Fast operation of IP Apartment System

2017.8
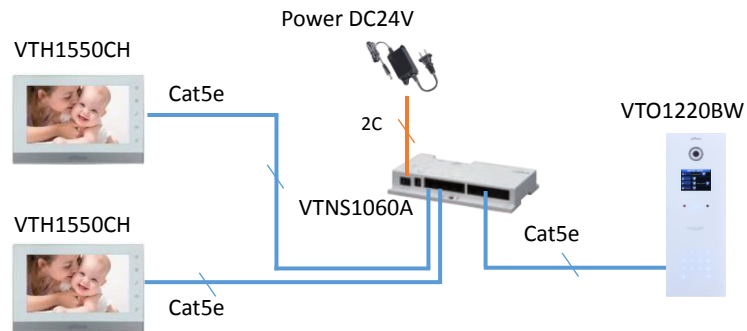
Content

1. System Structure

This document listed the involved firmware and software, and explained the configuration of IP apartment solution, including the VTO, VTH, IP Camera and IP switch.

1.1 Topology

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

1.2 Demo environment

1.3 Firmware and software

|		
VTO1220BW	**General_VTOXXX_Eng_P_16M_V3.120.0000.0.R.20170803** Device1 IP: 192.168.1.110 Building No: 01 Unit No: 1 VTO NO: 6901	VT cybersecurity baseline
VTH1550CH	**General_VTH151X_Eng_P_V4.000.0000.0.R.20170803** Device IP: 192.168.1.106 Room NO: 101	VT cybersecurity baseline V4.0 indicates NEW UI
VTO1550CH	**General_VTH151X_Eng_P_V4.000.0000.0.R.20170803** Device IP: 192.168.1.108 Room No: 101-1	VT cybersecurity baseline
IPC-HDW1220SN	Software Version: 2.420.0000.14.R, build : 2016-04-18 IP: 192.168.1.107	
IE 11	Internet Explorer 11 Version :11.0.9600.18762	
Chrome	Google Chrome Version: 60.0.3122.113(64 bit)	
Windows 7	Windows 7 Enterprise edition	

2. How to configure: 1 VTO + m VTH

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

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

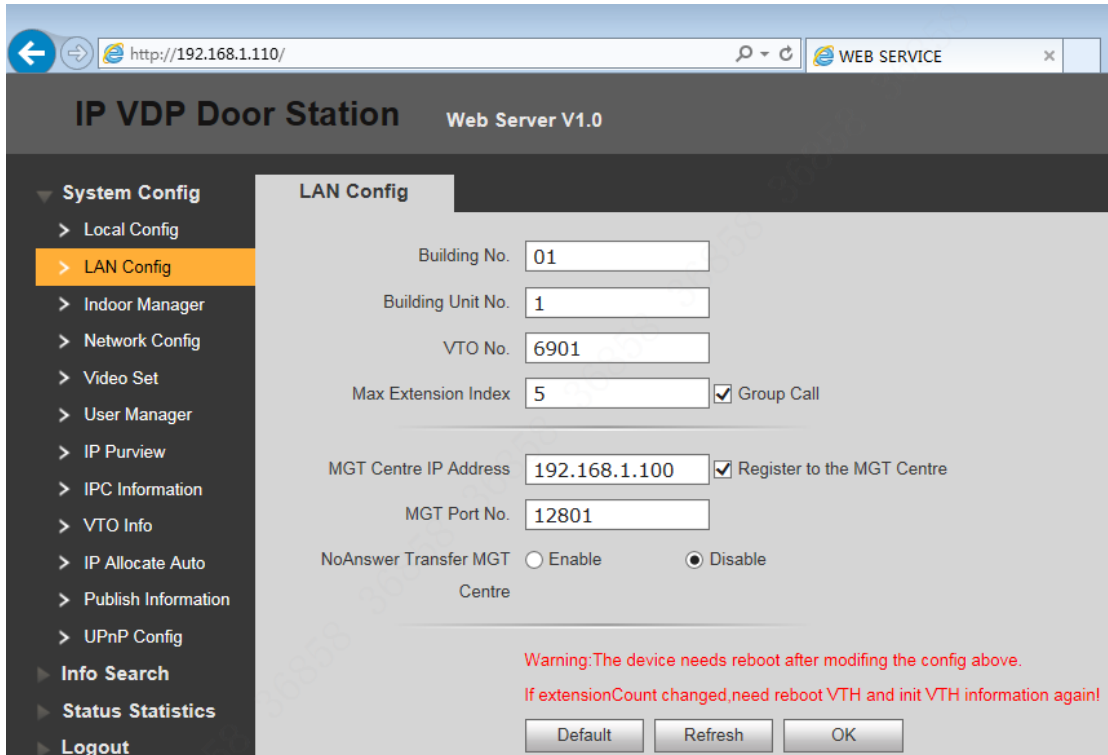### 1.1 How to setup the VTO

Step 1 Login VTO1220BW web interface http://192.168.1.110 , system Config **->** Local Config, set 'Device Type' as 'Unit Door Station'.
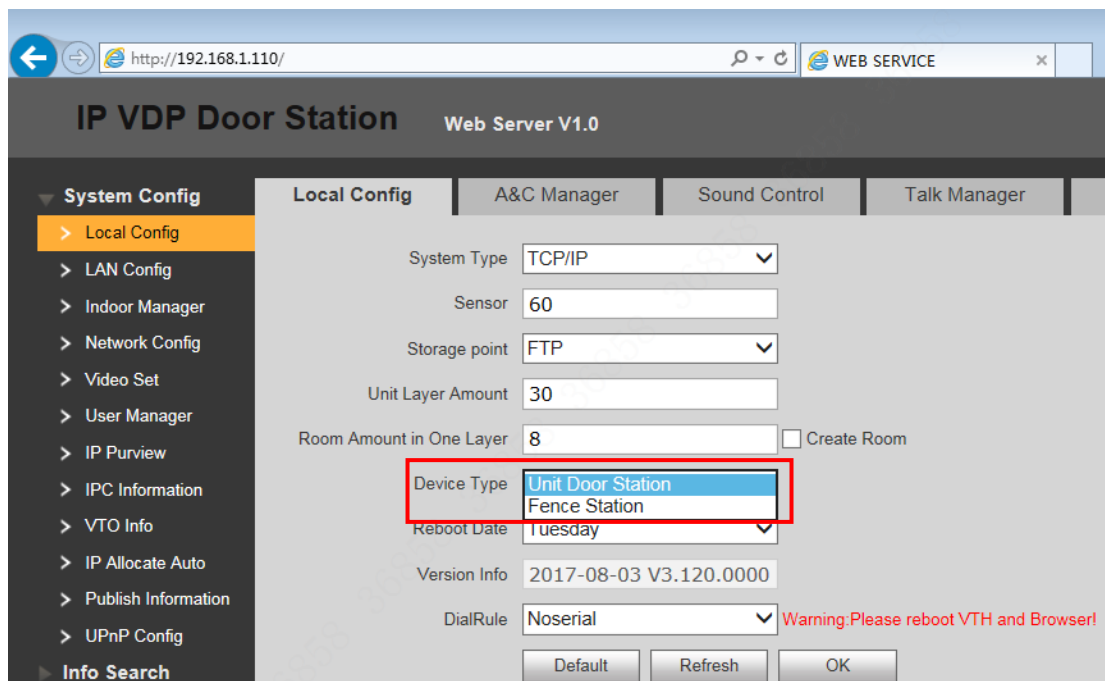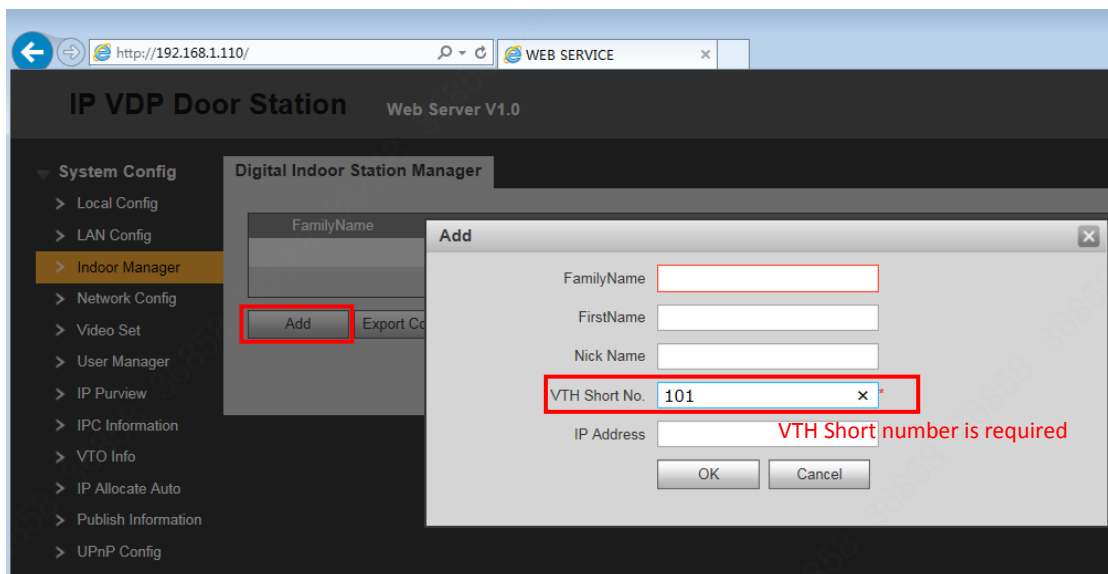

Step 2 Check LAN Config, make sure to tick the 'Group Call', and click OK to save.

Note: if you have the MGT center, you can configure the MGT information (for more details, see chapter 5); if not, keep default.

Step 3 System Config -> Inoor Manager, click on 'Add'. You need to input room number of VTH in the 'VTH Short NO', such as 101.
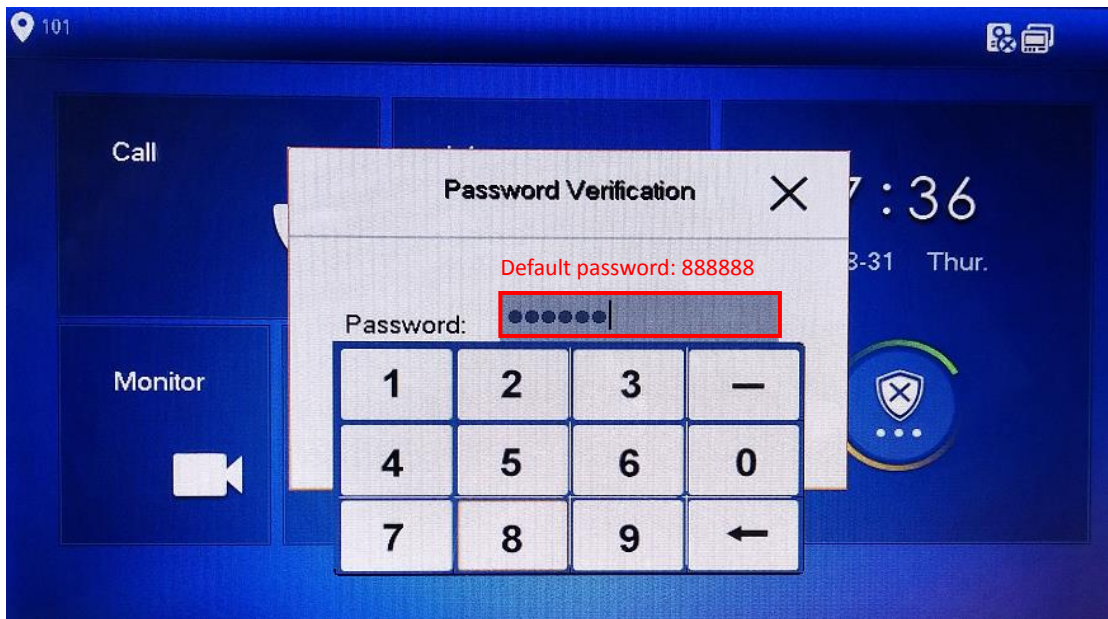

Step 4   Reboot the device.

1.2 How to setup the master 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 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.

Check the version to make sure it upgraded correctly
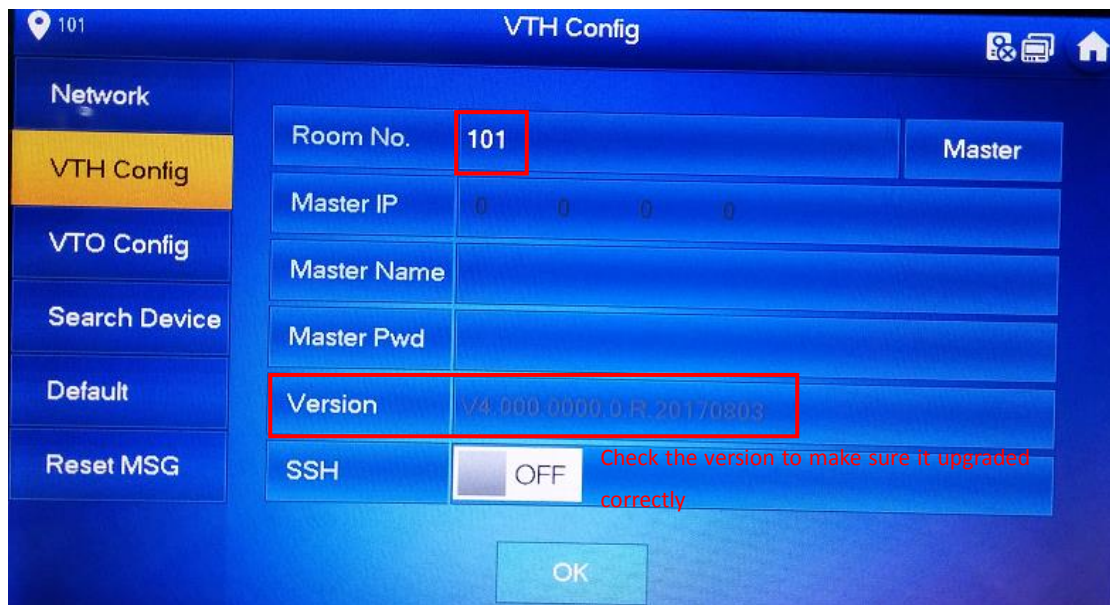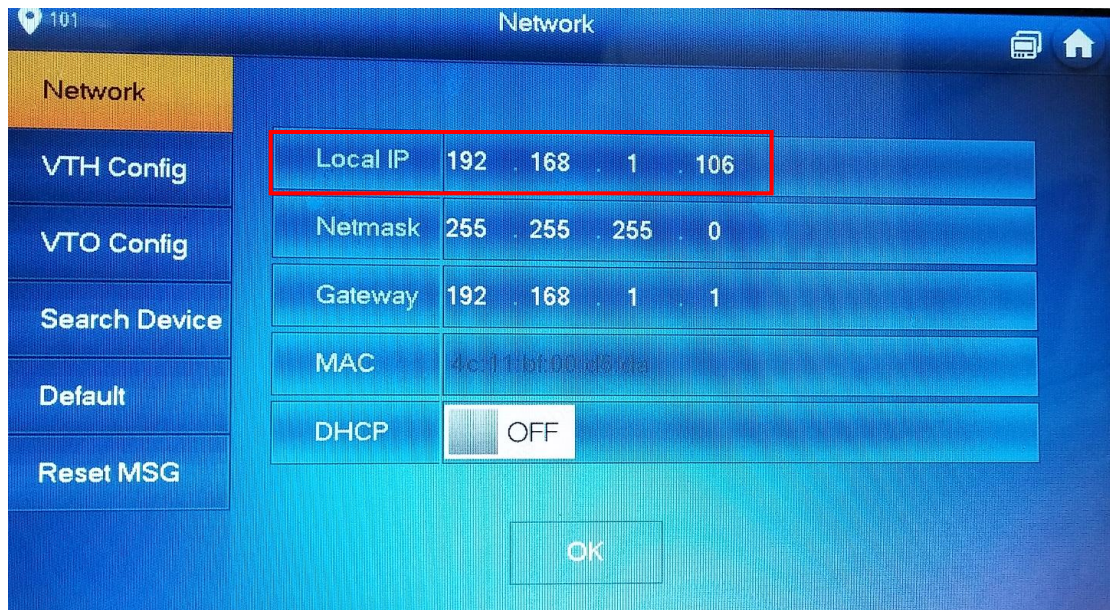
Step 3 Add VTO1220BW in 'VTO Config', setup the IP address, username and password of VTO, and enable it. The username and password are the VTO web interface login 'Username' and 'Password'.
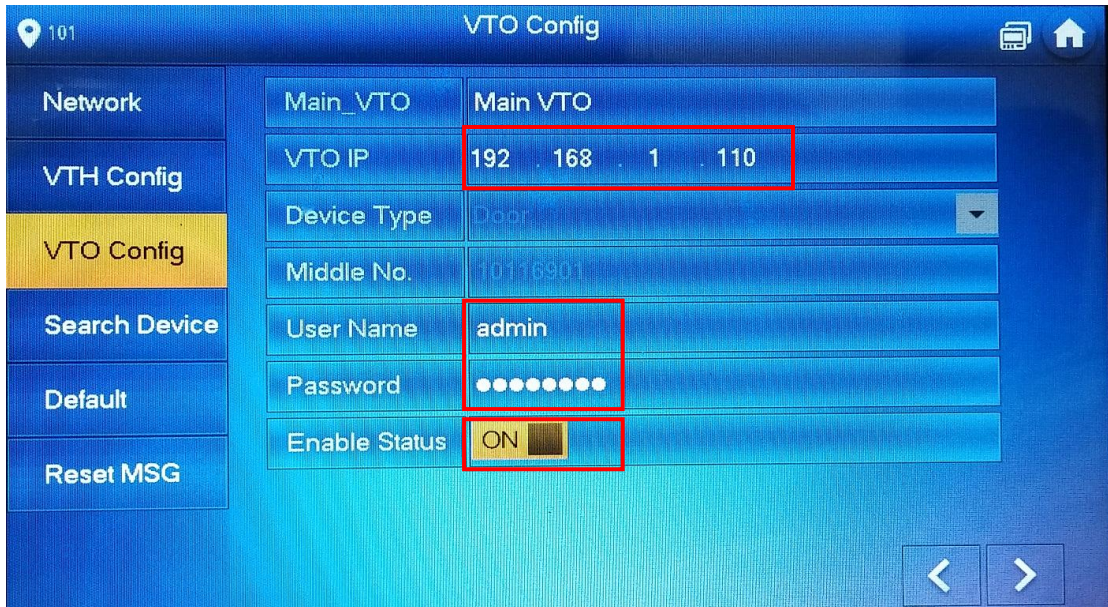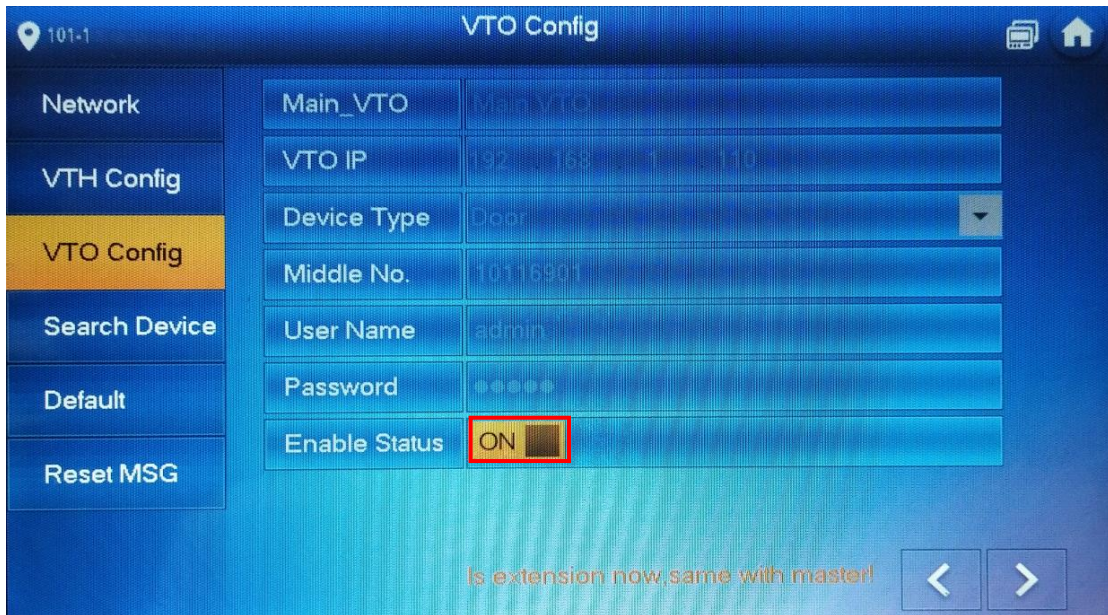
1.3 How to setup the extension VTH

    Step 1 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.
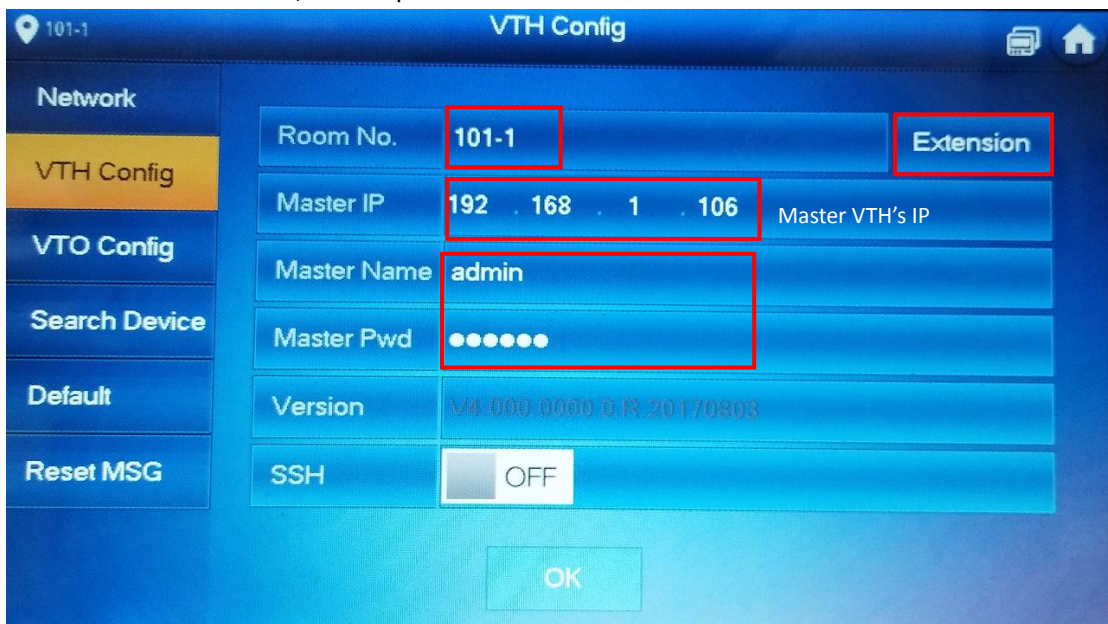
    Step 2 After setting up, the VTO information of master VTH has been synchronized to extension VTH, and then enable it.

1.4 Check result

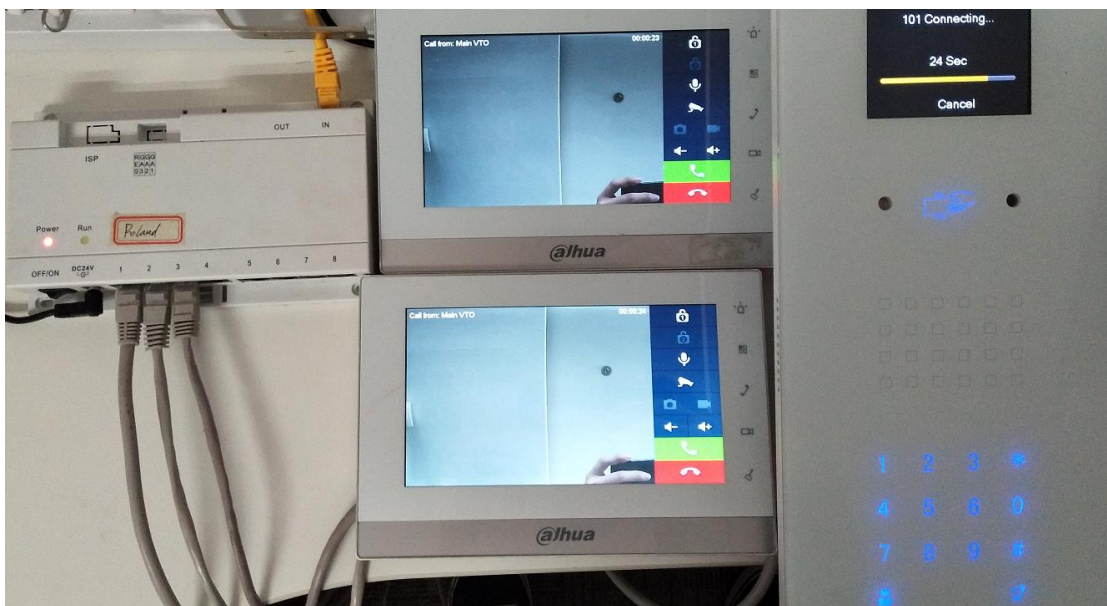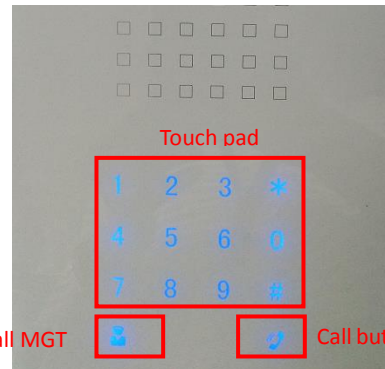After the above operation steps, if the top right corner of VTH shows an icon with 'X'

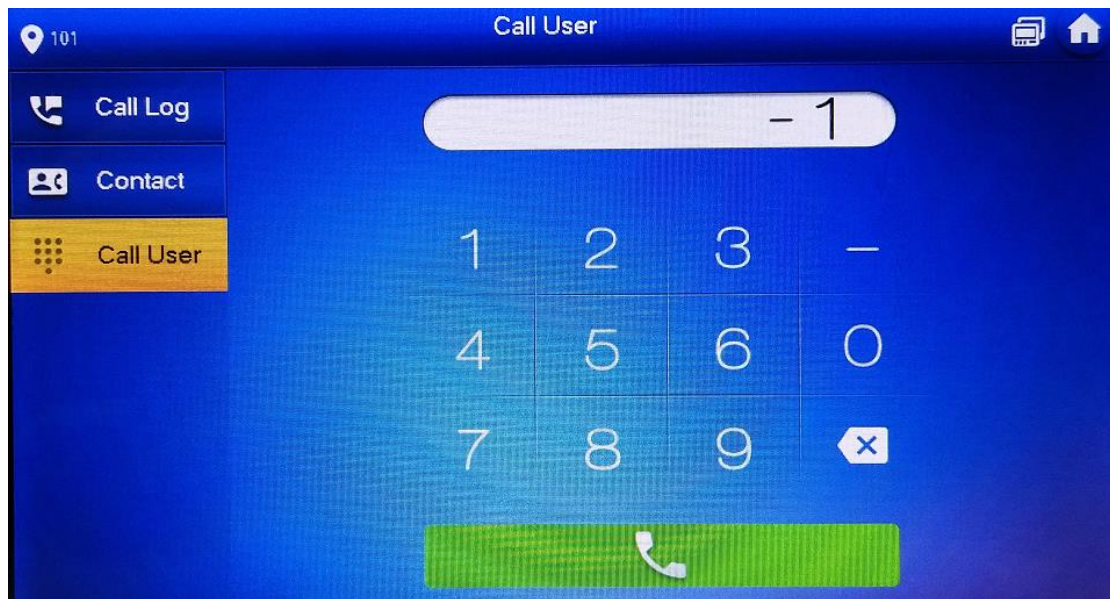, means configuration failed. If shows, it means successfully.

Input the room number '101' on the touch pad of VTO1220BW and press the call button.
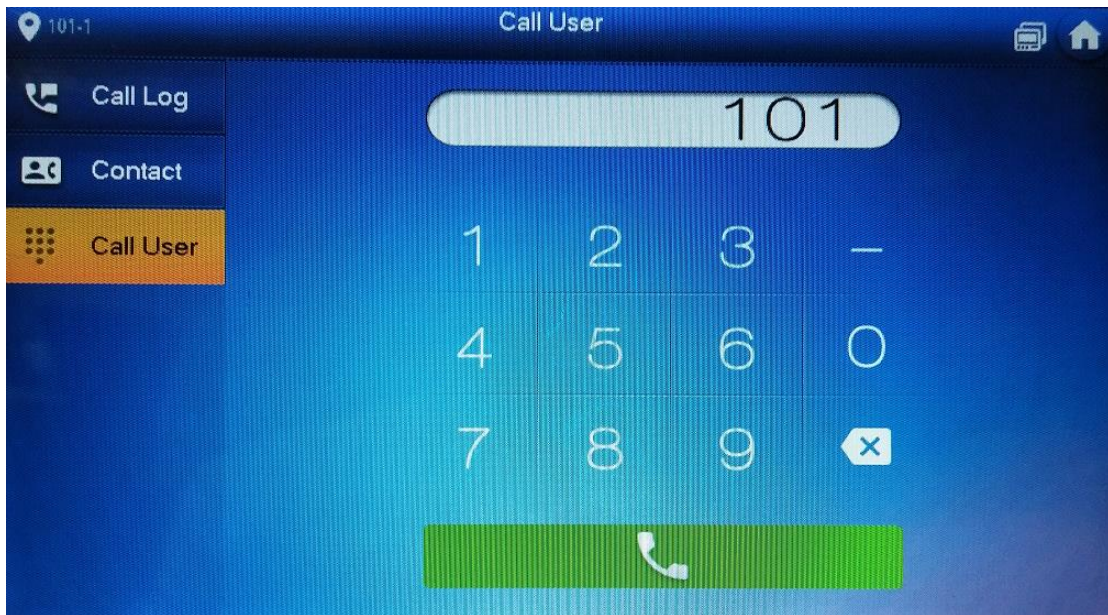
➢ **Master VTH calls extension VTH**

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.

3. 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.

3.1 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.
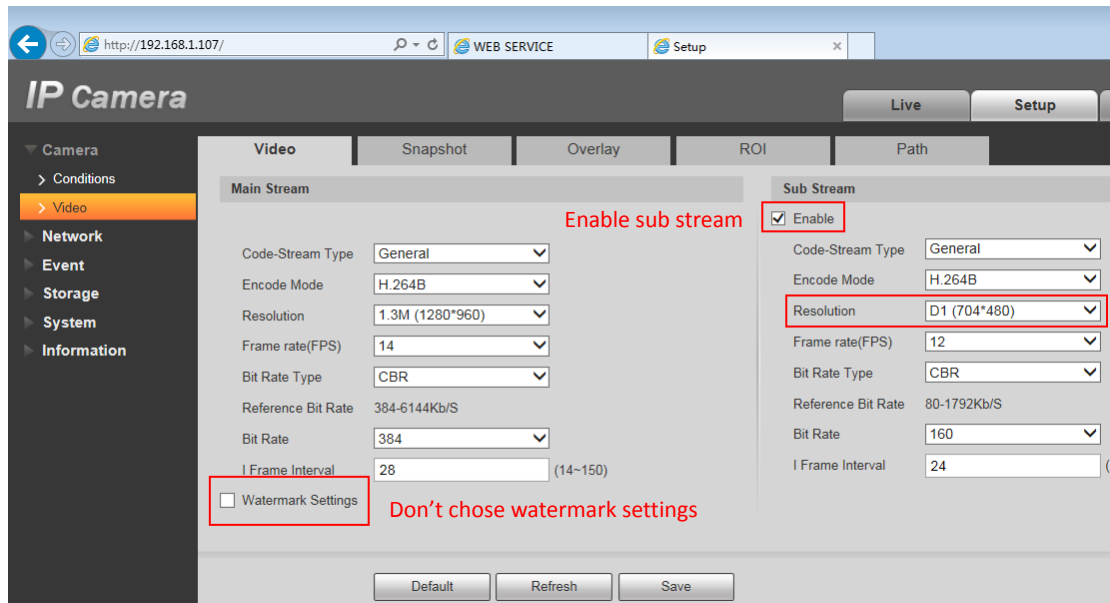
Step 2 Login in VTO web interface http://192.168.1.110 , System Config -> IPC Information, click 'Modify' icon to add IPC.

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

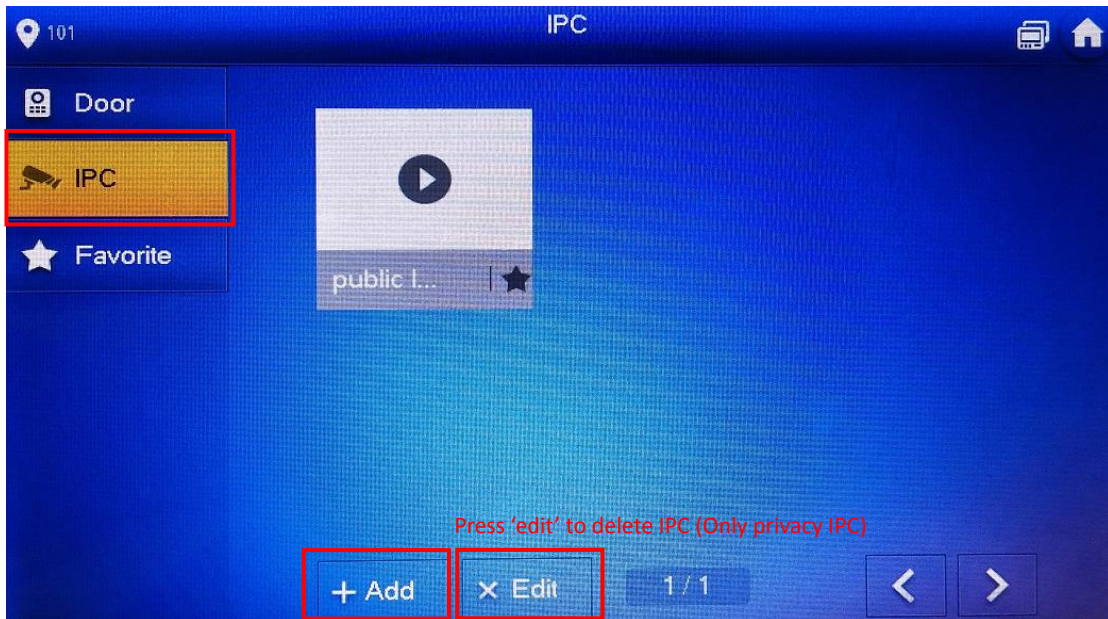Step 4 Select the protocol: Local for Dahua IPC and Onvif for Onvif IPC. Other information keep default.
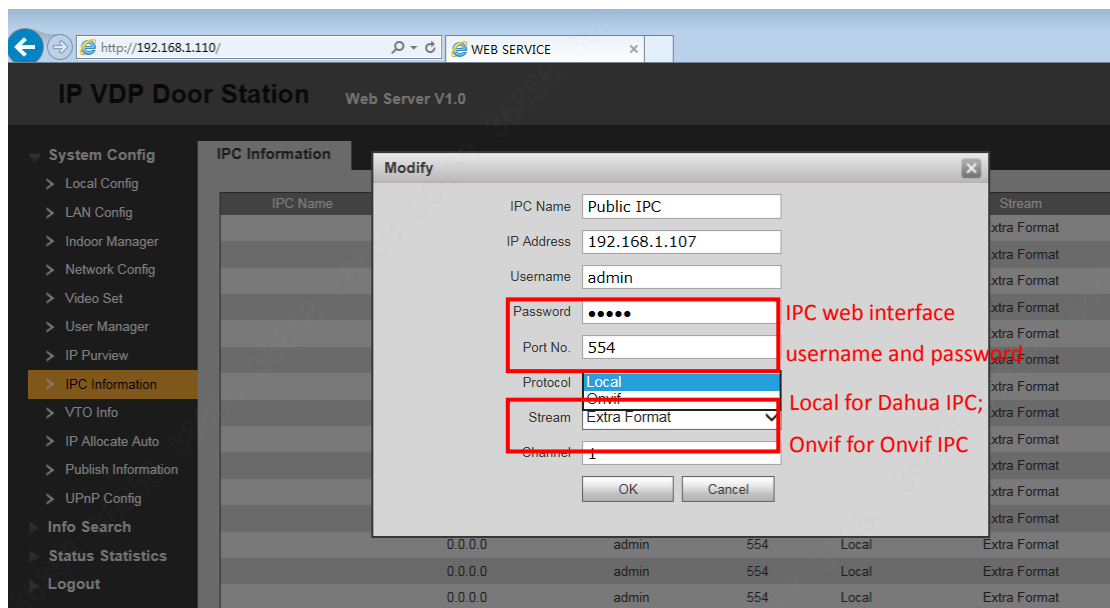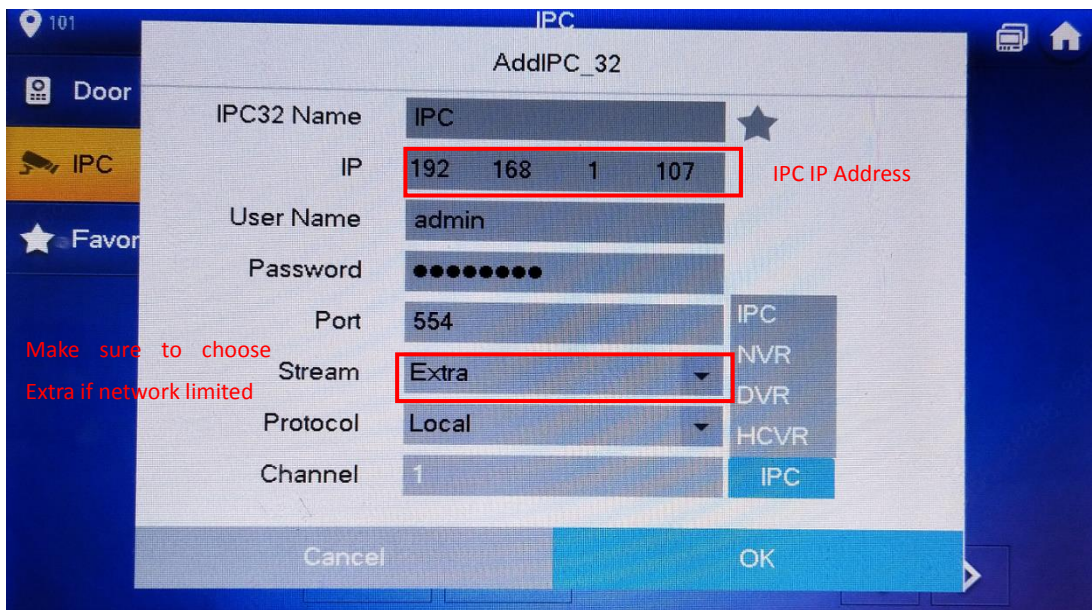

3.2 How to add privacy IPC

You can add IPC directly, and you can add IPC on one certain channel of NVR/ DVR/HCVR as well.
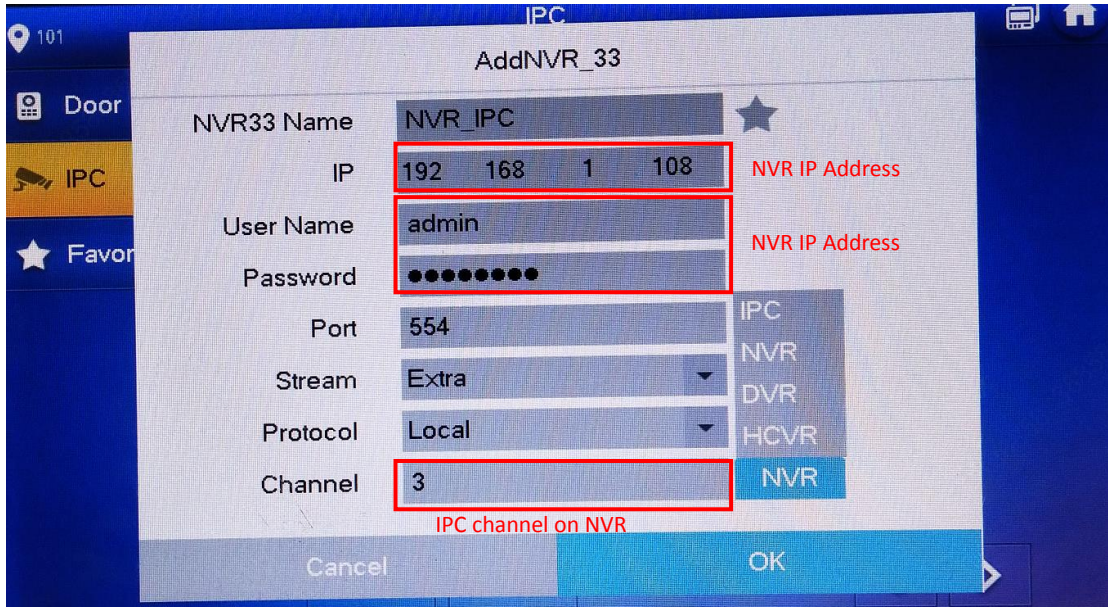
Step 1 Press 'Monitor' icon, select 'IPC'.

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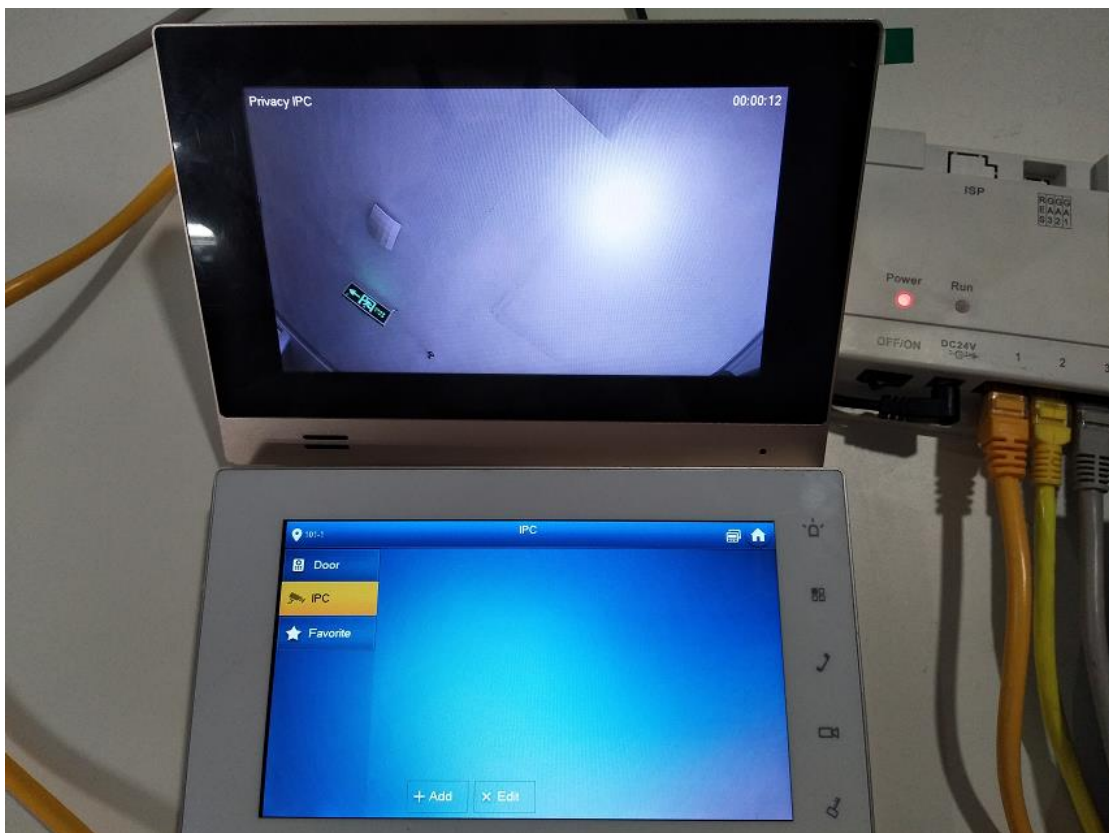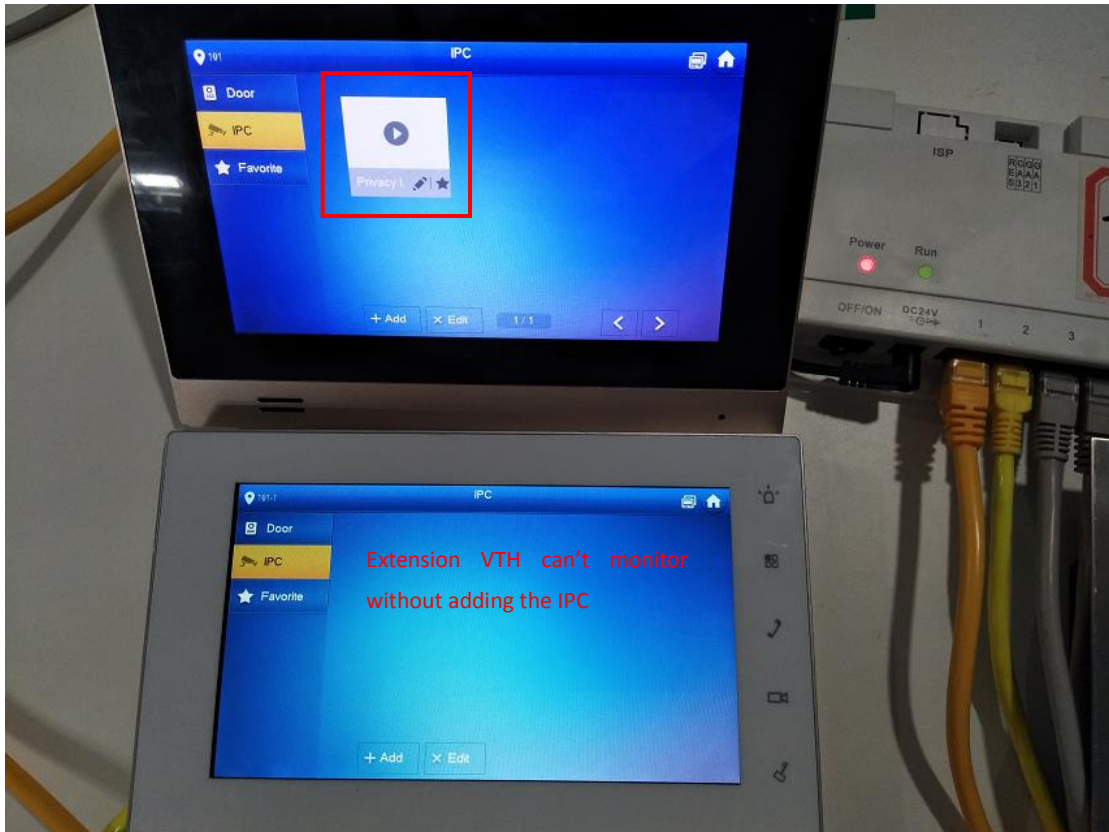

Add IPC which is connected on NVR:

3.3 Check result

Press 'Monitor' icon, select 'IPC', then you can see all added IPC including public IPC and privacy IPC.
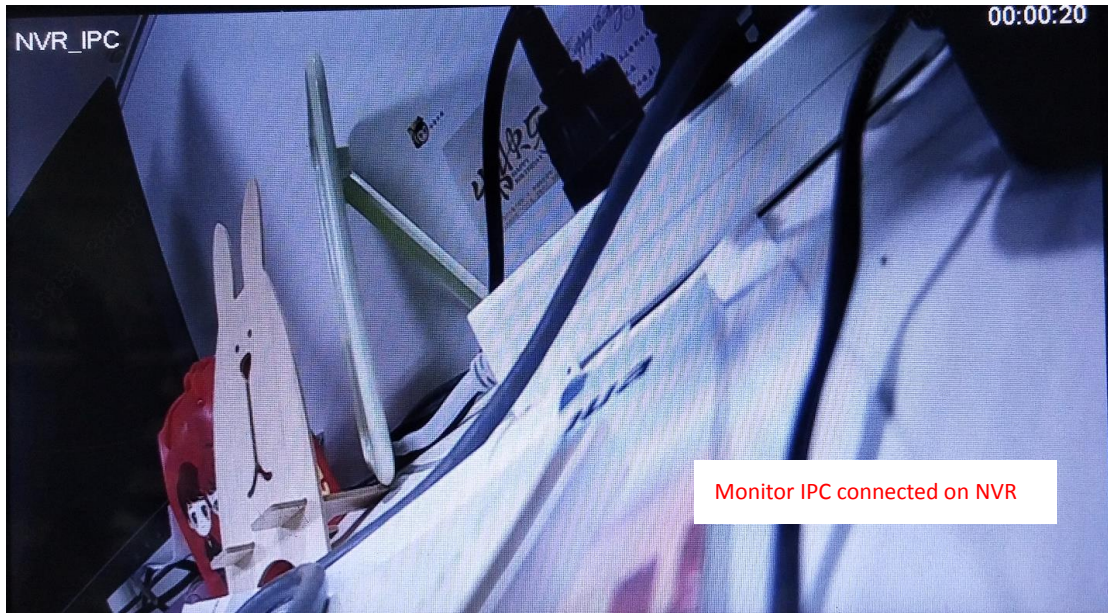
You can monitor the public IPC at master and extension VTH.

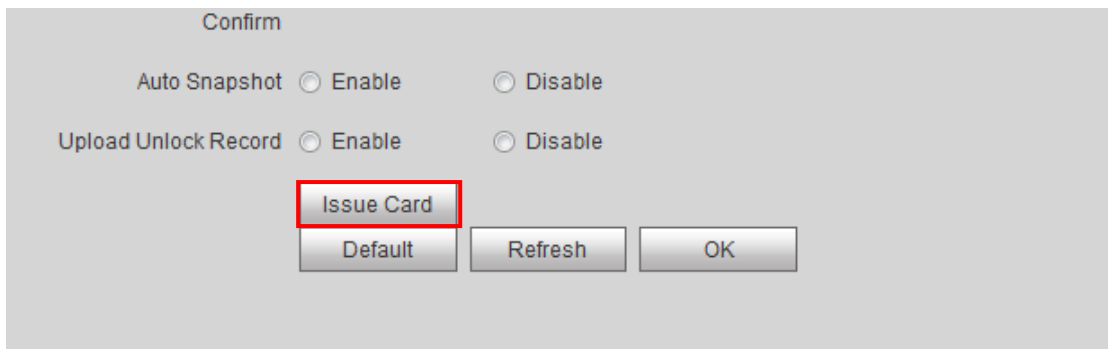You can monitor the privacy IPC only at the VTH who added it.

Monitor IPC connected on NVR

4. How to issue card

There are two ways to issue card: issue card on VTO web interface and issue card locally.
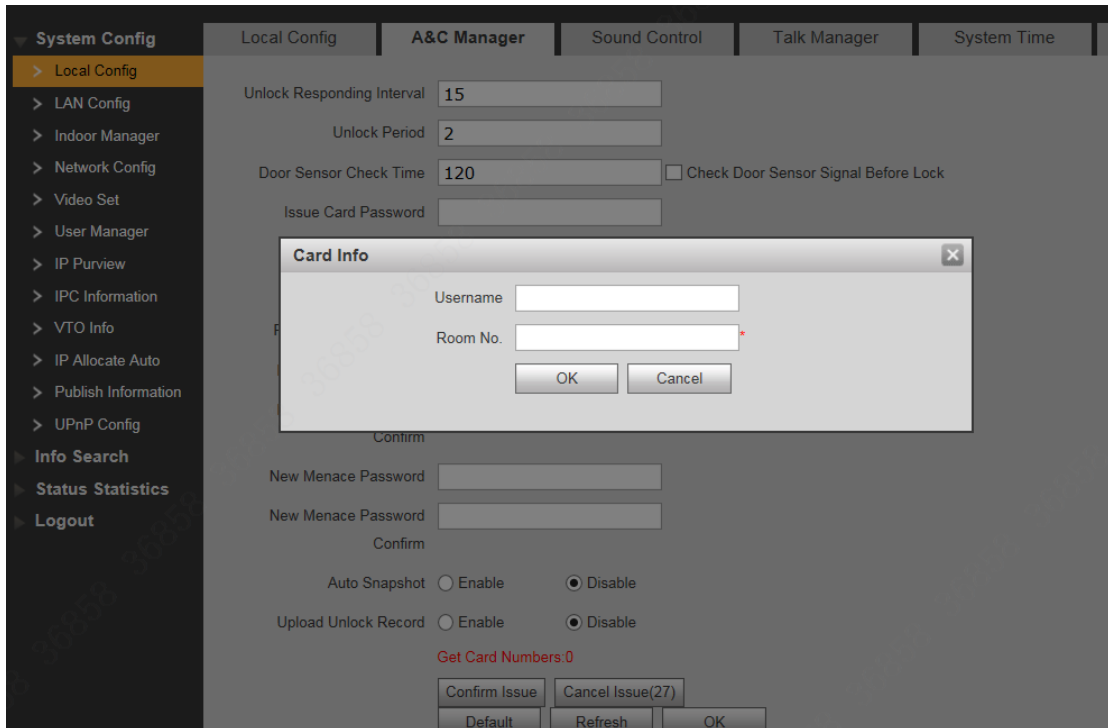
4.1 How to issue card on VTO web interface

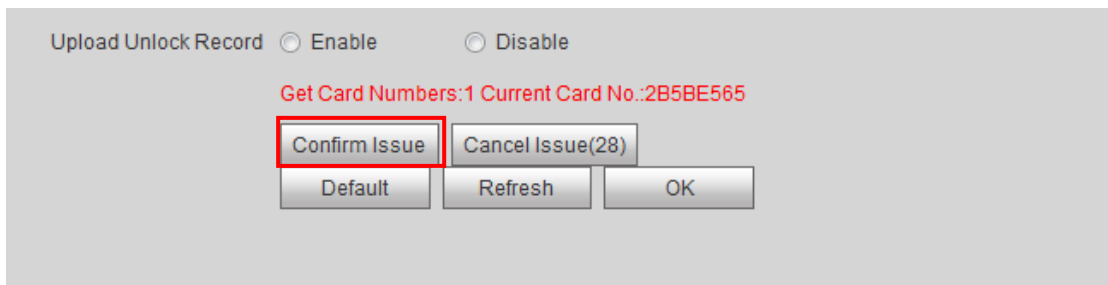Step 1 Check system config **->** Local Config **->** A&C Manager, click on 'Issue Card'.

Step 2: Brush your card on VTO1220BW card reading area.

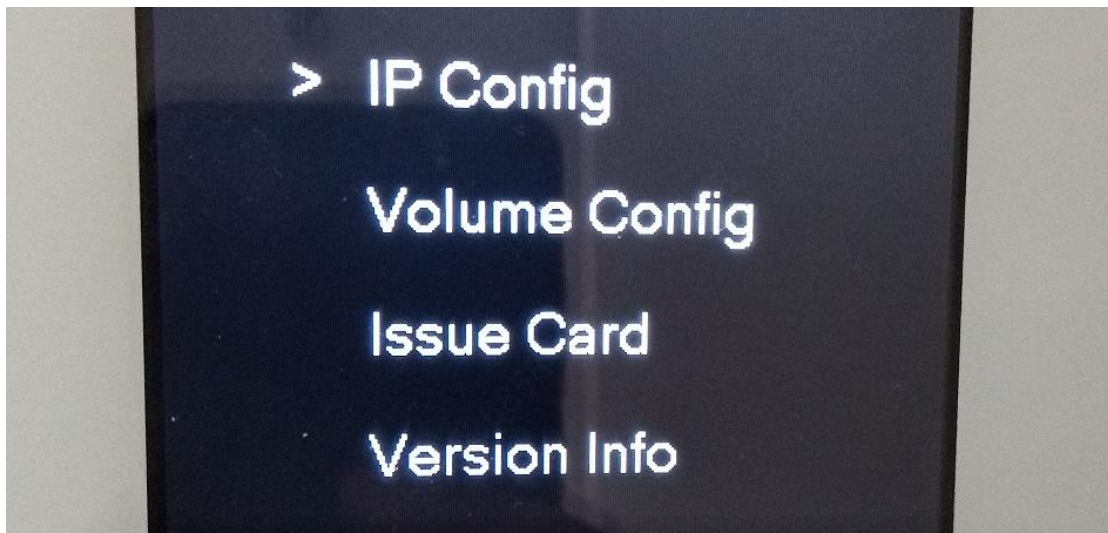Step 3: There will be a pop-up at the top of VTO web interface. Fill in the "Username "and "Room number".

Step 4: Click on Confirm Issue.
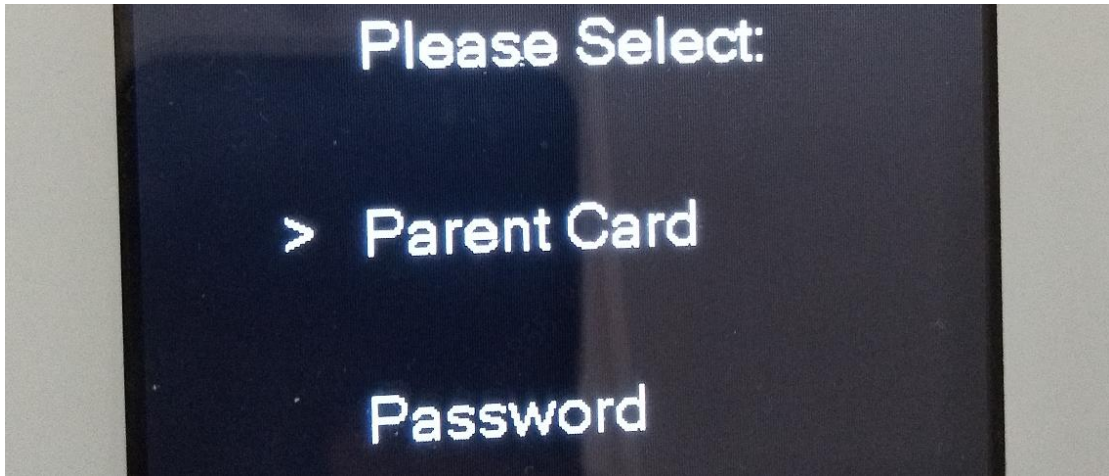

4.2 Locally issue card

Step 1 Press '*' on the VTO touch pad, and input project password(default psw is 888888), then press '#' to enter the main menu.
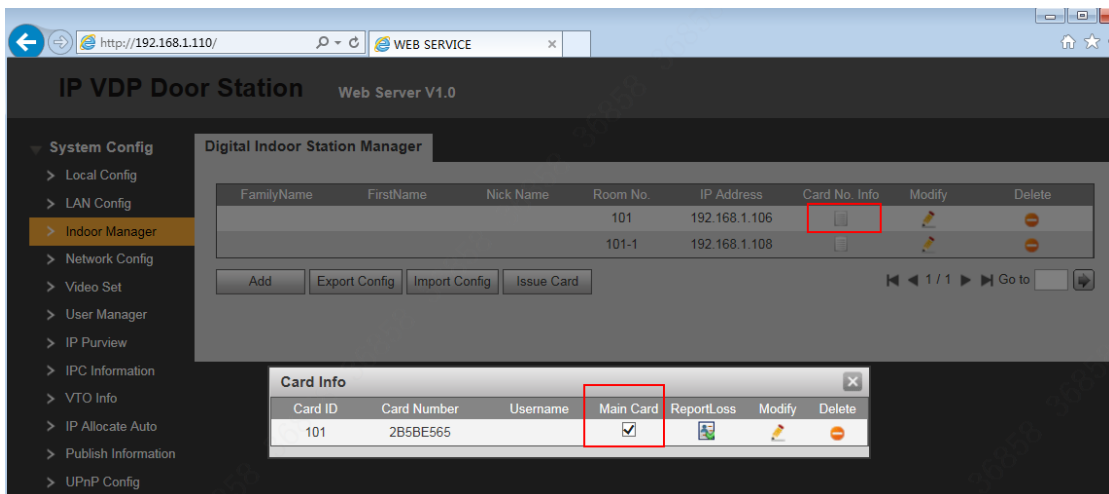
Step 2 Press 2 and 8 to move the cursor, select 'Issue Card'. There are two types of verification ways to issue card: 'Parent Card' and 'Password'.

> ➢ **Parent Card verification:**

(1)   Firstly, you need to issue a card on VTO web interface as the above steps and set it as parent card. VTO web interface, check Indoor Manager, click 'Card NO Info', set the card as 'Main Card'.

(2)   Select 'Parent Card', then Brush the parent card.
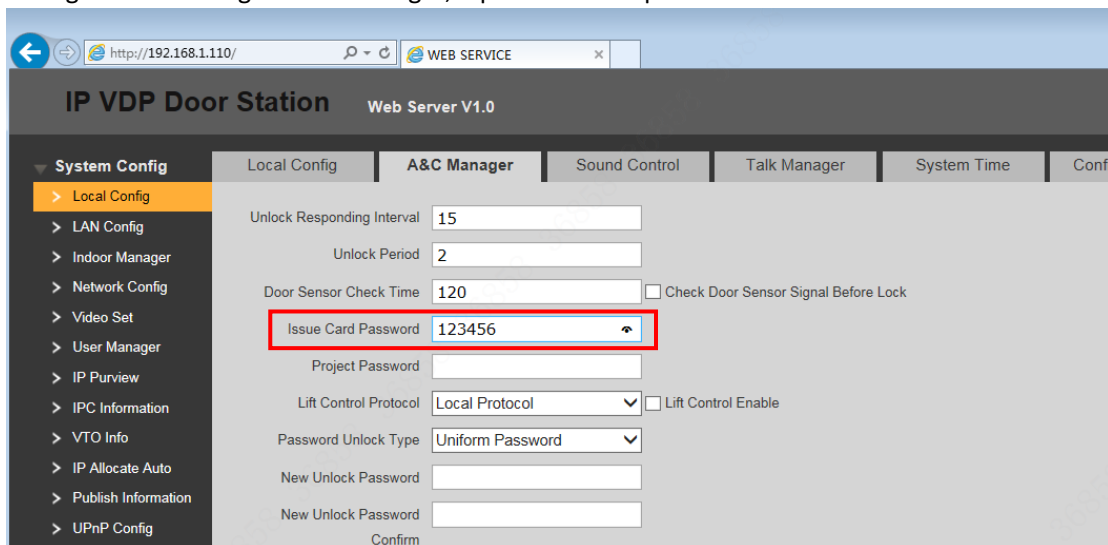

(3)   Send room number.

(4) Brush the son card (the new mifare card).
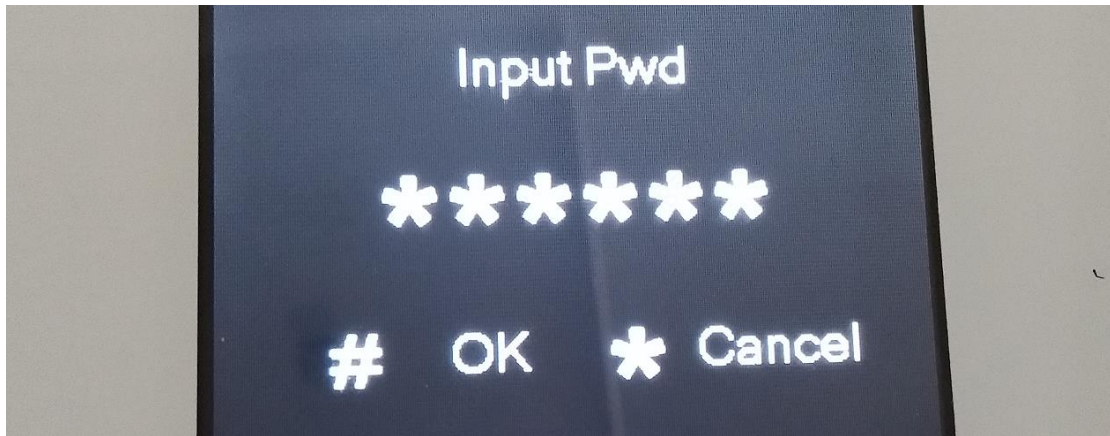

(5) Issue card successfully.

➢ **Password verification:**

(1) Firstly, you need to set the issue card password on VTO web interface. Check System Config -> Local Config -> A&C Manager, input issue card password and click 'OK' to save.

(2) Select 'Password', and input the issue card password.

(3) Send room number.

(4) Brush the son card (the new mifare card).

(5) Issue card successfully.

4.3 Check result

Swipe your card in the card area to open the door.

## 5. How to configure: SmartPSS

5.1 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 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 3 Click 'OK' to save and reboot the device.
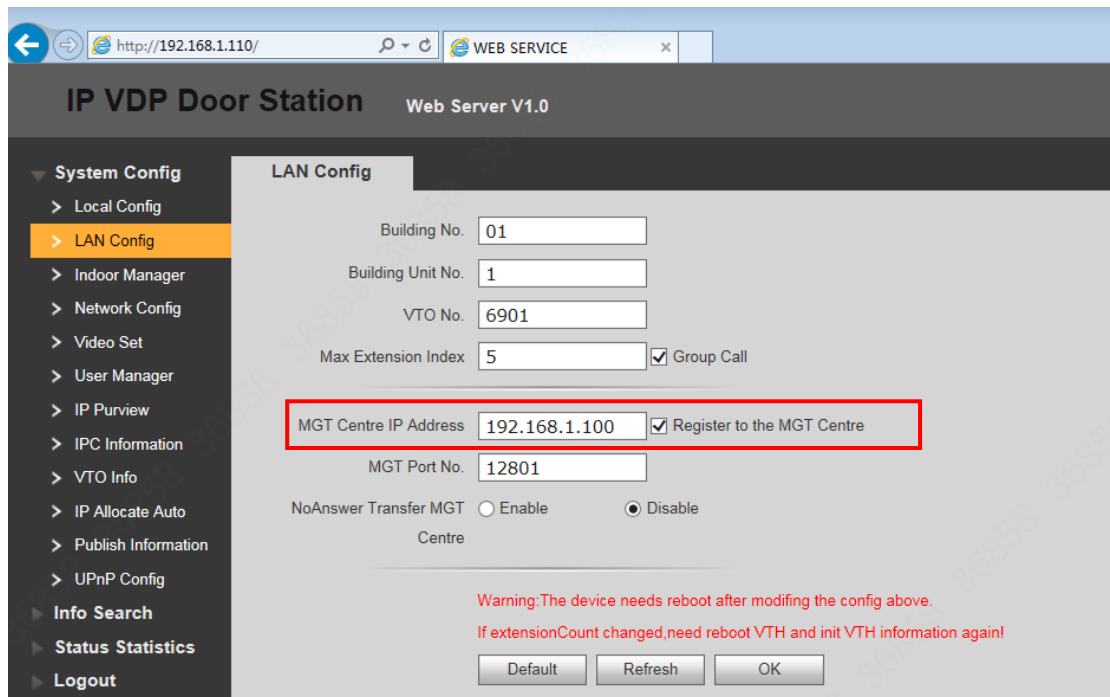
Step 4 Add device on SmartPSS. Click 'Auto Search' to search the devices, and select the
VTO and VTH to add.
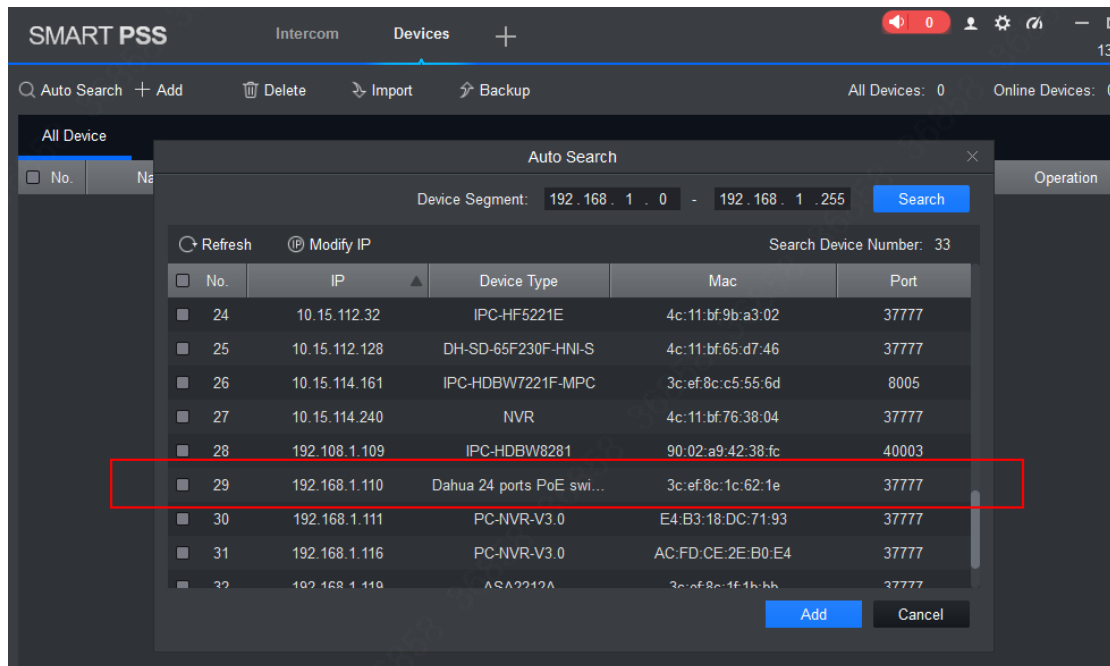
Note: In cybersecurity baseline, you must input the correct account and password. For VTH,
account is 'admin', password is projecting password (default 888888).

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

5.2 Check result

> **MGT center Calls VTH:**

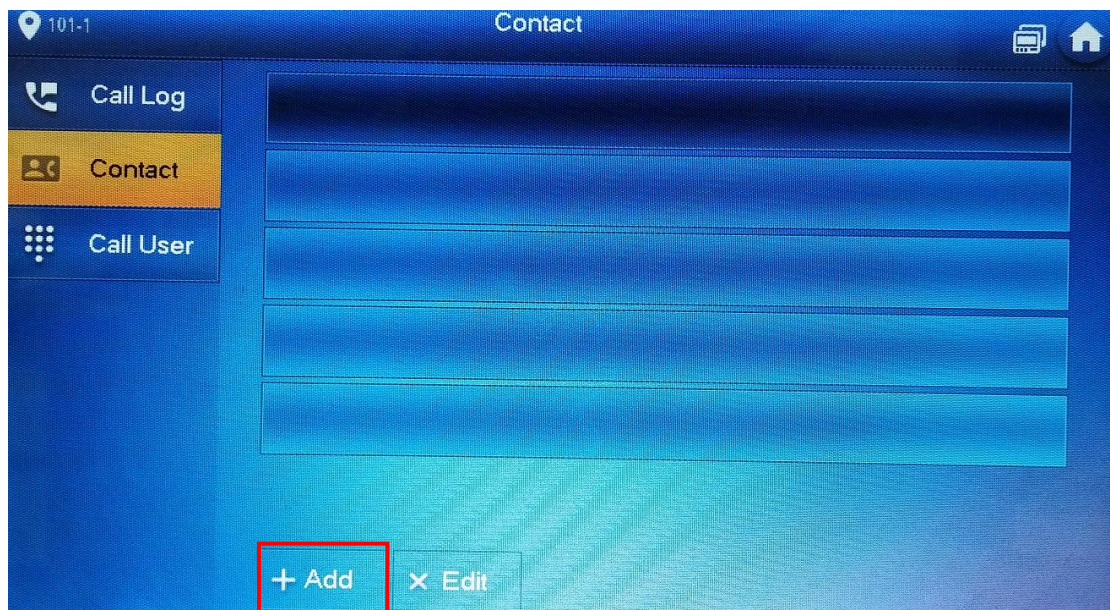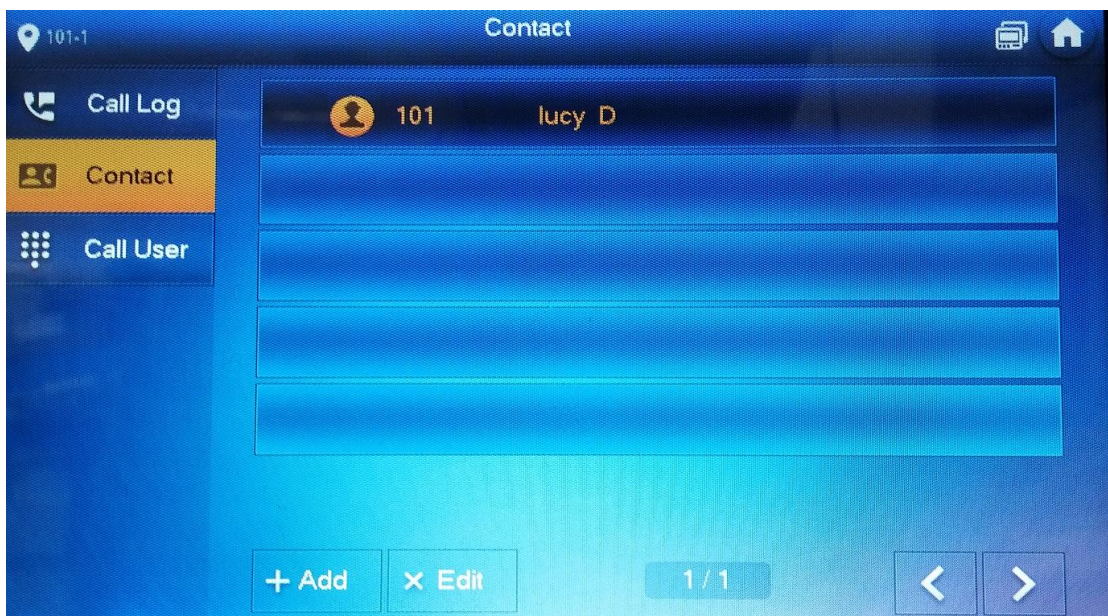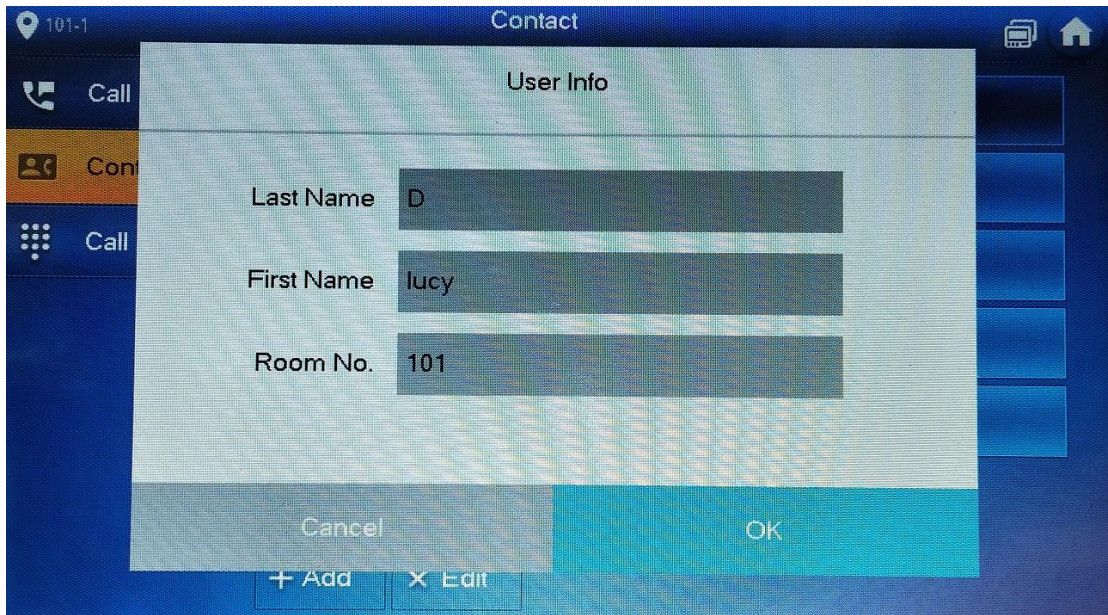> **VTH Calls MGT center:**
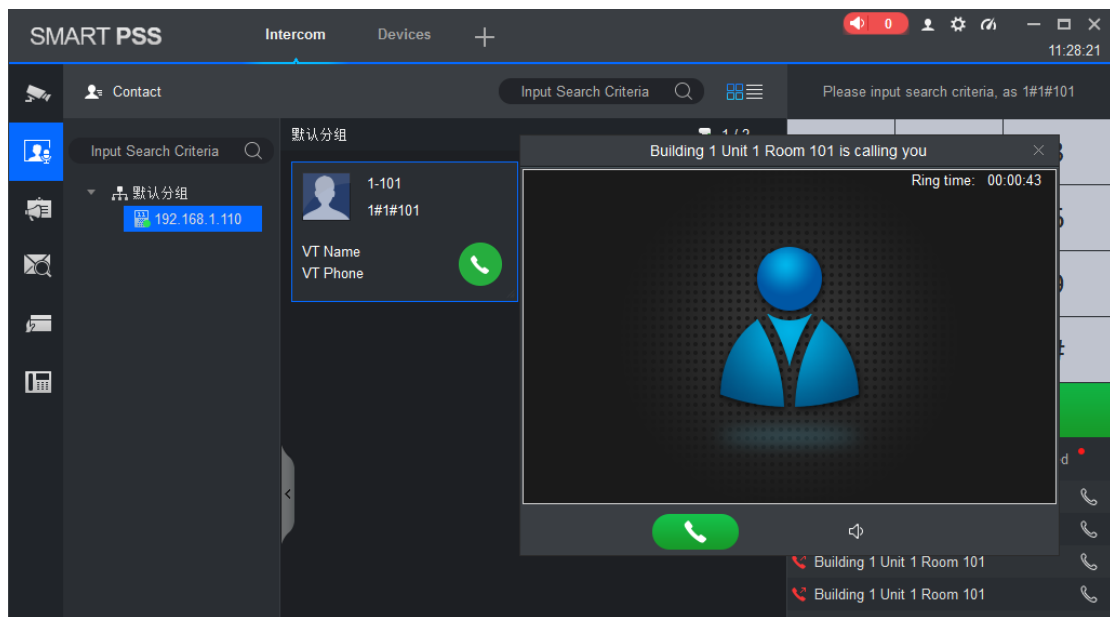
6. How to add address book in VTH

Step 1 Press 'Call' button, check 'Contact' -> Add, input the contact information.

Step 2 Call the contact. Press the item of your contact, click the ☎ button to send the call.

Contact

101-1

Call Log

Contact

Call User

101   lucy D

+ Add   × Edit   1 / 1   <   >

Calling: lucy D

2 5 S   lucy D

Calling...