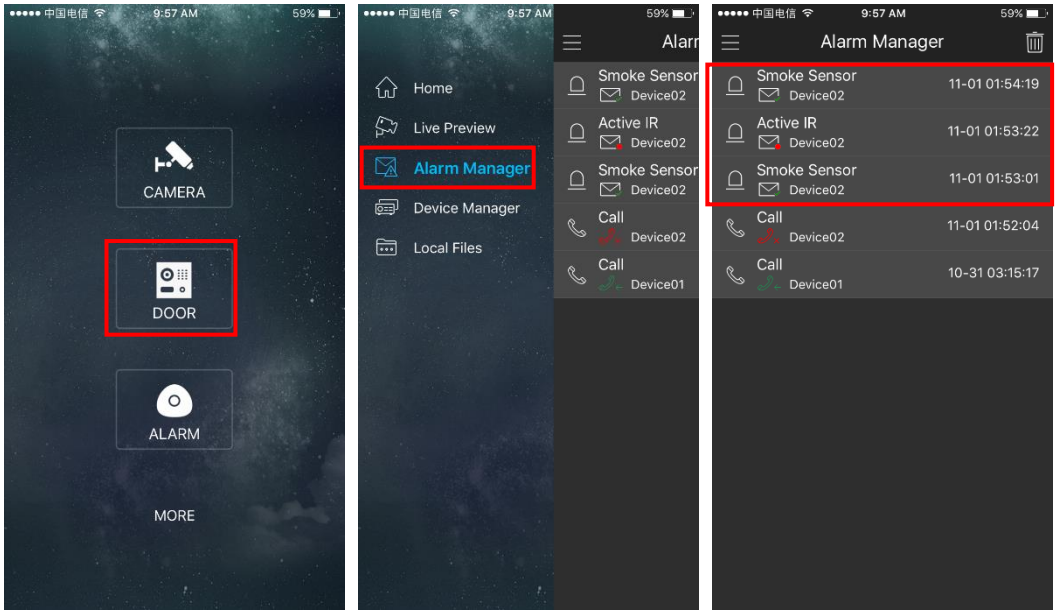
Answer:

Press the icon to answer.





Unlock the door:



Check alarm information