USER MANUAL
2-Wire Video Intercom System

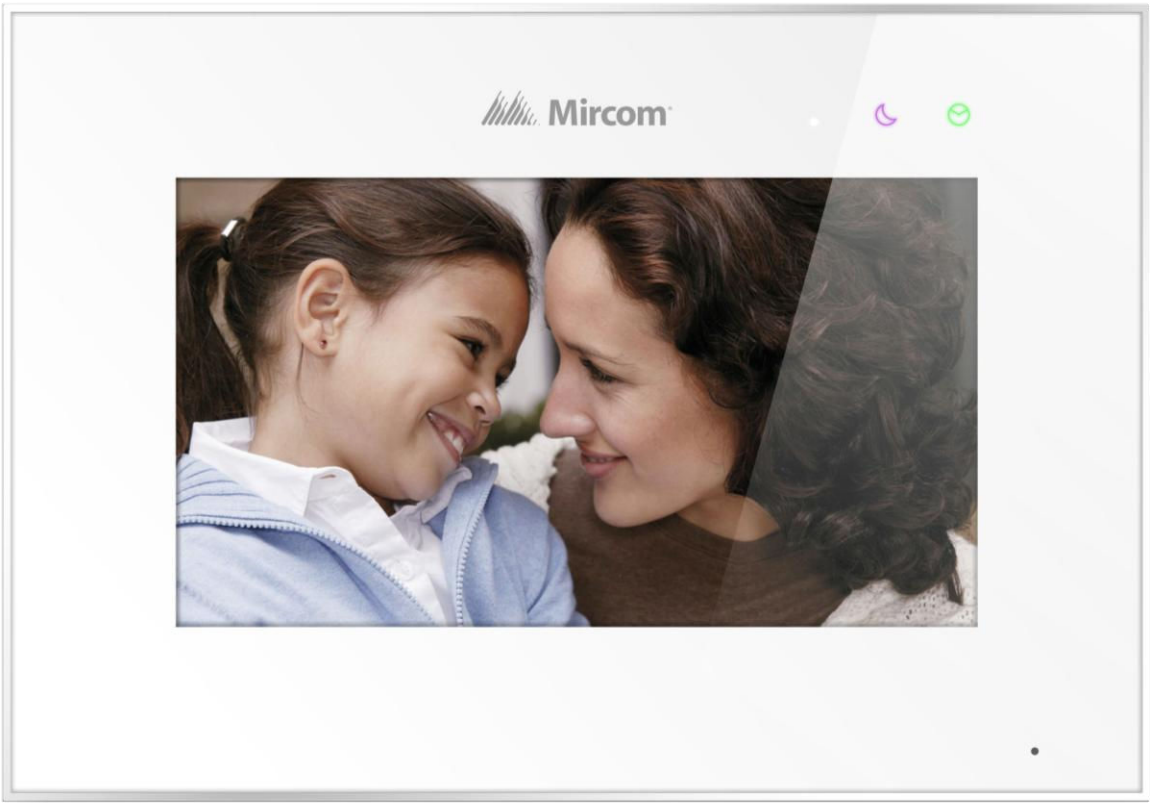
7” Touch Screen Monitor
VX-M7

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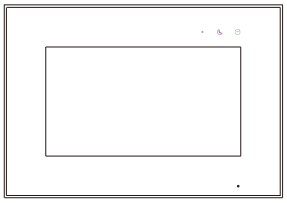


1.Features And Functions

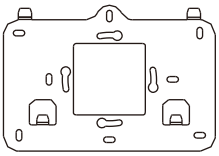
- Glass surface panel,7 inch IPS capacitive touch screen monitor
- 1080P high resolutions image
- LED indicators for events and status
- Inner flash support 100 images and 10 video recordings
- Expanded SD card for more image/video storage,up to 128G can store 5000 records
- Auto & manual video/picture recording
- Selectable 16 melodies for call reception
- Support 1 custom ringtone and 1 custom background
- Do not disturb function
- Graphic interface for intuitive operation, Linux OS
- Support Alexa voice control
- Support remote Image or video playback with app
- ONVIF IP Camera /Wi-Fi camera compatibility
- Compatible with 3rd party SIP device with converter
- Max 3 slave monitors within one family
- Support intercom between two different families
- Support broadcast intercom within one family
- No polarity two wire connection
- BUS power supply

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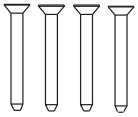
2.Packing Contents



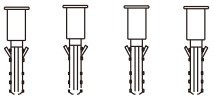
Main body



Wall bracket

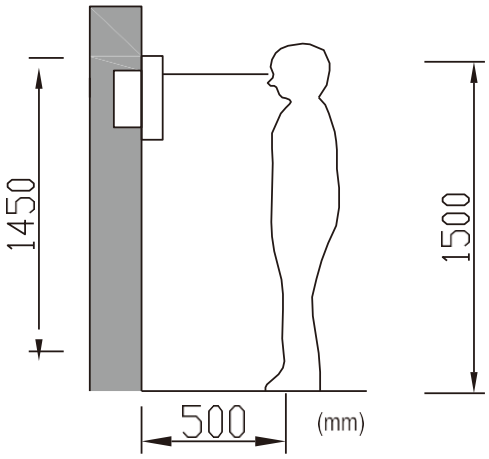


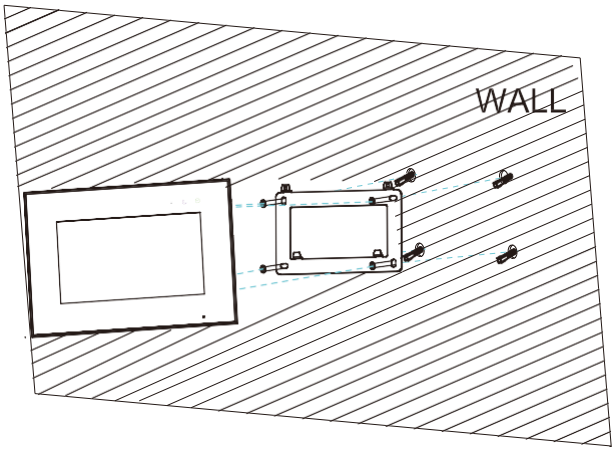
KA M3.5*35mm
Mounting screw



M4*29mm
Plastic expansion pipe

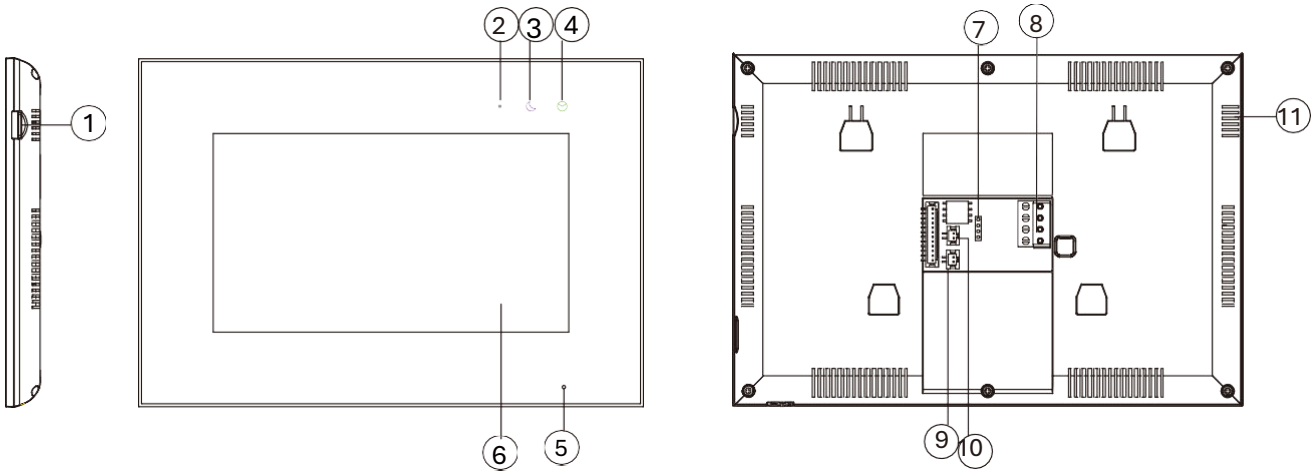
3.Installation





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4. Name and Function of Each Part



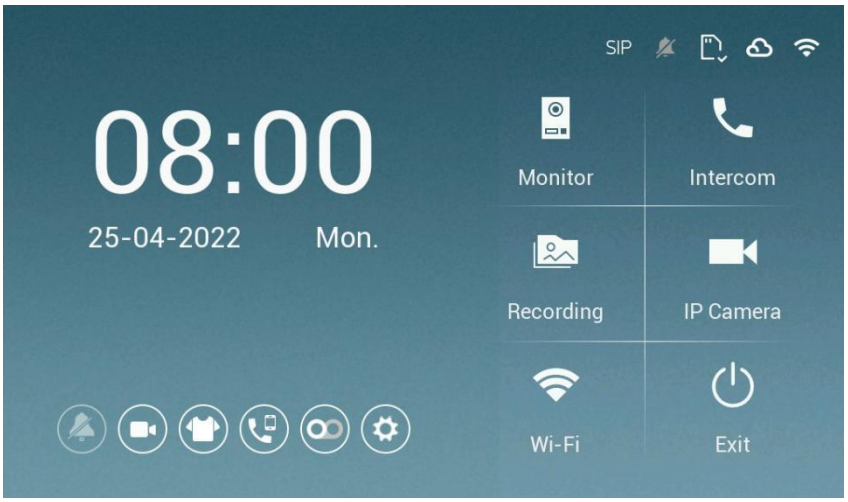
No.	Part Name	Description
1	MicroSD Card Slot	Slot for MicroSD card
2	Power Indicator	White LED indicates power is on
3	Do Not Disturb Indicator	Purple LED indicates Do Not Disturb mode is enabled
4	Message Indicator	Green LED indicates a new image or video message is available
5	Microphone	Built-in microphone
6	Display	7-inch TFT LCD touchscreen
7	Programming Port	Used for firmware programming and service
8	Bus Connection Terminal	BUS_IN and BUS_OUT connections for system wiring
9	Doorbell Input	Connection for an external doorbell button
10	External Bell/Buzzer Output	Connection for an external bell or buzzer
11	Speaker	Built-in loudspeaker

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5. Operation Description

5.1 Main Screen

Touch the screen while in standby mode to display the Main Screen.



Tap an icon on the Main Screen to access its corresponding function.

System status indicators are displayed in the upper-right corner of the screen.

※ Icon Definition

Icon Definitions

Icon	Function
Monitor	View live audio and video from an outdoor panel.
Recordings	View, save, or delete recorded images and video clips.
Intercom	Place intercom calls and view call records.
Do Not Disturb	Enable or disable Do Not Disturb mode.
Wallpaper	Change the screen background image.
Leave Message	Enable or disable the visitor message feature.
Wi-Fi Settings	Configure Wi-Fi settings, call forwarding, and application management.
IP Camera	Add, configure, and view connected IP cameras.
Screen Off	Turn off the display.
Auto	Configure automatic image capture and video recording when a call is received from an outdoor panel.
Call Forwarding	Forward calls from the indoor monitor to a phone.
Settings	Configure monitor and outdoor panel settings.

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5.2 Monitor Function

When you tap the Monitor icon on the Main Screen,

The system enters Monitor mode and displays live video from the selected outdoor panel.



Icon Definitions

Icon	Function
	Capture an image
	Record a video
	Adjust audio volume during an active conversation (not available during monitoring)
	Switch between outdoor panels
	Start or answer a call
	Select an IP camera channel
	Unlock the door
	Activate the automatic door operator
	Return to the Main Screen

1. The indoor monitor can store up to **100 images** and **10 video recordings** without a MicroSD card.
2. Depending on the system settings, the monitor can automatically capture an image or record a video when a call is received from an outdoor panel.
3. When the **Record Video** button is pressed, a 15-second video recording is created. Recording cannot be stopped until the recording is complete or the monitor screen is exited.
4. During monitoring, the volume control is disabled. Volume can only be adjusted during an active call.
5. The indoor monitor supports up to **4 outdoor panel channels** and **32 IP camera channels**.
6. When the door is unlocked or the automatic door operator is activated, the corresponding status icon is displayed in the center of the screen.

5.3 WiFi function

5.3.1 Wi-Fi Config

1. From the Wi-Fi settings page, select **Wi-Fi Config**.
2. The monitor displays *"Please wait a moment"* and then shows the list of available Wi-Fi networks.
3. Select the desired Wi-Fi network and enter the password.
4. Once connected, the monitor displays the network status.





Notes

1. Tap the **Refresh** icon in the upper-right corner to refresh the Wi-Fi network list.
2. To connect to a hidden Wi-Fi network (SSID not shown in the list), tap the "+" icon in the upper-right corner and manually enter the SSID and password.
3. The indoor monitor supports **2.4 GHz Wi-Fi networks only**.

5.4 IP Camera Setting

5.4.1 Connecting an IP Camera to the System

There are two methods for connecting an IP camera to the system:

Method 1: Wireless Connection

1. Connect the indoor monitor to the Wi-Fi network.
2. Connect the IP camera to the same router or network.
3. Configure the IP camera to obtain an IP address automatically using DHCP, or assign a static IP address manually.
4. Once both devices are connected to the same network, the monitor can communicate with the IP camera.

Method 2: Wired Connection

1. Connect the IP camera to a network switch using a CAT5/6 cable.
2. Connect the network switch to the VX-IPC 2-Wire IP Converter.
3. Connect the VX-IPC to the 2-wire system bus.

There are two ways to configure IP addresses:

Option A: Change the IP Camera Address

Assign an IP address to the IP camera that is compatible with the existing system network.

Option B: Change the System IP Address

Modify the system IP settings to match the IP camera's network.

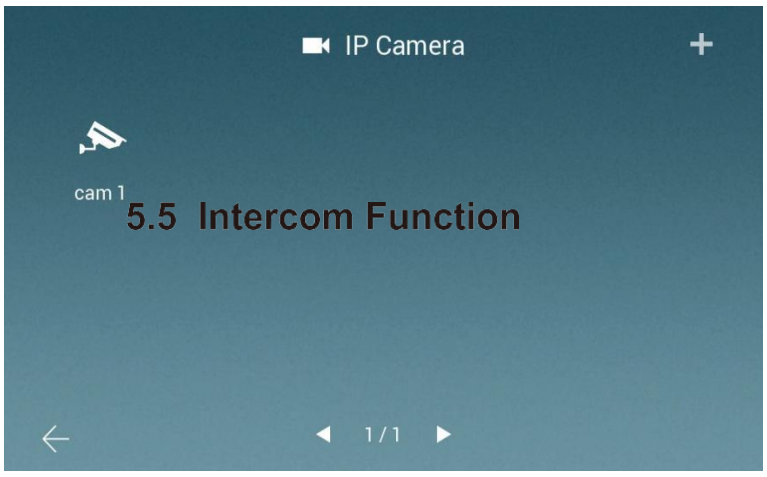
1. If the system has already been configured, first identify the current IP address range.
2. Refer to **Page 17** to modify the IP address of the master outdoor panel (Door 1).
3. Update the IP addresses of any additional outdoor panels as required.
4. When the monitor displays **"Successful"**, all outdoor panels have registered successfully.
5. Refer to **Pages 15–16** to modify the IP address of the indoor monitor.

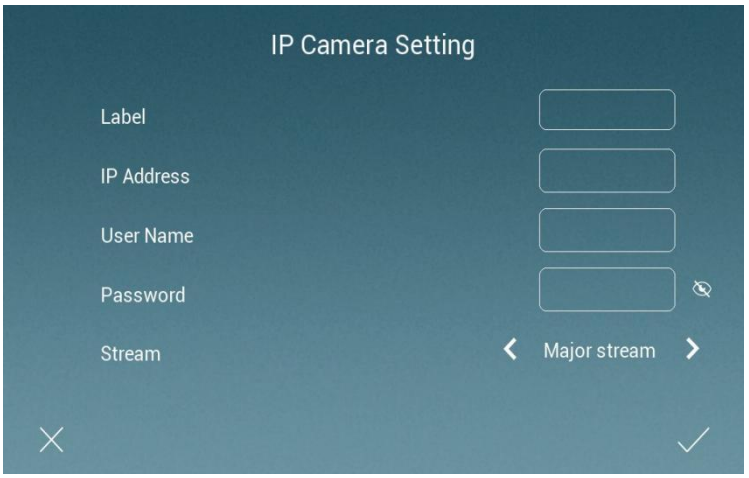
5.4.2 Adding an IP Camera

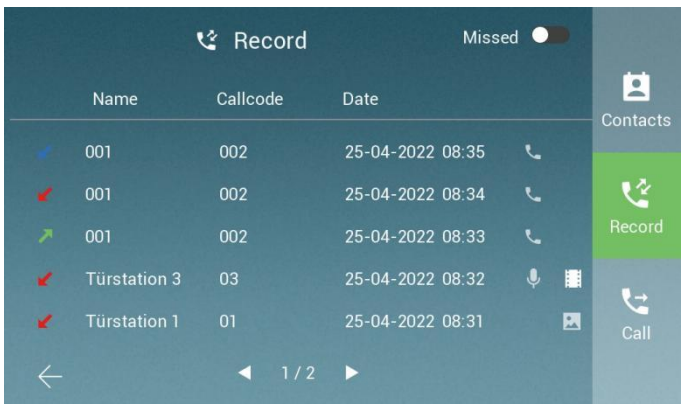
Recommended Text

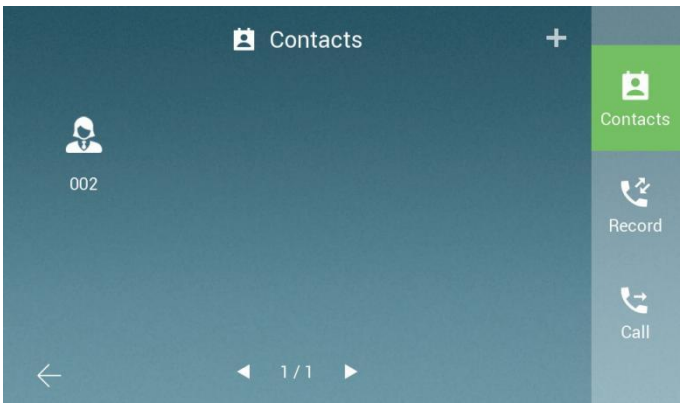
1. From the **Main Screen**, select **IP Camera**.
2. Tap the "+" icon in the upper-right corner.
3. Enter the following information:
   - Camera Name (Label)
   - IP Address
   - Username
   - Password
   - Video Stream Type (Major Stream)
4. Tap ✓ to save the settings and add the IP camera.
5. The added IP camera will appear on the **IP Camera** page.
6. Tap the camera name to view the live video stream.

Note: The indoor monitor supports IP cameras with a maximum video resolution of **1080p**. **2K** and **4K** video streams are not supported.



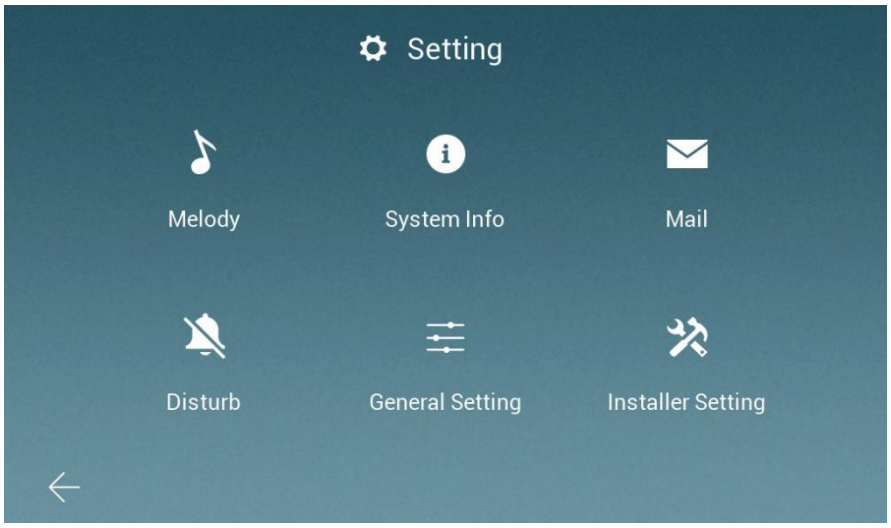






5.6 Settings

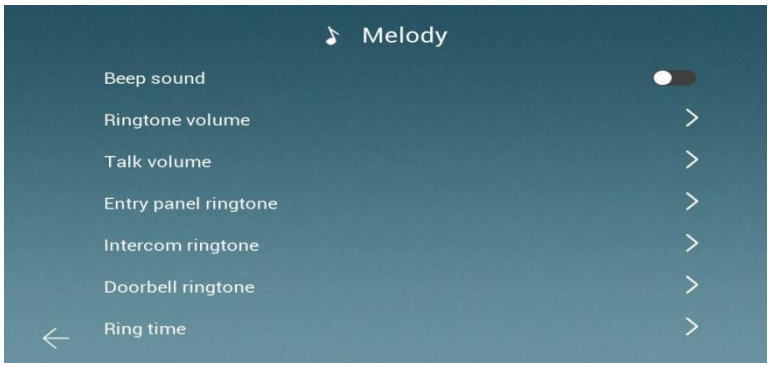
From the Main Screen, tap the Settings icon to access

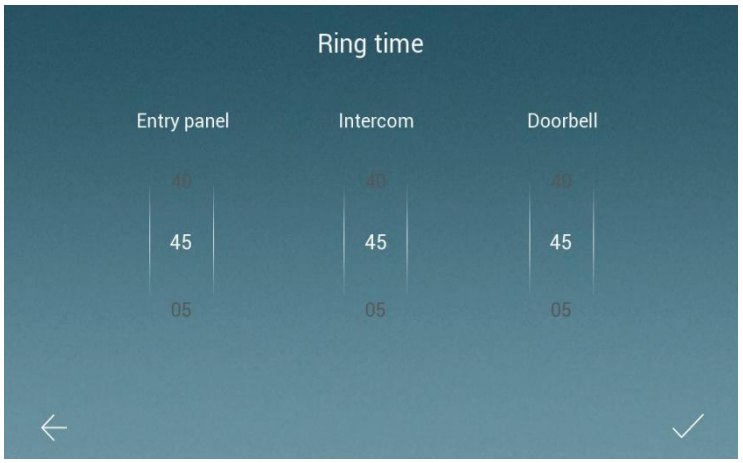


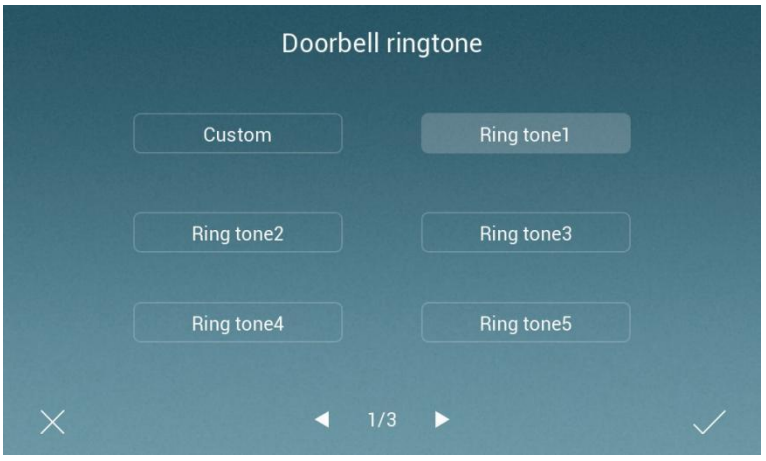
additional system settings.

5.6.1 Audio & Ringtones Settings

Select Melody from the Settings menu to configure audio preferences. You can enable or disable keypad tones, adjust ringtone and talk volume, select ringtones for the outdoor panel, intercom, and doorbell, and configure ring duration

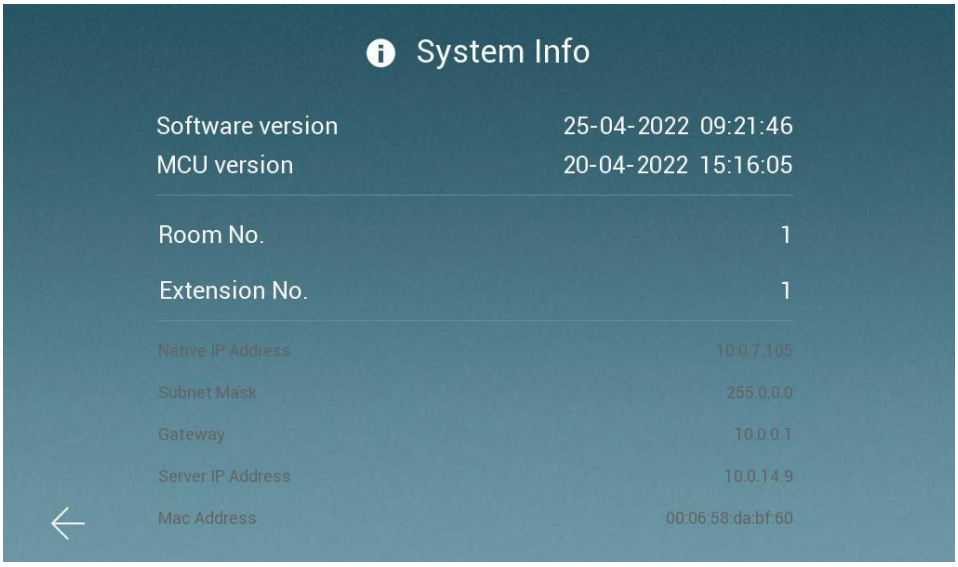






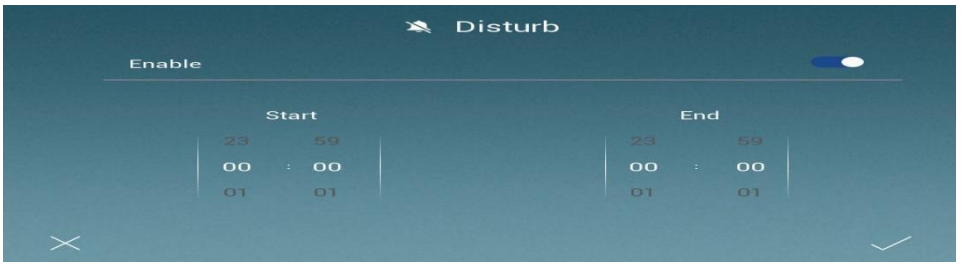
5.6.2 System Info

The System Information page displays the software version, MCU version, device address information, and network settings.



5.6.3 Do Not Disturb Function

1.Enable Do Not Disturb.
1-Set the Start Time and End Time.
2-Tap ✓ to save the settings.
During the configured schedule, the Do Not Disturb indicator will appear on the Main Screen and incoming calls will be muted

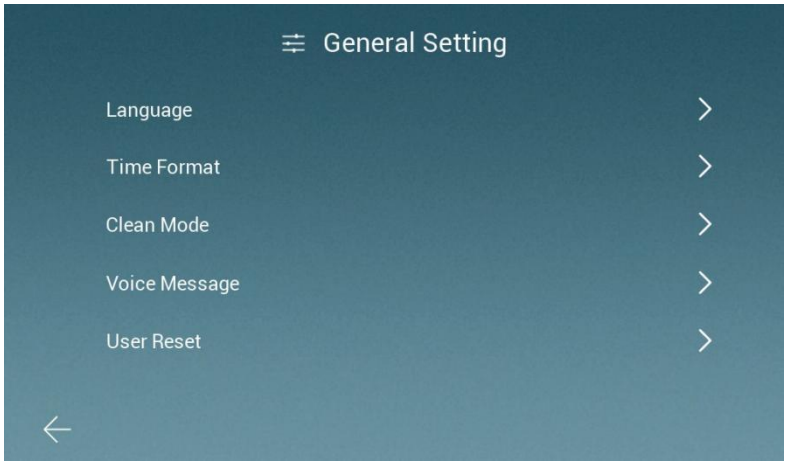


NOTE:

1. **Do Not Disturb mode can be disabled at any time from the Main Screen.**
2. If you don't open the enable button, only press the icon on the main interface lower corner will not apply the function.

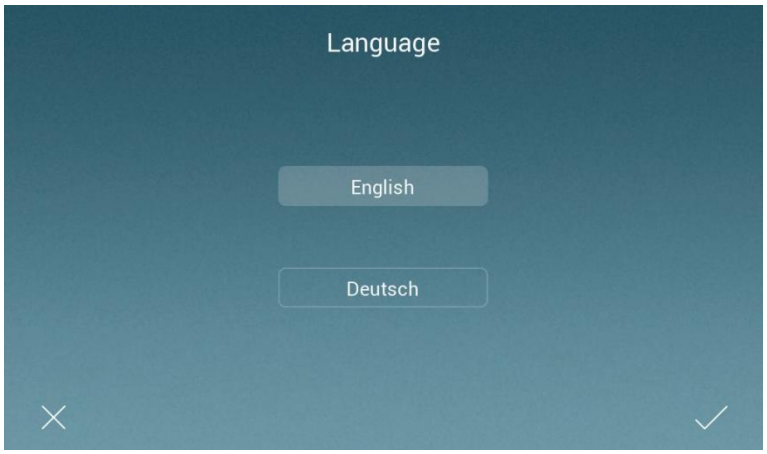
5.6.4 General Setting

The General Settings page provides additional configuration options for the indoor monitor.



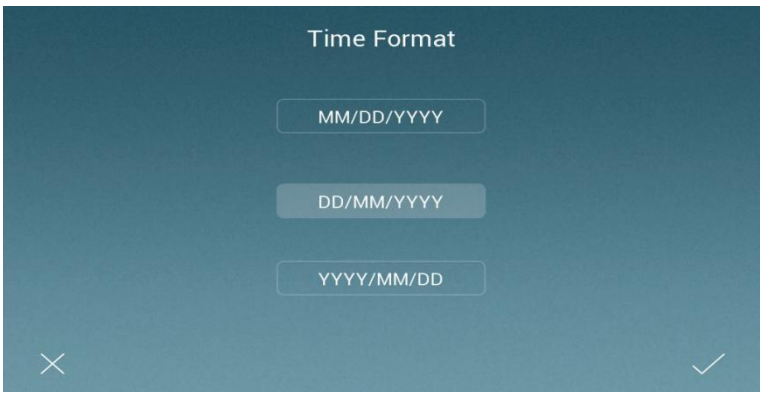
5.6.4.1 Language setting

Select Language from the General Settings menu to choose the desired display language.



5.6.4.2 Date Format

Select Date Format from the General Settings menu to choose how dates are displayed on the monitor.



Note:

Three date formats are available: MM/DD/YYYY (Month/Day/Year) , DD/MM/YYYY (Day/Month/Year) , YYYY/MM/DD (Year/Month/Day)

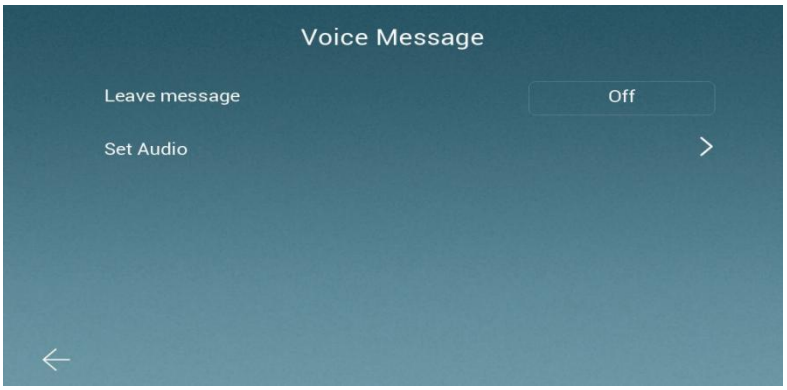
5.6.4.3 Clean Mode

Select Clean Mode from the General Settings menu, then tap Start to remove temporary files and free up storage space.



5.6.4.4 Voice Message

Select Voice Messages to configure how visitors can leave voice messages when calls are not answered.

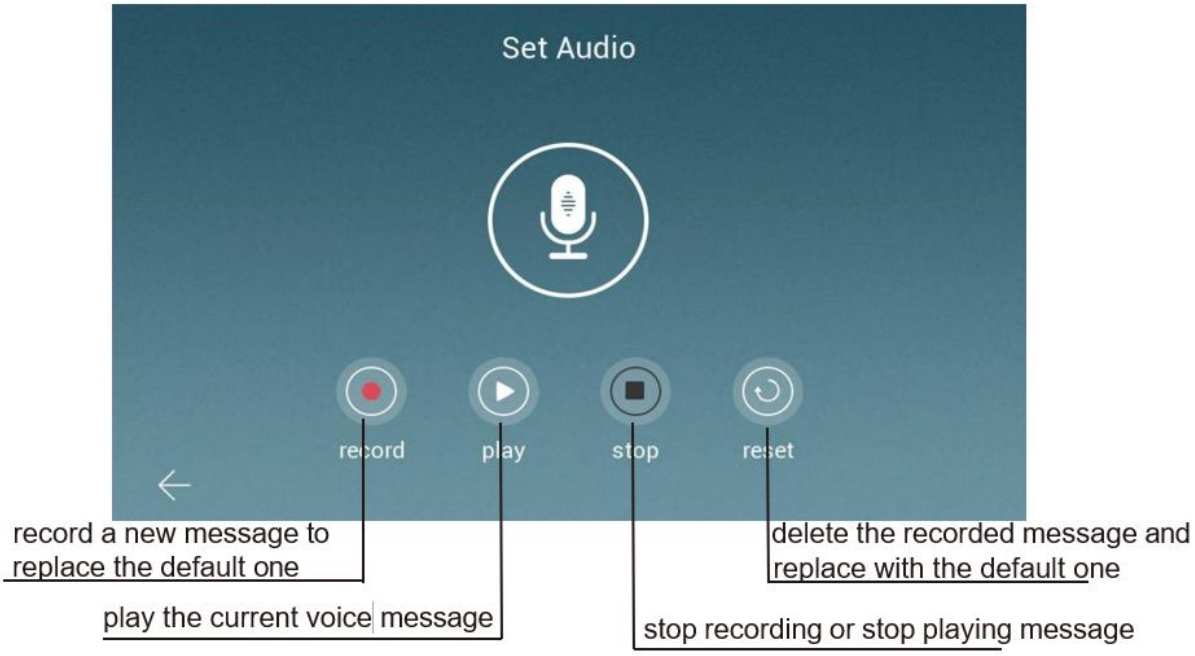


NOTE:

In [Leave message] page,

1) Off: Voice messaging is disabled. Visitors cannot leave a voice message.
2) instant: The greeting message plays immediately when a visitor calls. The indoor monitor does not ring.
3) if No Answer: The greeting message plays only if the call is not answered within 30 seconds.



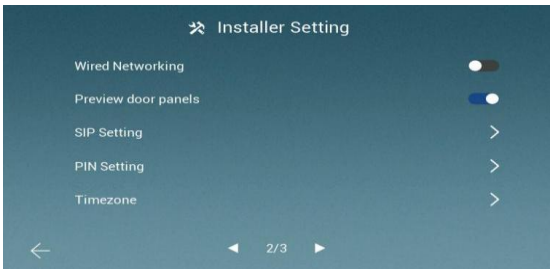


1. User Reset: Restores all user settings to their factory defaults while preserving the monitor address information. The monitor automatically restarts after the reset is complete.
2. Reboot Device: Restarts the monitor. Incoming calls cannot be answered while the device is restarting
3. Format SD Card: Permanently deletes all data stored on the MicroSD card inserted.
4. Warning: Formatting the MicroSD card permanently erases all images, videos, and recordings stored on the card.

5.6.5 Installer Settings

From the Settings menu, select Installer Settings, then enter the installer password (0000).

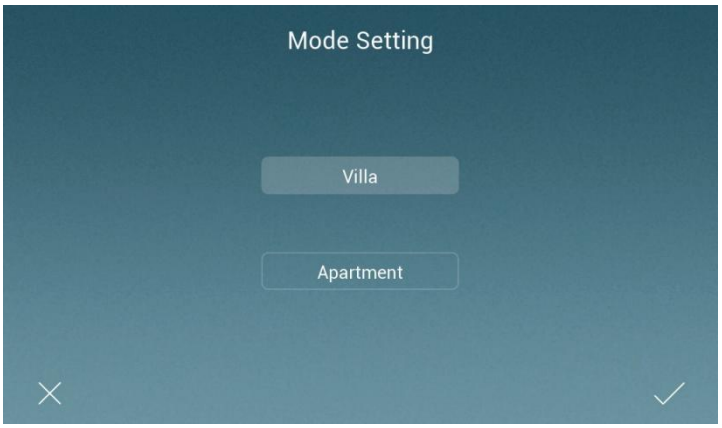




5.6.5.1 Mode Settings determine how indoor monitors respond to incoming calls.

Villa Mode
In Villa Mode, all indoor monitors ring and activate their displays when a call is received

Apartment Mode
In Apartment Mode, only the primary indoor monitor activates its display. Additional indoor monitors ring without turning on their displays



Note: The default operating mode is Villa Mode. For systems with more than eight indoor monitors, Apartment Mode is recommended to reduce power consumption.

5.6.5.2 Address Settings

To configure the monitor address:

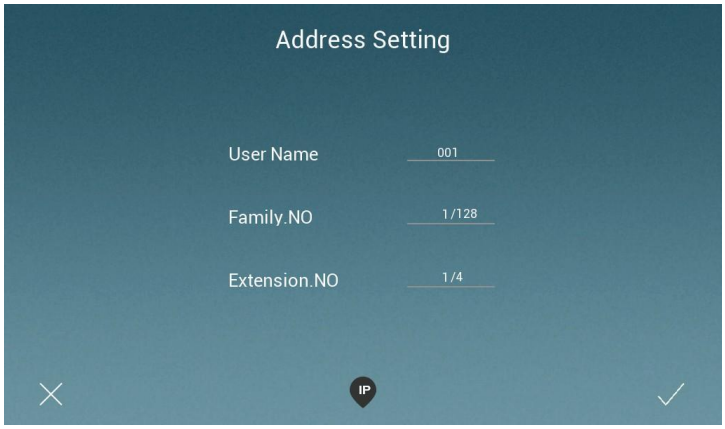
1. From the **Main Screen**, select **Settings**.
2. Select **Installer Settings**.
3. Enter the installer password (**0000** by default).
4. Select **Address Settings**.
5. Edit the desired fields:
   - **Unit Name**
   - **Unit Number**
   - **Monitor Number**
6. Tap ✓ to save the changes.

Note: Changing the Unit Number or Monitor Number requires the monitor to re-register with the system. The monitor will automatically restart after the changes are saved.

Configuring IP Settings

To modify the monitor's network settings:

1. Open **Address Settings**.
2. Tap the **IP** icon at the bottom of the screen.
3. Select **Automatic (DHCP)** or disable Automatic to enter network settings manually.
4. Configure:
   - IP Address
   - Subnet Mask
   - Gateway
   - Server IP Address
5. Tap ✓ to save the settings.





Current	Recommended
User Name	Resident Name
Family.NO	Unit Number
Extension.NO	Extension Number

5.6.5.3 Date & Time Settings

From the Installer Settings menu, select Date & Time Settings to configure the system date and time.

=



Note : Changing the time on any monitor updates the date and time for all devices connected to the system

5.6.5.4 Outdoor Panel Settings

From the Installer Settings menu, select Outdoor Panels to configure outdoor panels. settings, including

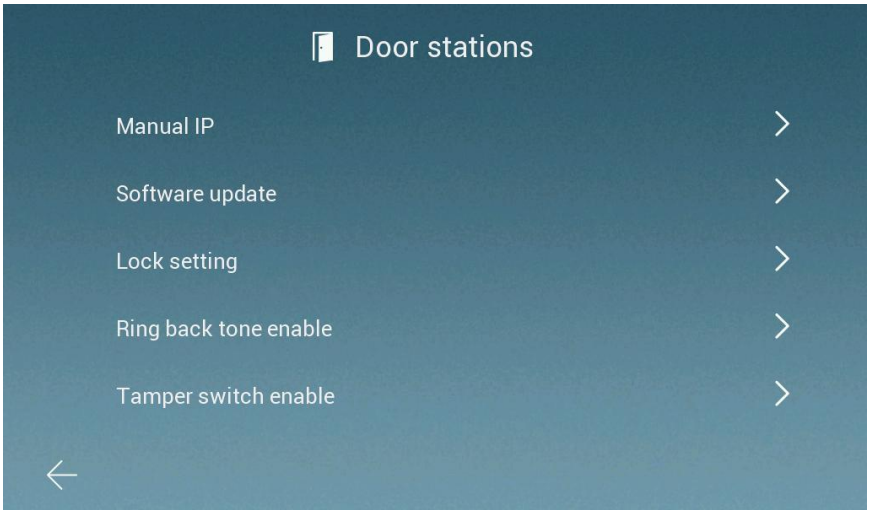
IP address settings

Firmware updates

Lock operation settings

Ring-back tone settings

Tamper switch settings



Address Settings Notes

Recommended Rewrite

1. **By default, the monitor is configured to obtain an IP address automatically (DHCP).**
2. When **Automatic** is enabled, all network settings are displayed but cannot be edited.
3. To assign a static IP address, disable **Automatic**, enter the desired network settings, and tap ✓ to save. The monitor will restart automatically.
4. The monitor IP address must be on the same network segment (subnet) as the outdoor panel(s) to ensure proper communication.
5. Before changing the monitor IP address, verify the IP addresses assigned to all outdoor panels in the system.

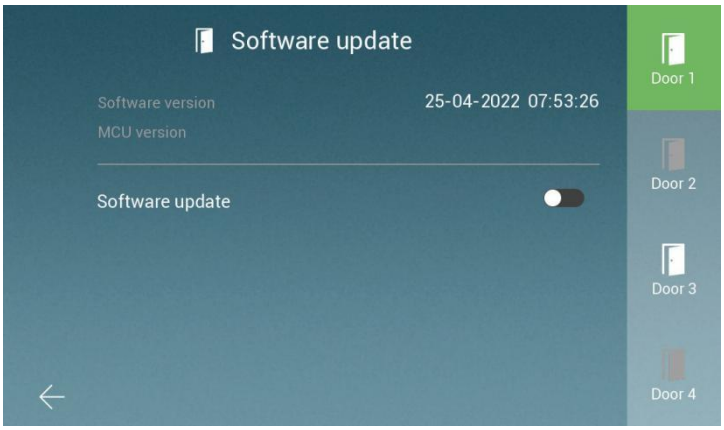
1. Manual IP

1) You can modify the address of Outdoor Panels in this page.
2) You can modify the address of any Outdoor Panels in the system by selecting the corresponding Outdoor Panel in the right column.(maximum Outdoor Panel is 4 in a system)
3) You should modify door 1 firstly, then modify others Outdoor Panels.
4) If a Outdoor Panel does not exit in the system, the Outdoor Panel in the right column will be grayed out and click invalid.
5) You can enable the “Automatic” icon to set the address automatically.
6) When the “Automatic” icon are enabled, the all network configurations on this interface are grayed out and cannot be modified.
7) If you want to modify the address setting, disable the automatic, and then configure the appropriate address. Then press”√” to apply the address, the device will restart.
8) The address you configure for Outdoor Panel needs to be in the same network segment as the address of the other Outdoor Panels and monitors in a system, otherwise the diagram will not be able to communicate normally.



1. Software Update

1) You can check the software version and MCU version of Outdoor Panels in this page.
2) Firstly inset a SD card in which has update file, and select a Outdoor Panel you want to update in the right column to click it, then enable the “Software update” icon, the Outdoor Panel will be updated.
3) You should update door 1 firstly, then update others Outdoor Panels.

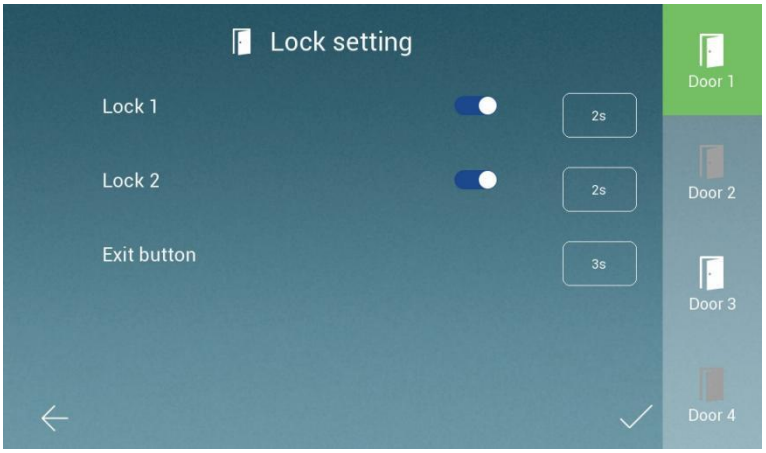


NOTE:

1. You can also update monitor by SD card, is that insert a SD card in which has update file,the monitor will show a message “Do you want to update?” then choose “update” the monitor will be in a update process, and it will restart.
2. You can update the monitor and Outdoor Panel by Web, the devices will restart after updating.

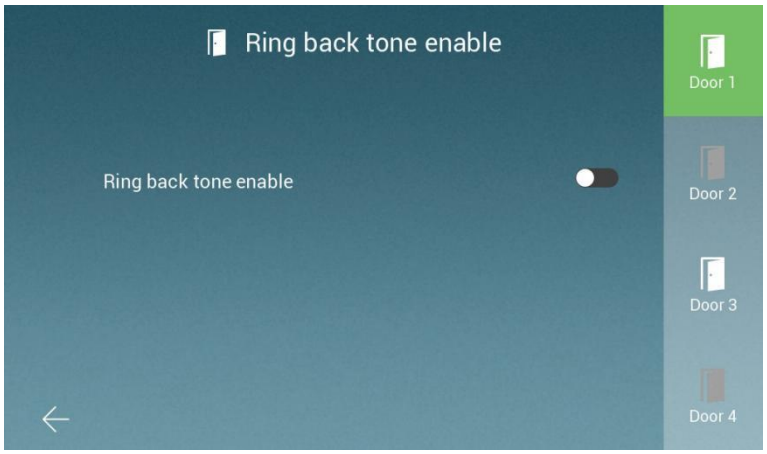
2. Lock Setting

1) You can modify the activation time for the lock 1 and lock 2 and exit button.
2) You can modify the lock of any Outdoor Panels in the system by selecting the corresponding Outdoor Panel in the right column.(maximum Outdoor Panel is 4 in a system)
3) If a Outdoor Panel does not exit in the system, the Outdoor Panel in the right column will be grayed out and click invalid.



3. Ring back tone enable

1) If you enable the ring back tone, the Outdoor Panel will ring when it calls to monitor; If you disable the ring back tone, the Outdoor Panel will keep quiet ,i.e. no bells
2) You can enable or disable the function of any Outdoor Panels in the system by selecting
the corresponding Outdoor Panel in the right column.(maximum Outdoor Panel is 4 in a system)
3) If a Outdoor Panel does not exit in the system, the Outdoor Panel in the right column will be grayed out and click invalid.



5.6.5.5 Factory Reset

When you choose to reset the factory, it means the monitor will be reset to the default configuration, and it needs to be re-registered. The monitor will restart after factory reset.

5.6.5.6 Wired networking

1. Connect the device with router through 2-wire/IP converter
2. Set the IP address of Outdoor Panel and monitor in the system which should be the same network segment as the router you connected.
3. Enable the function in [Installer Setting] page.

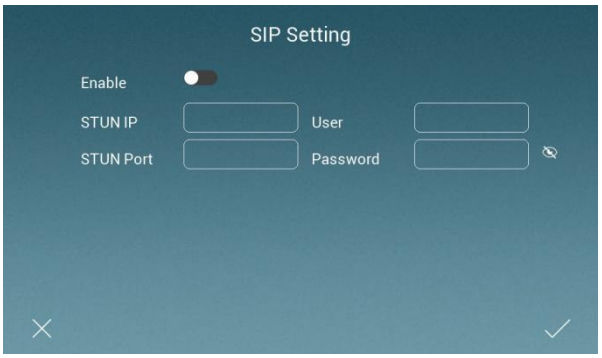
NOTE: Wi-Fi will be off automatically when you enable the [Wired networking] function.

5.6.5.7 Preview door pannels

1. When you enable the function of previewing door panels, you can preview the Outdoor Panels by pressing [Monitor] in main page.
2. When you disable the function of previewing door panels, you press [Monitor] in main page, it will show a message ”No support”, so you can’t preview Outdoor Panels in monitor.

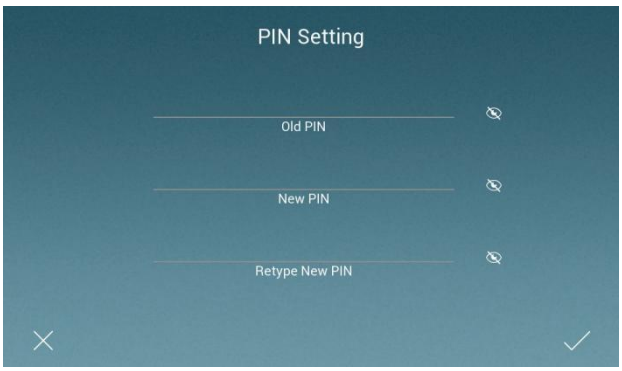
5.6.5.8 SIP Setting

1. The monitor supports compatible with 3rd party SIP device with converter.
2. Our system is SIP 2.0 compatible, which enables integration with PABX exchanges and IP telephones.



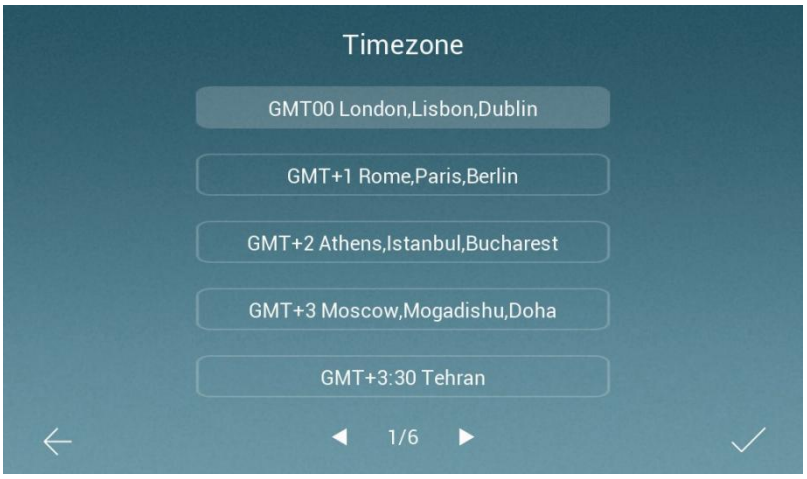
5.6.5.9 PIN Setting

In this page, you can change the installer password.

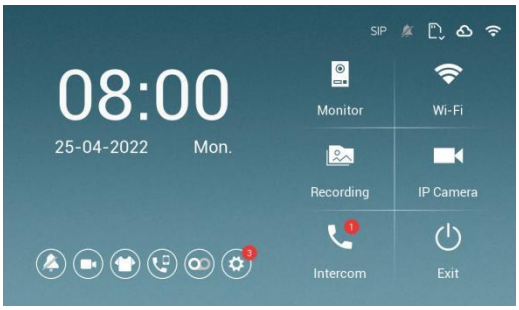


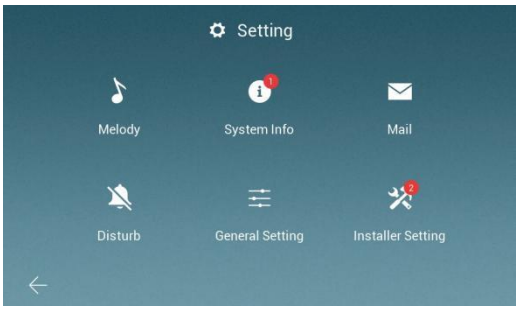
5.6.5.10 Timezone Setting

In this page, you can choose the timezone which you want to show in the system.
This time zone will be synchronized to all devices in the system.

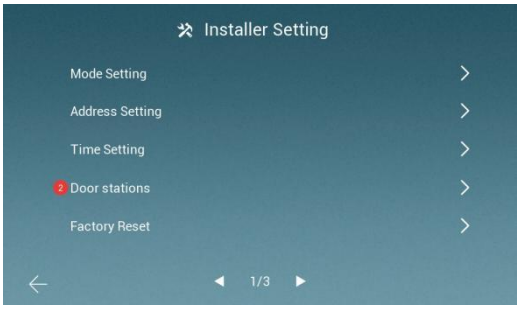


5.7 Cloud update

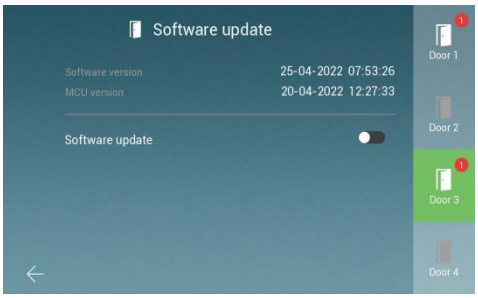










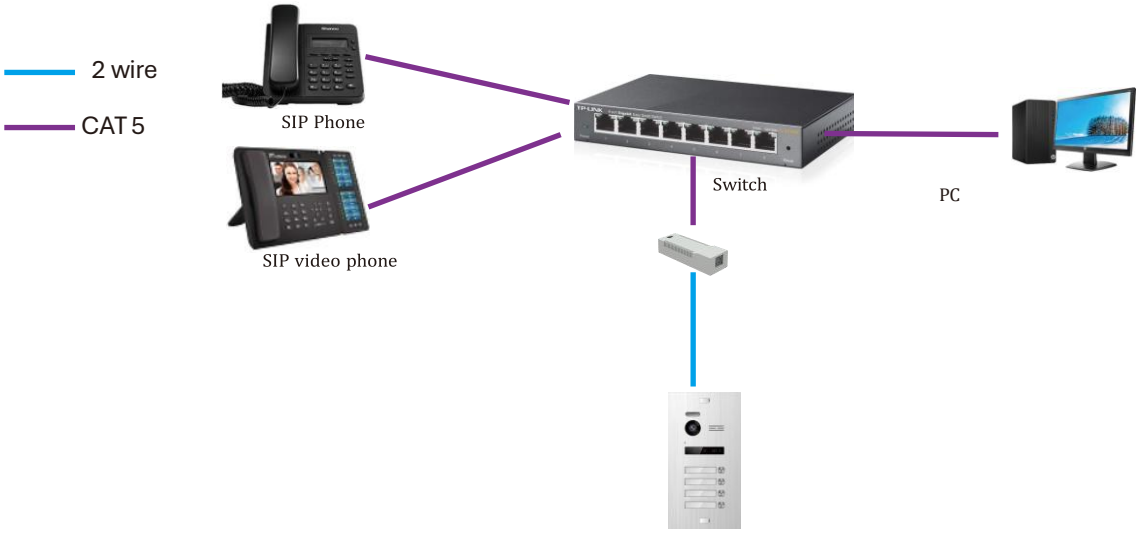


NOTE:

1. When you see a little red dot in the upper right corner of the settings icon in main page, it means there are latest versions that need to be updated.
2. You can press [Setting]-[System Info]-[Upgrade] to update the latest version for the monitor.
3. You can press [Setting]-[Installer Setting]-[Outdoor Panel]-[Software update]-[enable the function] to update the latest version for Outdoor Panels.
4. After your upgrade is complete, the red dot will disappear.

How to add sip device

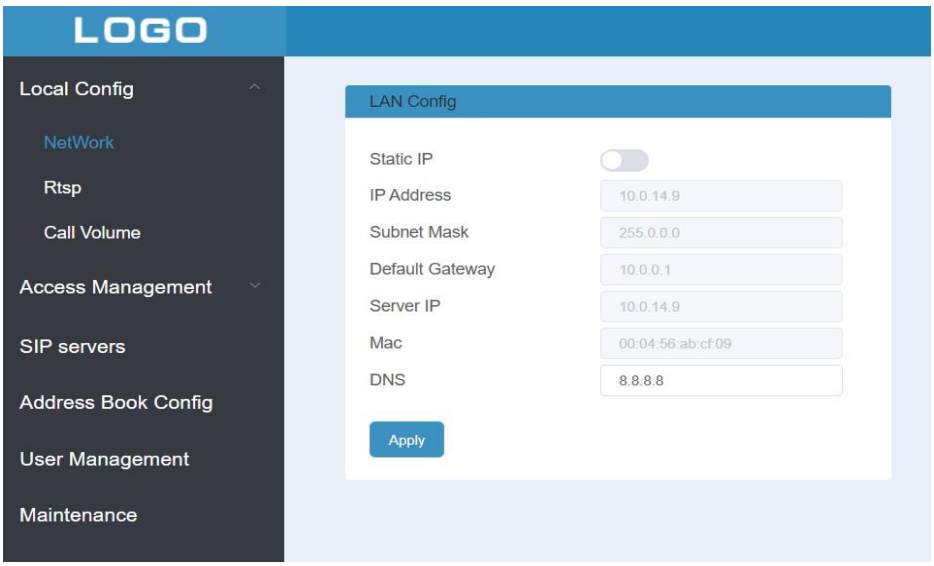
6.1 Add sip devide with point to point



1. IP address of SIP device and PC should be in the same network segment as our system

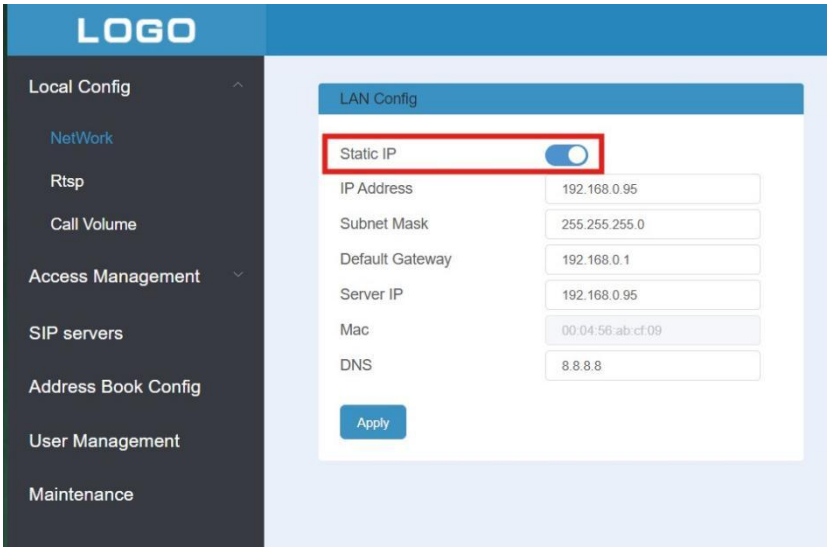
access web interface of Outdoor Panel, default IP address is 10.0.14.9

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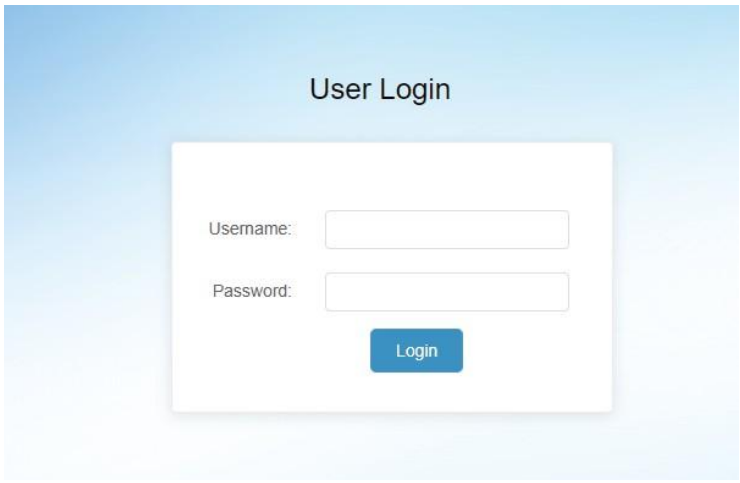


If you don't want to use default IP address, you can change IP address of Outdoor Panel manually.

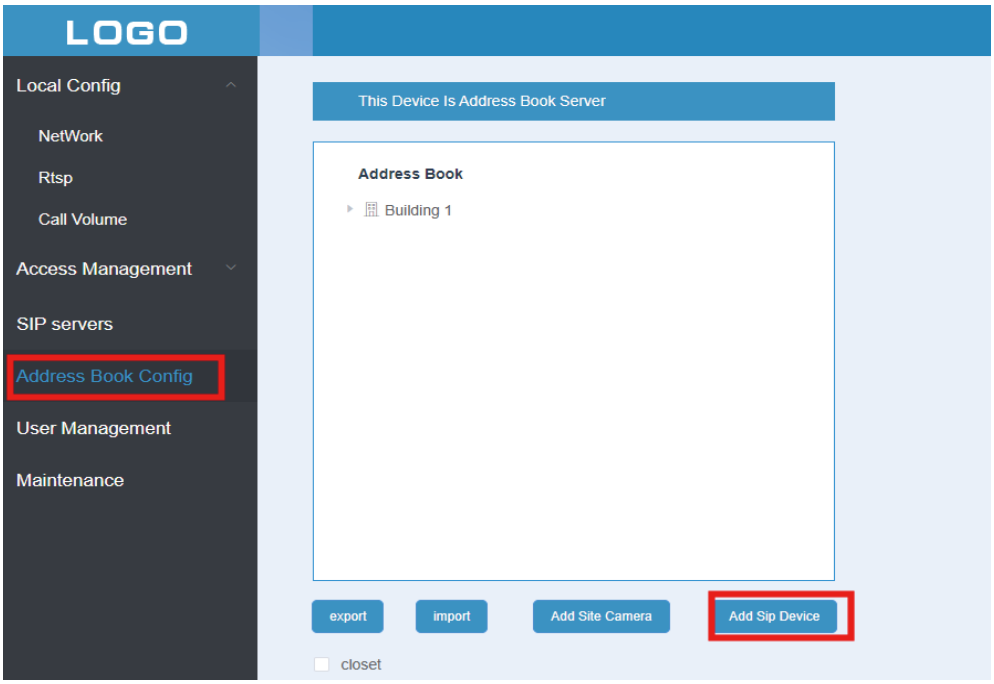
1) Enable "Static IP";
2) You can set IP address you want;
3) Click Apply.

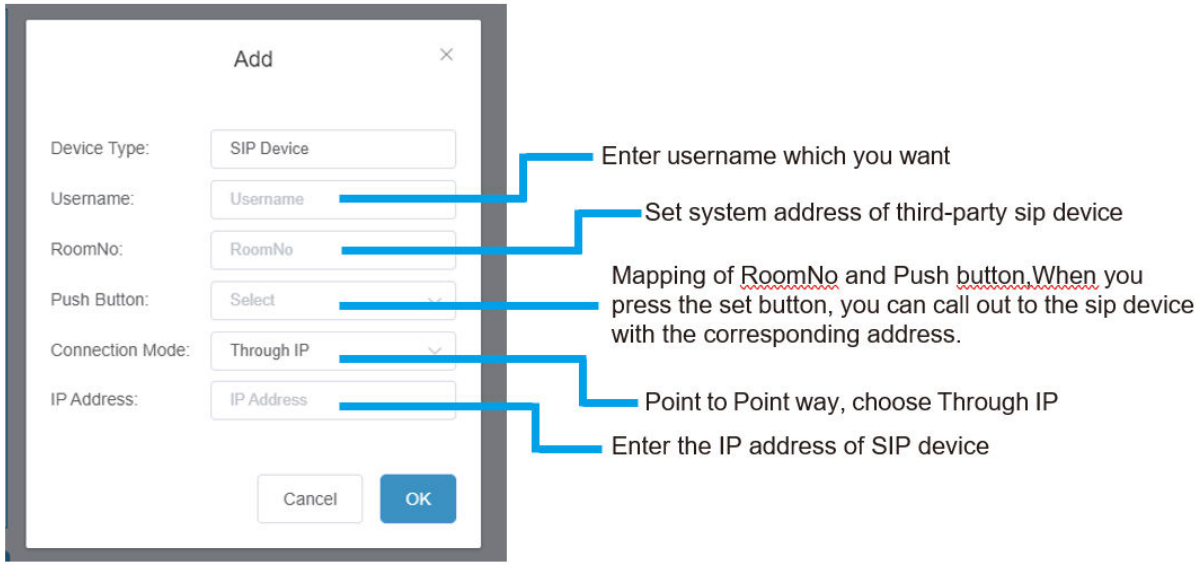

LOGO
Local Config
NetWork
Rtsp
Call Volume
Access Management
SIP servers
Address Book Config
User Management
Maintenance
LAN Config
Static IP
IP Address
192.168.0.95
Subnet Mask
255.255.255.0
Default Gateway
192.168.0.1
Server IP
192.168.0.95
Mac
00:04:56:ab:cf:09
DNS
8.8.8.8
Apply

2. Use IP address of Outdoor Panel to access its web interface.
3. Enter Username and Password, then click Login, you will access its web successfully. Username defaults to admin; Password defaults to 888999.



4. Click Address Book Config firstly, then clicking Add Sip Device will show a Add interface.

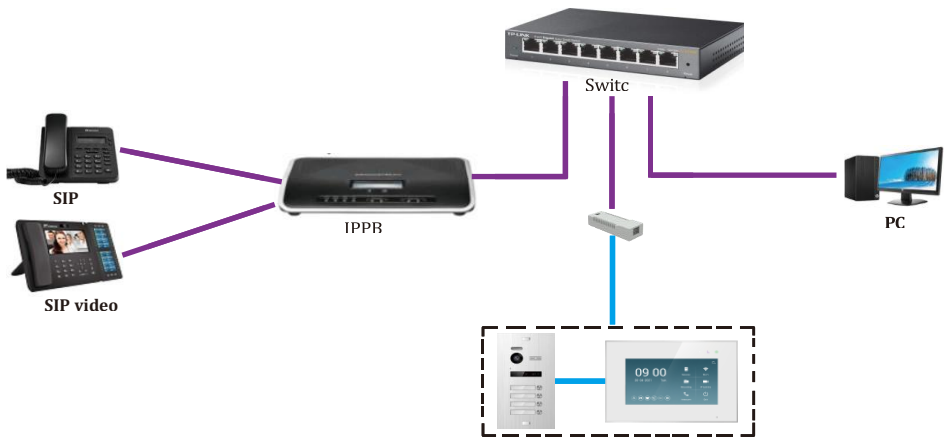




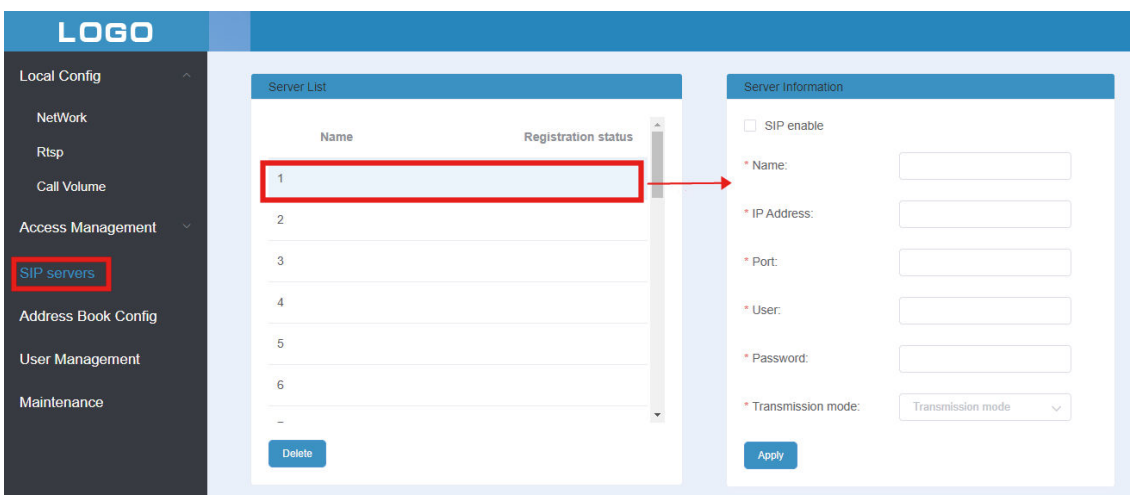
6.2 Add sip devide with SIP servers

2 wire

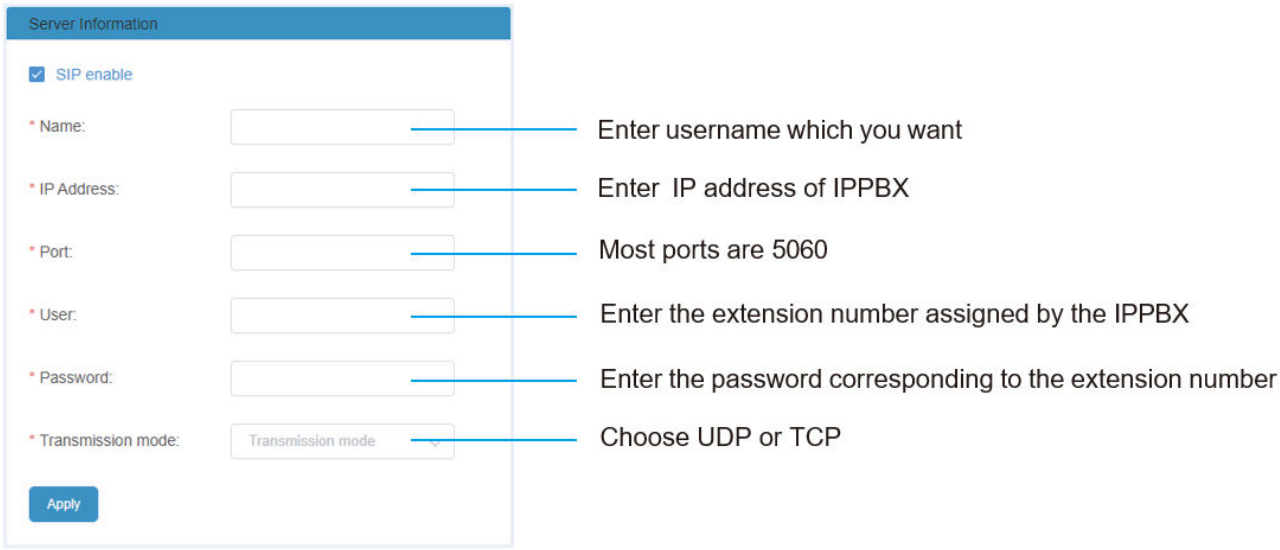
CAT 5



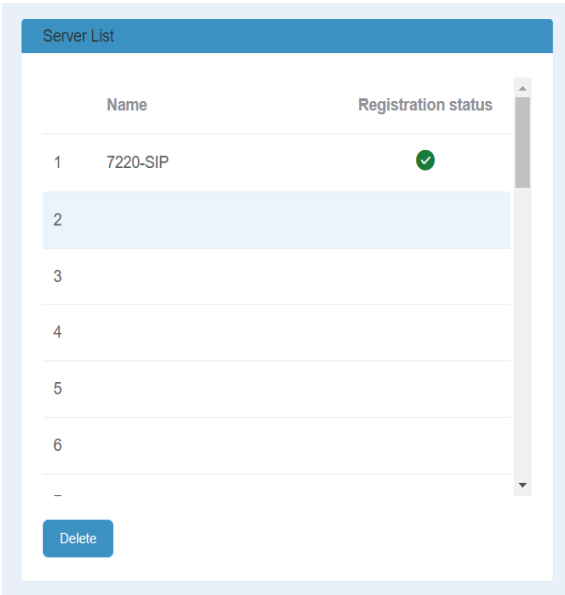
1. IP address of SIP device and PC should be in the same network segment as our system.
2. You should access web interface of Outdoor Panel,same as the previous page.
3. Click SIP servers firstly, then choose a number in Server List to click, it will pop up a box to enter Server information.



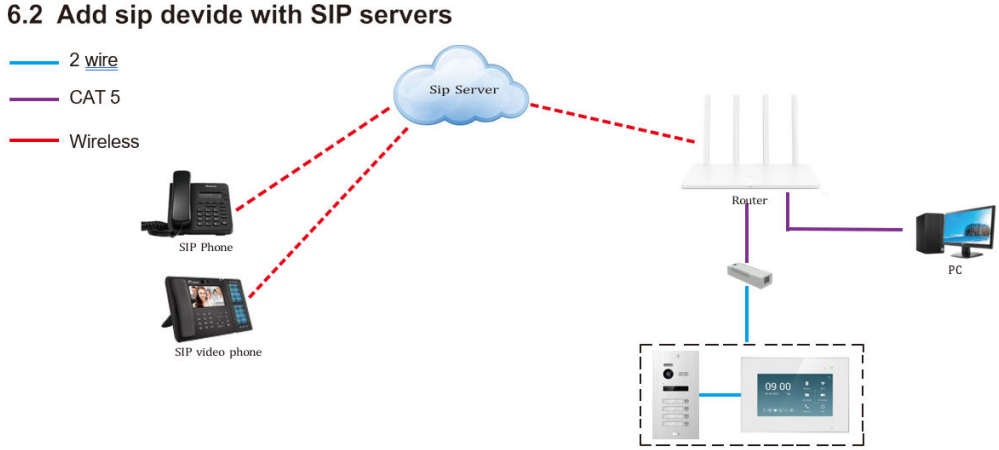
3. Tick the SIP enable. Then enter Server information, click Apply at last.



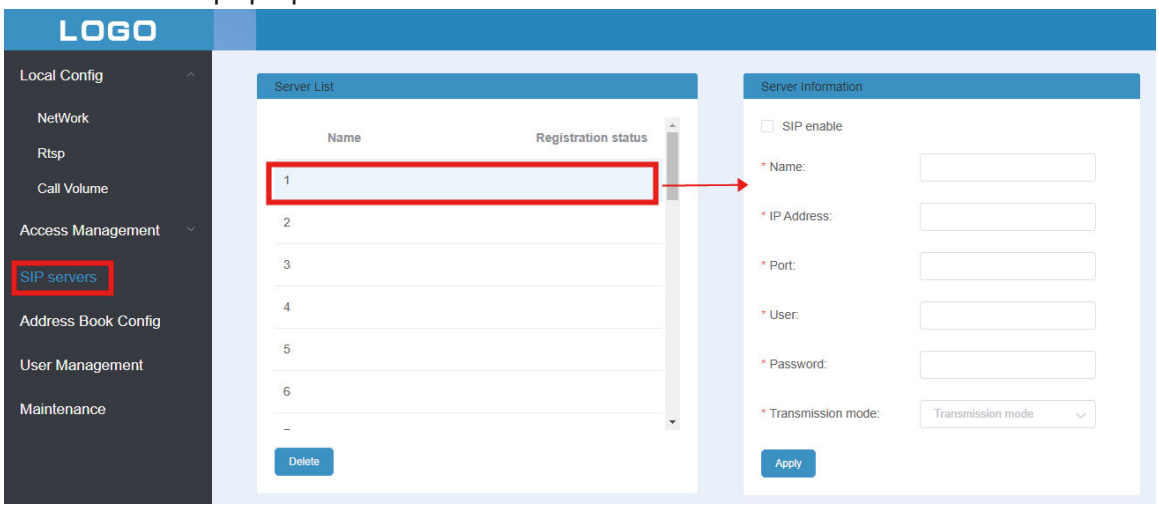
4. Click Apply, then check the Registration status if it shows a green tick or a red cross. If shows a green tick ,it means the door panel has successfully registered to the IPPBX.



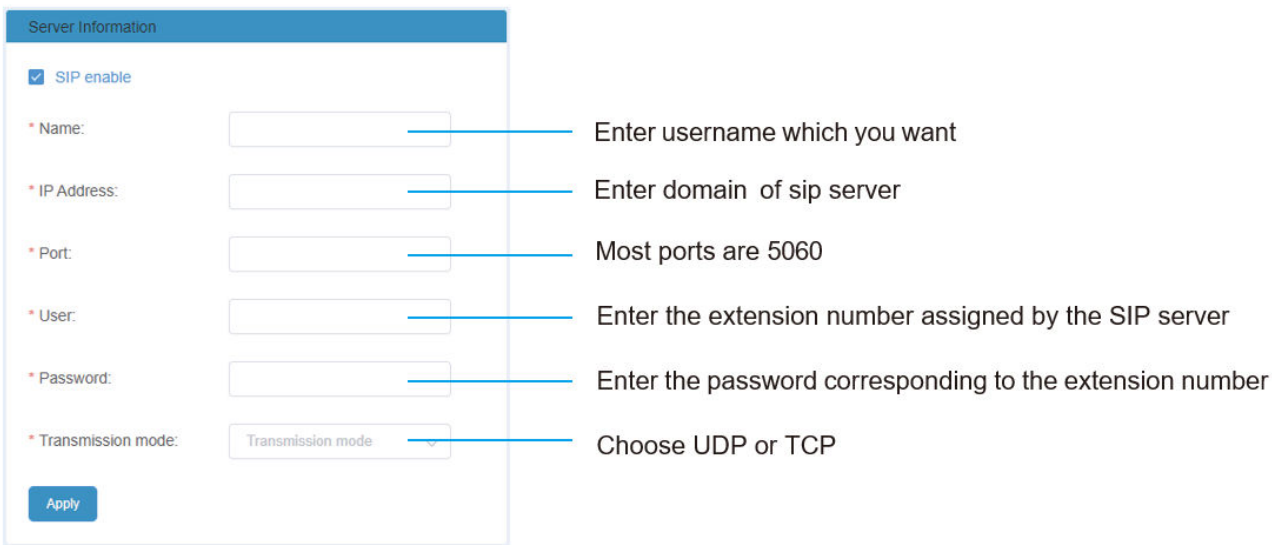
6.2 Add sip devide with SIP servers



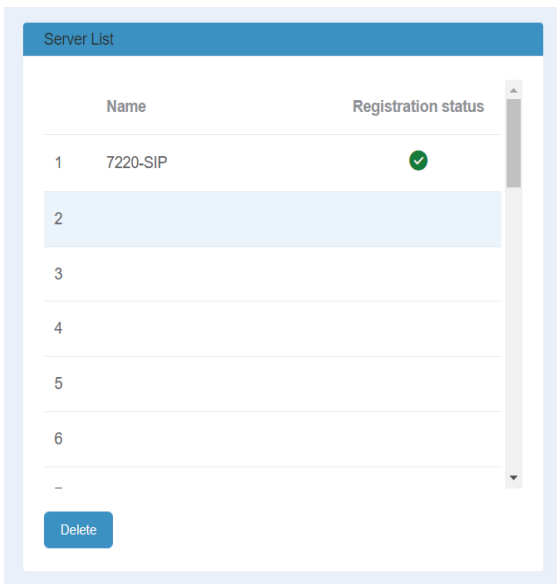
1. You should access web interface of Outdoor Panel, same as the previous page.
2. Click SIP servers firstly, then choose a number in Server List to click, it will pop up a box to enter Server information.



3. Tick the SIP enable. Then enter Server information, click Apply at last.



4. Click Apply, then check the Registration status if it shows a green tick or a red cross.
   If shows a green tick ,it means the door panel has successfully registered to the SIP server.



7. How to register a new device

Only set the monitor address as 01001, you can choose time zone and time, other monitors don't have time setting.

Situation 1:

After setting family and extension number, you click "√"directly, then the addresses of monitors and Outdoor Panel will be default address to register.

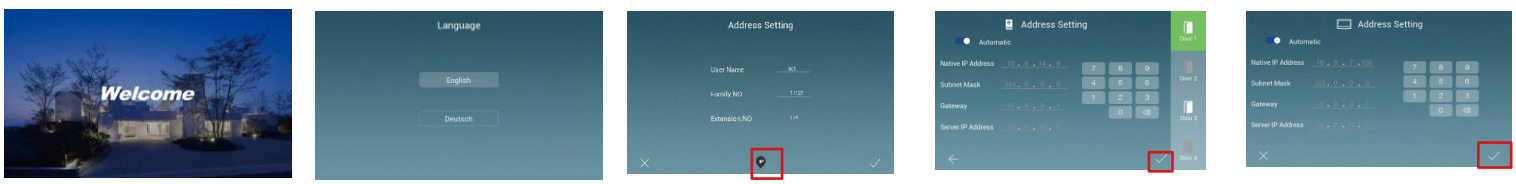


Situation 2:

After setting family and extension number, you choose enter IP address setting interface,

1) if monitor address is 01001, then the monitor will bounce to the door panel address setting first. It will show a message "Please set the addresses of Door1,Door 2,Door3, Door4 in turn, if the icon is gray,
   it means that this door panel does not exit."
   When you set the door panel successfully, it will bounce to the next existing door panel automatically.
   After setting Outdoor Panel addresses, click "√", then bounce to the monitor address setting interface.

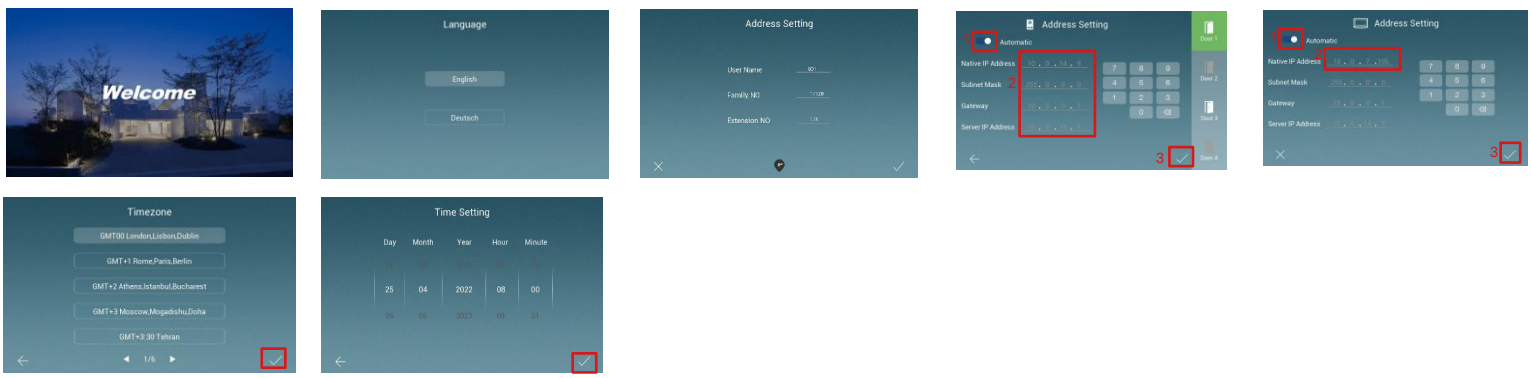
2) If monitor address is not 01001, then the monitor will bounce to the monitor address setting directly.



Situation 3:

If you want to set addresses manually, disable the "Automatic" firstly, then enter the addresses you want to set. You should make sure that all addresses in this diagram must be the same network segment as Outdoor Panel1.

1) If the monitor address is 01001, after setting Outdoor Panel address, it shows "successful", then it will bounce to monitor address setting interface automatically, in that time, monitor subnet mask, gateway and server IP address has been shown automatically, you only need to enter monitor address, then click "√" to register.
2) If the monitor address is not 01001, it will only enter monitor address setting interface, you need to enter monitor address ,subnet mask, gateway and server IP address manually.



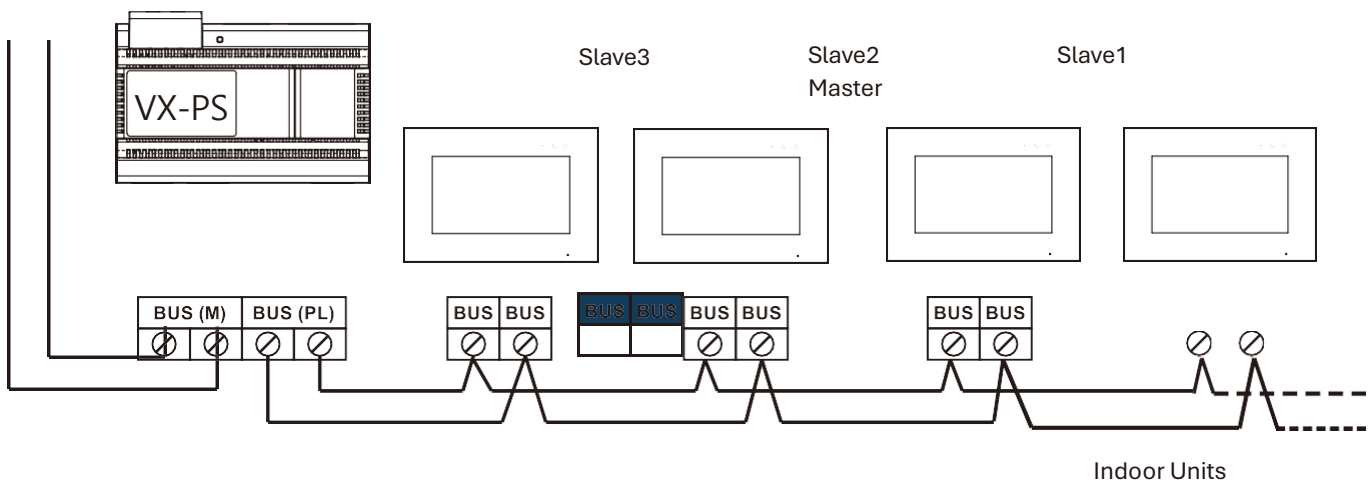
6.Specifications

Category	Specification
Input power	System power: 30 ± 2 VDC
Memory	SD card: support Max 128 GB, 5000 records totally Inner flash: support 200 MB,100Images,10 videos
TFT LCD	7-inch IPS LCD
LCD Resolution	1024 x 600
Dimensions (mm)	222 × 154 × 15(without wall bracket)
Working Temperature	-10℃~+55℃

7. System Connection Diagram

Type: In-out diagram

per power supply : **Maximum** 16 **monitors** + **Maximum 2 Outdoor Panels**
Support extended diagram with 2-wire/IP converter

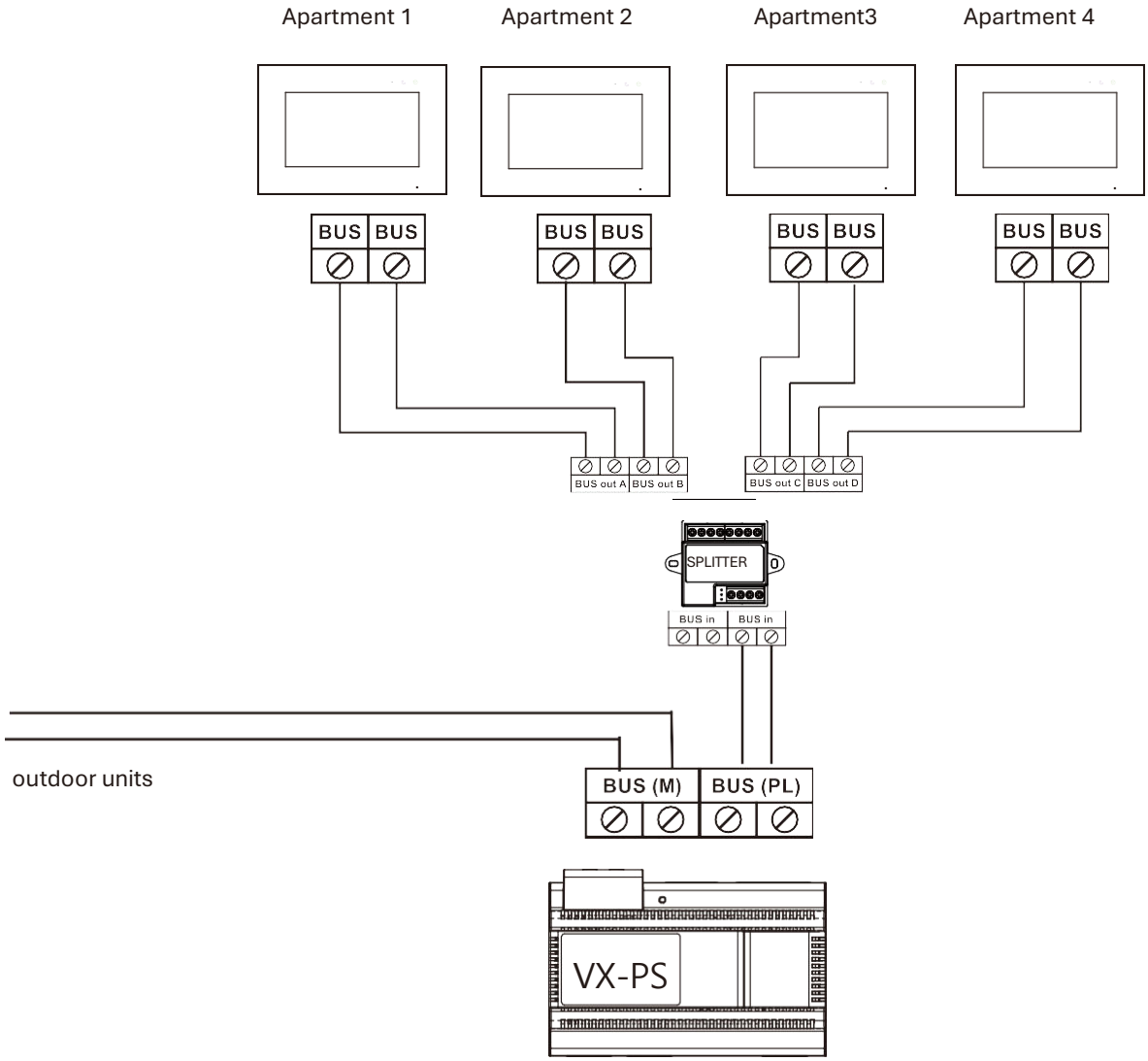


Note: Master monitor or slave monitor have no limitation about the position, they can be put anywhere

Type: star diagram with **SPLITTER**

per power supply: Maximum 16 monitors+Maximum 4 Outdoor Panels
+ Maximum splitter no limitation

Support extended diagram with 2-wire/IP converter.



Cable	A	B
RVV 2 x 0.75mm²	120 m	120 m
RVV 2 x 1.00mm²	150 m	150 m

A. Distance between the farthest Outdoor Panel and power supply
B. Distance between the farthest monitor and power supply