



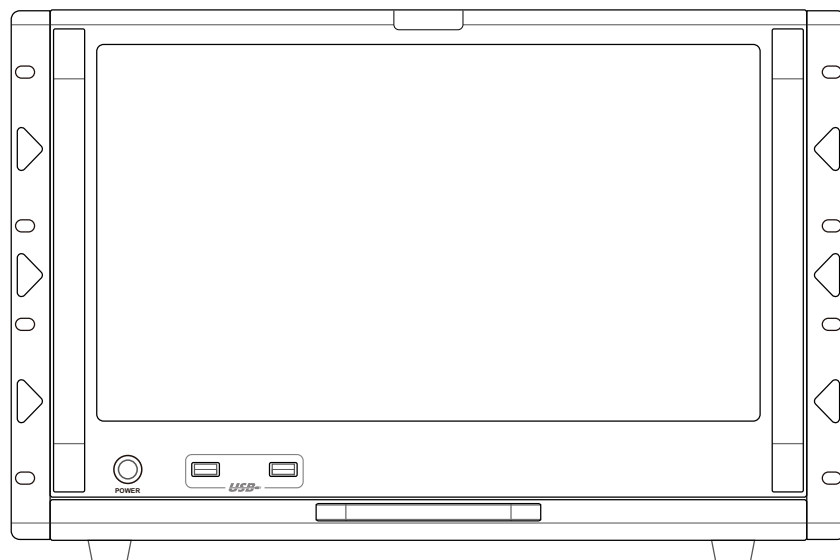
Broadcast Intercom Web Server

M-9100

User Manual



2U



7U

Safety Precautions

Warning! Please follow the requirements below in order to lower the risk of electric shock and damage to the equipment:

- Must use a separate three-pin power outlet with a grounding wire.
- Avoid squeezing, knotting or damaging the power cord. If the power cord is damaged, please contact the dealer immediately. After the power cord is replaced, the system can be powered on. Otherwise, it may cause electric shock or even fire.
- Unplug the power when repairing or cleaning the surface.
- Do not directly pull the power cord when unplugging the power plug, in case of breaking or even electric shock; It is forbidden to place inflammable and explosive materials near the host to prevent explosion and fire.
- The host is required to be placed horizontally on the plane, not tilted, inverted or upright.
- The host should be placed in a dry and ventilated environment, more than 5cm around, to facilitate heat dissipation. Do not cover the host. Do not put heavy weight on the host.
- Non-professionals are strictly forbidden to open the host.
- Please turn off and unplug the power if not in use for a long time or during thunderstorm.

Please pay attention to the following symbols:



The lightning triangle is used to alert the user to the danger of an electric shock.



The exclamation triangle is used to alert the user to important operations or maintenance instructions

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Introduction

Thanks for using our product. All our products are tested strictly before leaving the factory, with guaranteed quality. Our product are widely used in such places as schools, gymnasiums, square halls, parks, parking lots, railway stations, airports, villa communities and mall supermarkets, etc., and they will be your ideal choice for public address system. For better installation, commissioning and use of the product, please read this manual in detail before installation.

System Overview

The IP PA Intercom-based System is an integrated audio and video communication system that incorporates computer network, PSTN telecommunication network and mobile communication network. The equipment in the system can be interconnected with the equipment in the PSTN network and mobile communication network in the LAN and WAN. Leveraging on the network convergence, it can realize convenient voice, video intercom and broadcast functions at a lower cost. The system server adopts industrial-grade host, stable and reliable, with built-in SSD and aluminum alloy panel. Working 24 hours a day, it can run stably for a long time under low temperature and high temperature environment. With the help of mature Ethernet hardware, the entire system does not require additional line maintenance. Through this server, all terminal devices in the same network can be configured, managed and maintained. The server has two forms of 7U and 2U, which can meet your different requirements.

Features

- With mature IP convergence technology, it can support Internet and telecommunications network integration, and HD voice conversation between fixed-line/mobile numbers and IP network terminals; provide low-latency broadcast, intercom, conference, recording, monitoring and other functions in WAN environment.
- With the powerful VOIP relay server, it can support seamless bridge with Cisco, Avaya, HUAWEI, 3CX and other well-known VOIP servers at home and abroad to realize the interaction of voice, video and text information between multiple systems.
- Support linkage with mainstream cameras such as Hikvision and Dahua to achieve AI broadcast functions such as event triggering and event broadcasting, and integrate iFlytek TTS module with clear and natural voice.

- Based on the Linux system and B/S architecture, you can log in the system through any PC or mobile platform browser.
- With background broadcast, emergency broadcast, voice intercom, video intercom, monitoring and video monitoring functions.
- Support custom grouping operations on all zones, for broadcast and volume adjustment.
- Can display group information, zone status (switch/volume/real-time program name), program list, and timing point information.
- Support broadcast program operations for one or more groups/zones.
- Can create multiple timing schemes with multiple timing points, and support timing schemes backup storage and direct import/export, as well as add/modify/delete timing points and send them to a designated zone.
- Support EQ and Bass enhancement.
- Can manage all network terminal equipment, upgrade and maintain the program sources and timing schemes of the terminal equipment and the equipment.
- Support USB encryption device control function.
- Quick upgrade and maintenance (support cloud upgrade, remote upgrade, and local upgrade).
- 10/100M/1000M self-adapting, support DHCP/IP settings, LAN and WAN.
- Support PSTN.
- Support audio acquisition card.
- Equipped with several USB and VGA interfaces for extension.
- Adopt 17.3-inch touch screen (Only for 7U), built-in large capacity SSD with sensitive touch, fast reading and writing speed and low power consumption.
- Hidden push-pull keyboard and TouchPad for 7U, no need for external keyboard or mouse.
- Adopt professional rack case design and aluminium alloy structure, with high anti-magnetic, anti-dust, anti-impact ability.
- 3C certificate, stable and reliable.

Product Information (2U)

Front Panel



1. Chassis Holder

2. Mounting Hole

3. POWER

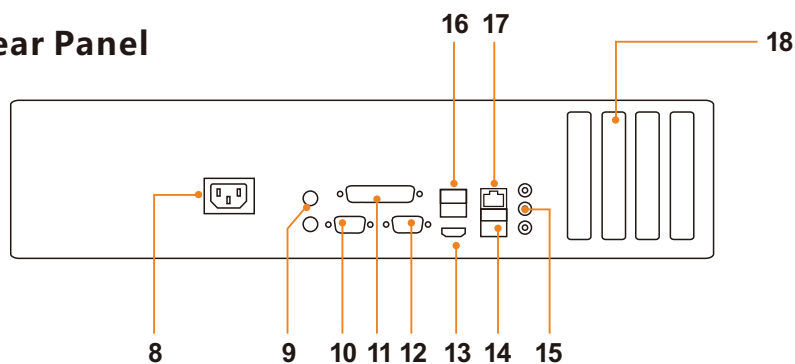
4. POWER LED

5. USB

6. RESET

7. HDD LED

Rear Panel



8. Power Interface

9. PS/2 Interface

10. COM Interface

11. Print Interface

12. VGA Interface

13. HDMI Interface

14. USB2.0 Interface

15. Audio Interface

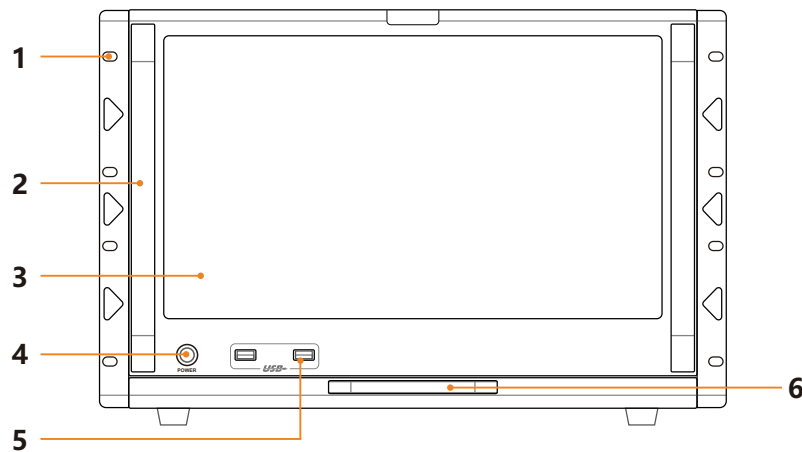
16. USB3.0 Interface

17. Network Interface

18. Micro SD Slot (Support PSTN & audio card)

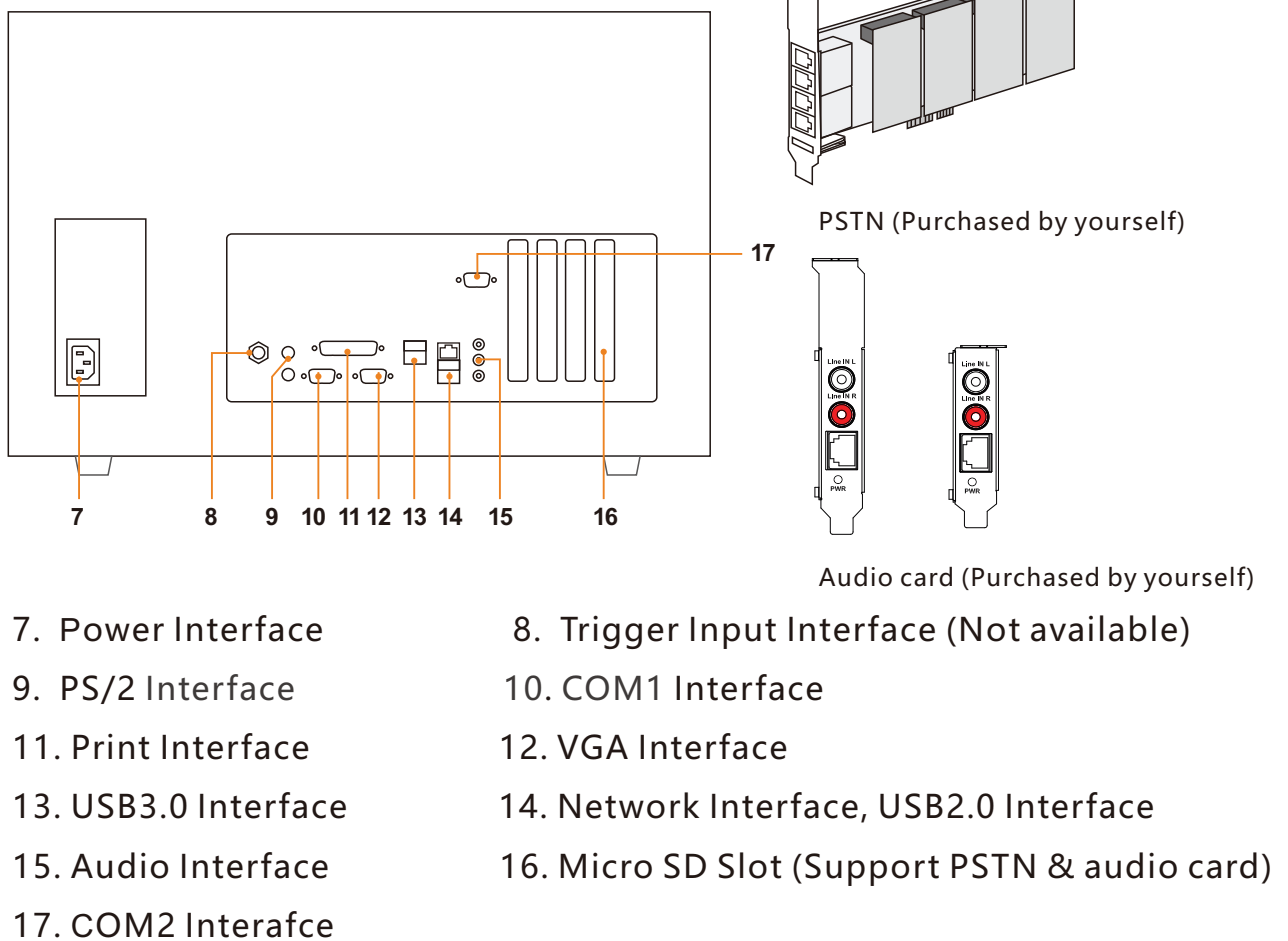
Product Information (7U)

Front Panel



- | | |
|-------------------------|--------------------|
| 1. Mounting Hole | 2. Chassis Holder |
| 3. Display Touch Screen | 4. POWER |
| 5. Front USB Interface | 6. Keyboard Handle |

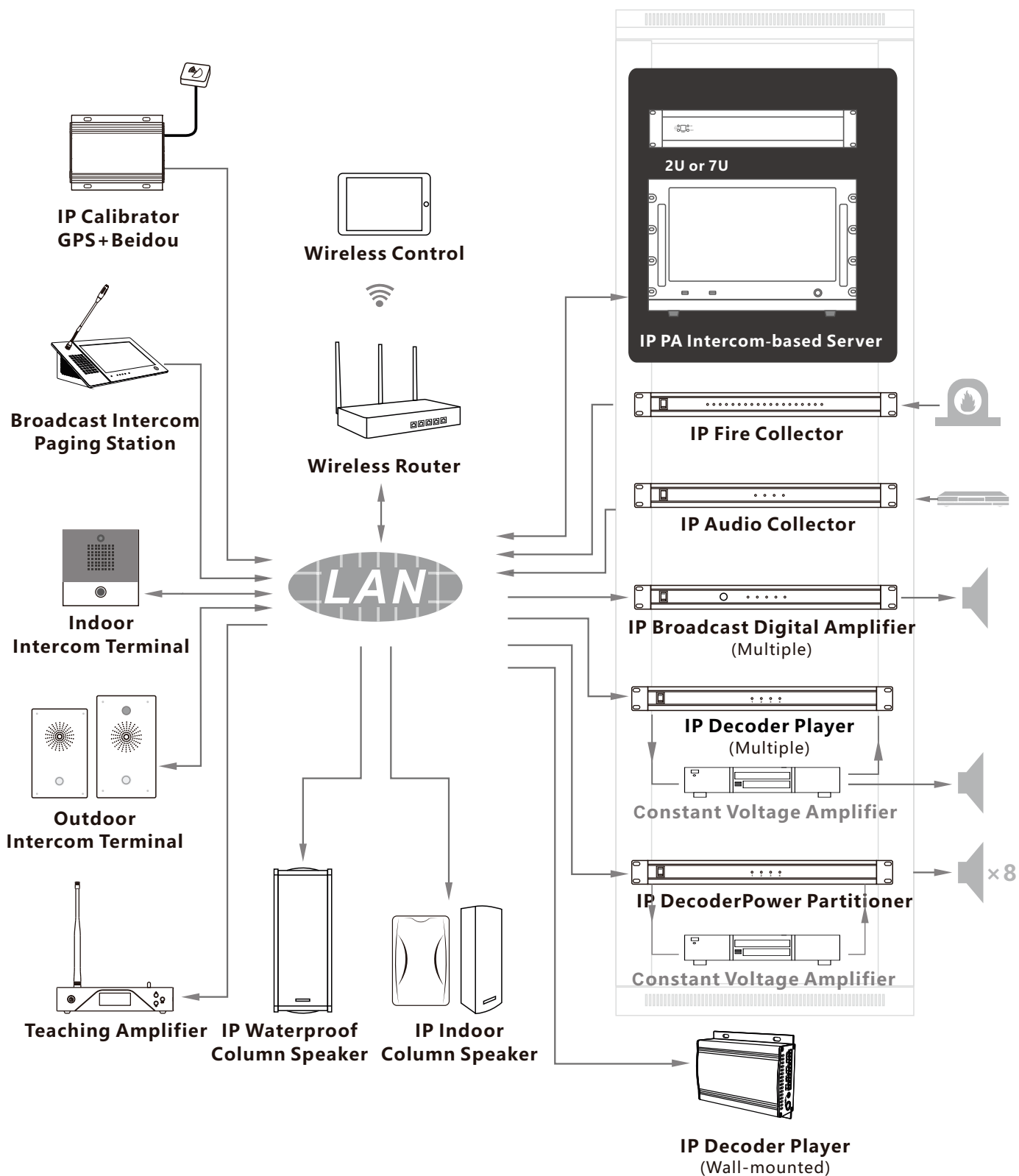
Rear Panel



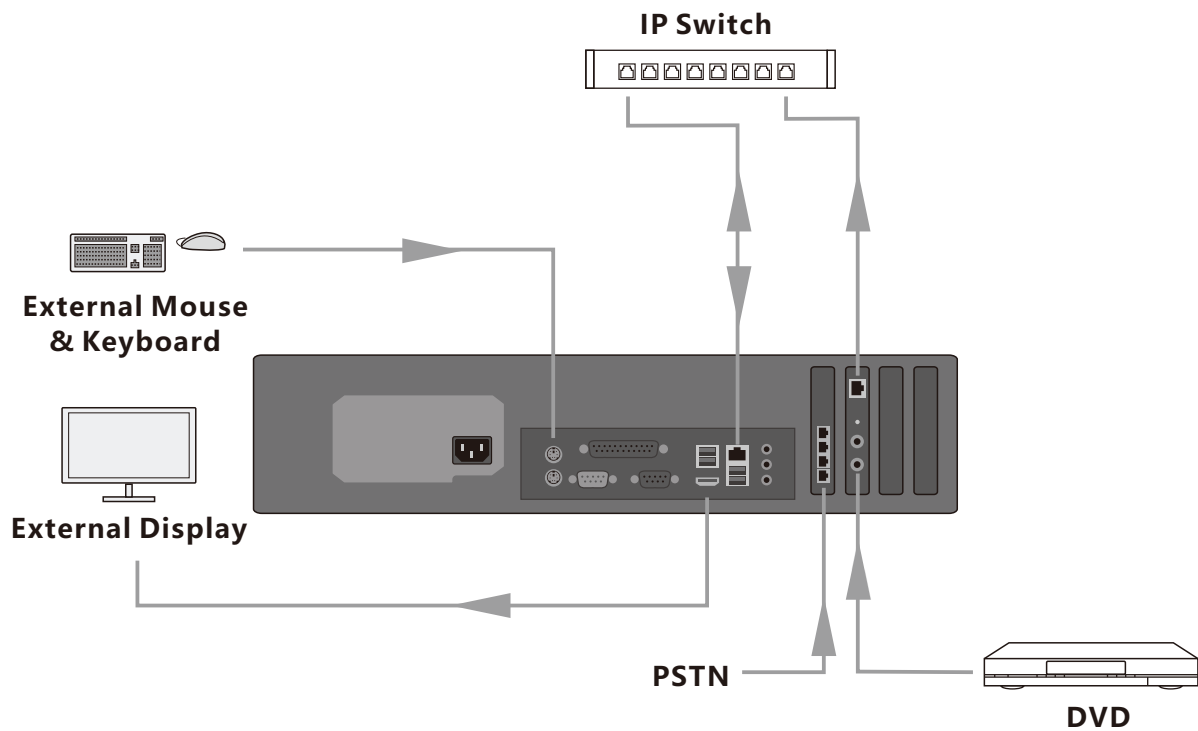
- | | |
|----------------------|---|
| 7. Power Interface | 8. Trigger Input Interface (Not available) |
| 9. PS/2 Interface | 10. COM1 Interface |
| 11. Print Interface | 12. VGA Interface |
| 13. USB3.0 Interface | 14. Network Interface, USB2.0 Interface |
| 15. Audio Interface | 16. Micro SD Slot (Support PSTN & audio card) |
| 17. COM2 Interface | |

Connection and Installation

System Diagram



Connection Example (2U)

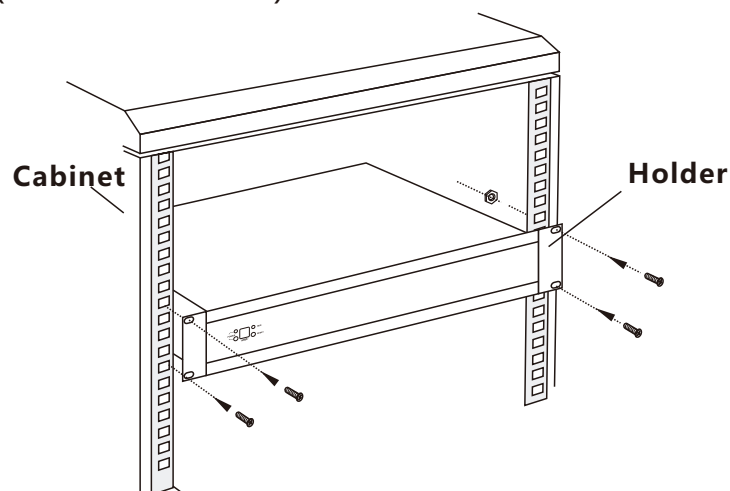


! In order to ensure the normal operation of the whole system, a router must be set up in the network connected by devices.

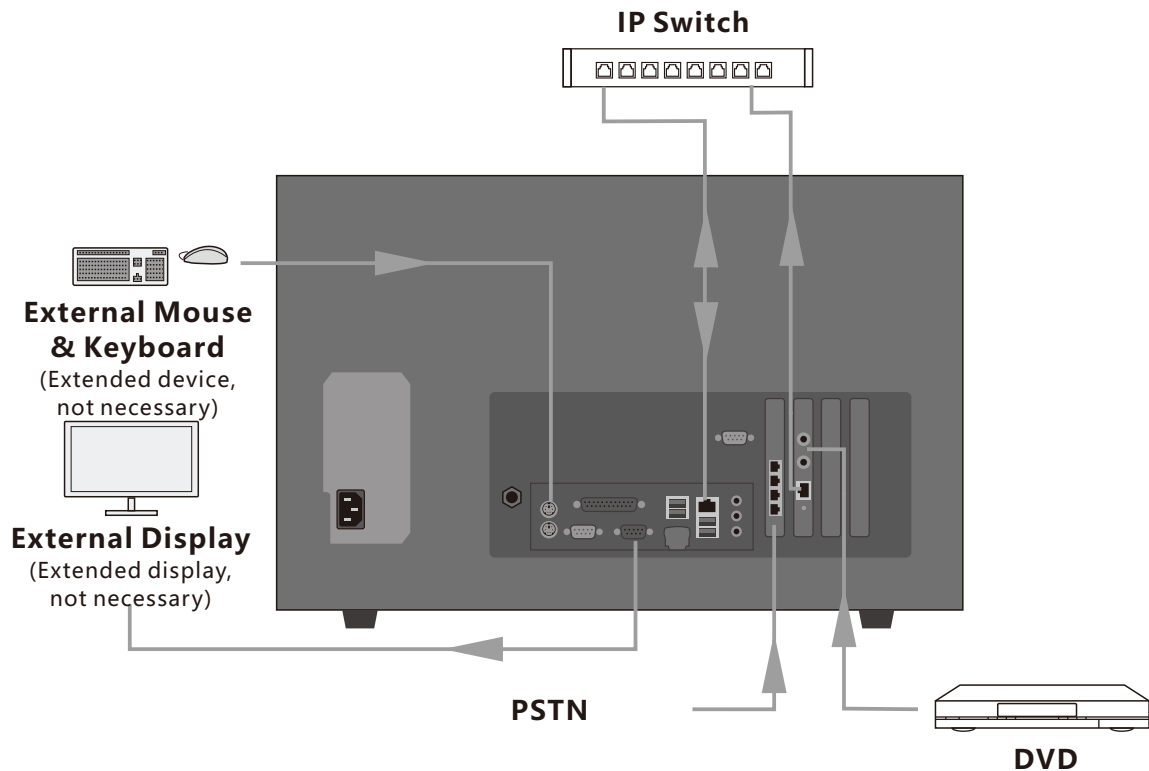
* External devices, PSTN and audio card in the server need to be purchased by yourself.

Installation (2U)

Install two holders on the left and right sides of the front end of the server and push the device parallel to the cabinet, so that four holes on both sides of the device are aligned to the installation holes on both sides of the cabinet. Fix it with screws. (As shown below)



Connection Example (7U)

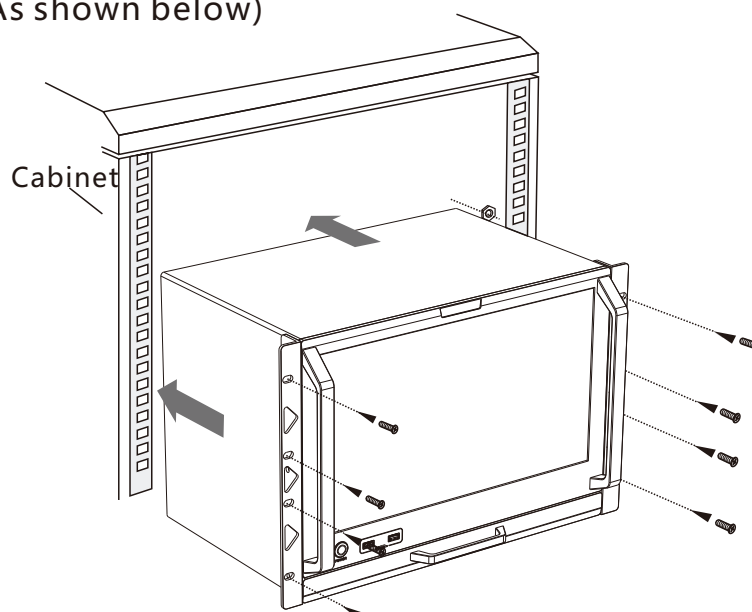


! In order to ensure the normal operation of the whole system, a router must be set up in the network connected by devices.

* External devices, PSTN and audio card in the server need to be purchased by yourself.

Installation (7U)

Push the device parallel to the cabinet, so that four holes on both sides of the device are aligned to the installation holes on both sides of the cabinet. Fix it with screws. (As shown below)

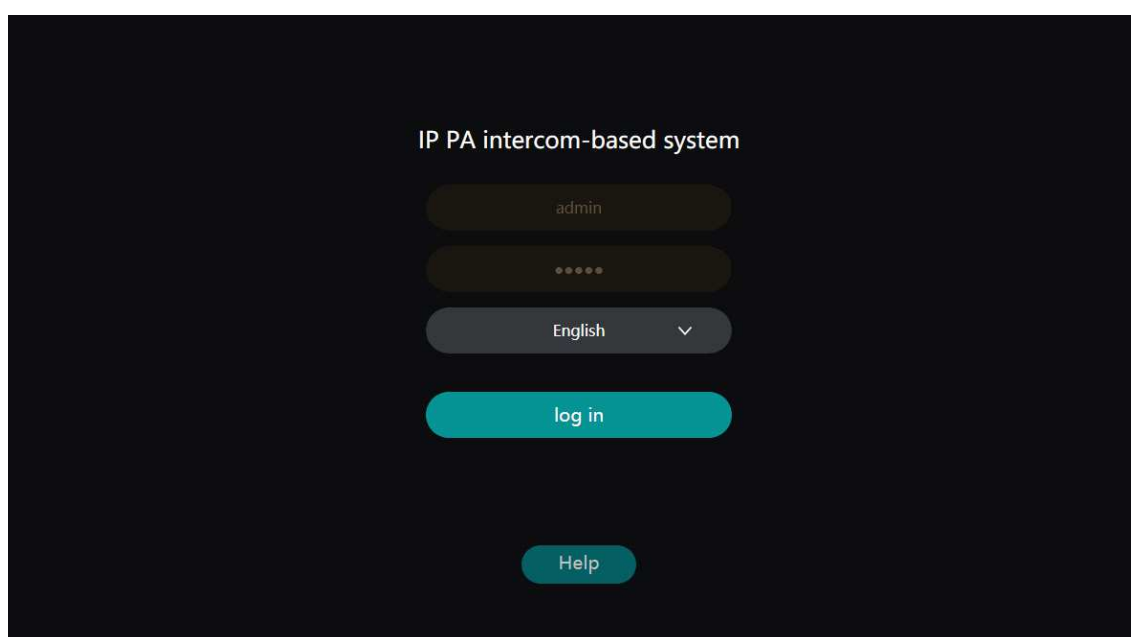


Quick System Configuration

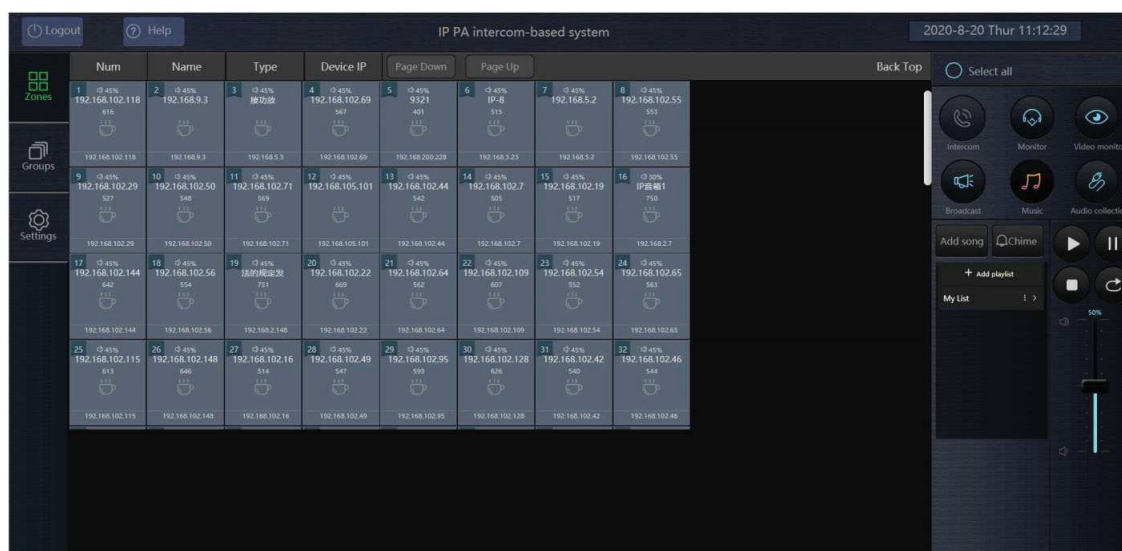
Server IP Settings

Log In

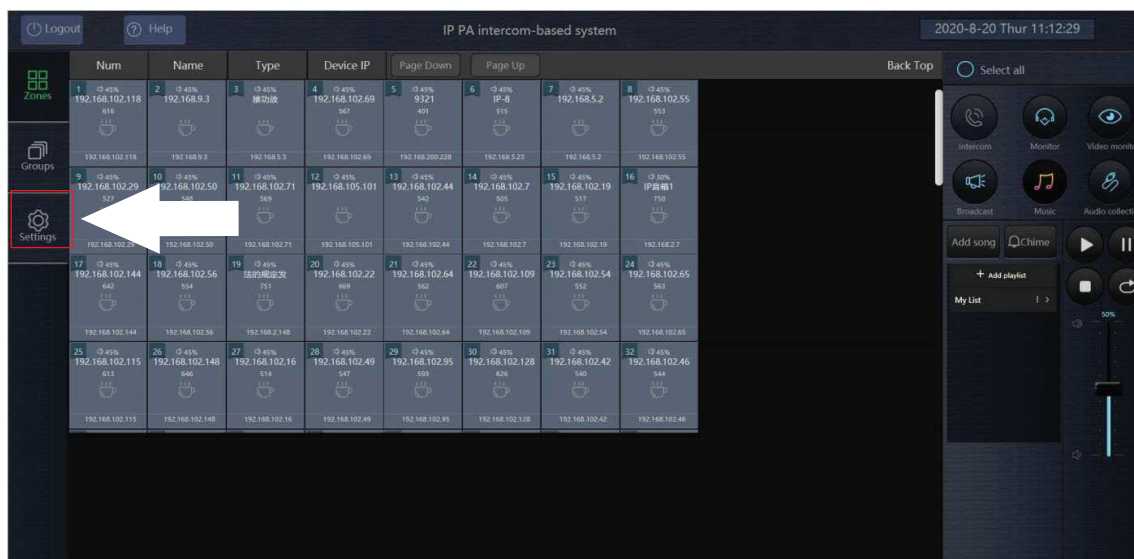
After booting up, the server will automatically enter the Login interface. Enter the default account and password and then click Login to enter the main interface of the server. The user can double click the "IP PA Intercom-based System" icon on the system desktop to open the browser again if it has been closed accidentally. Click the "Help" button to view the help file. (The default account: admin, password: admin)



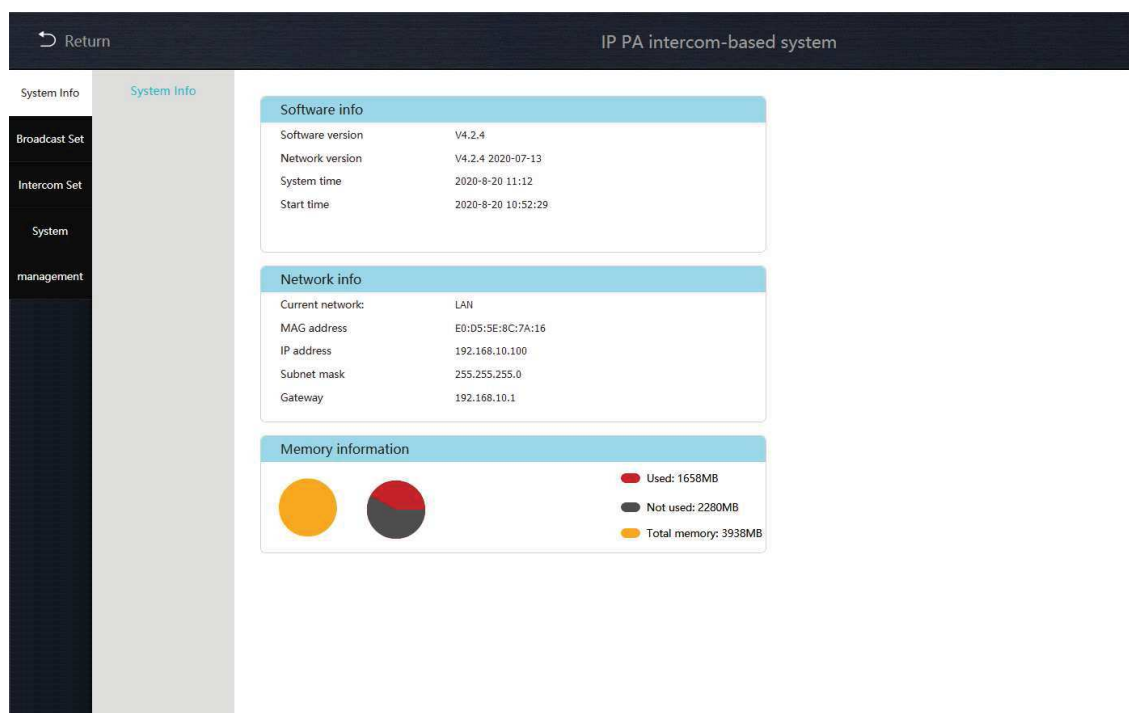
Enter the main interface.



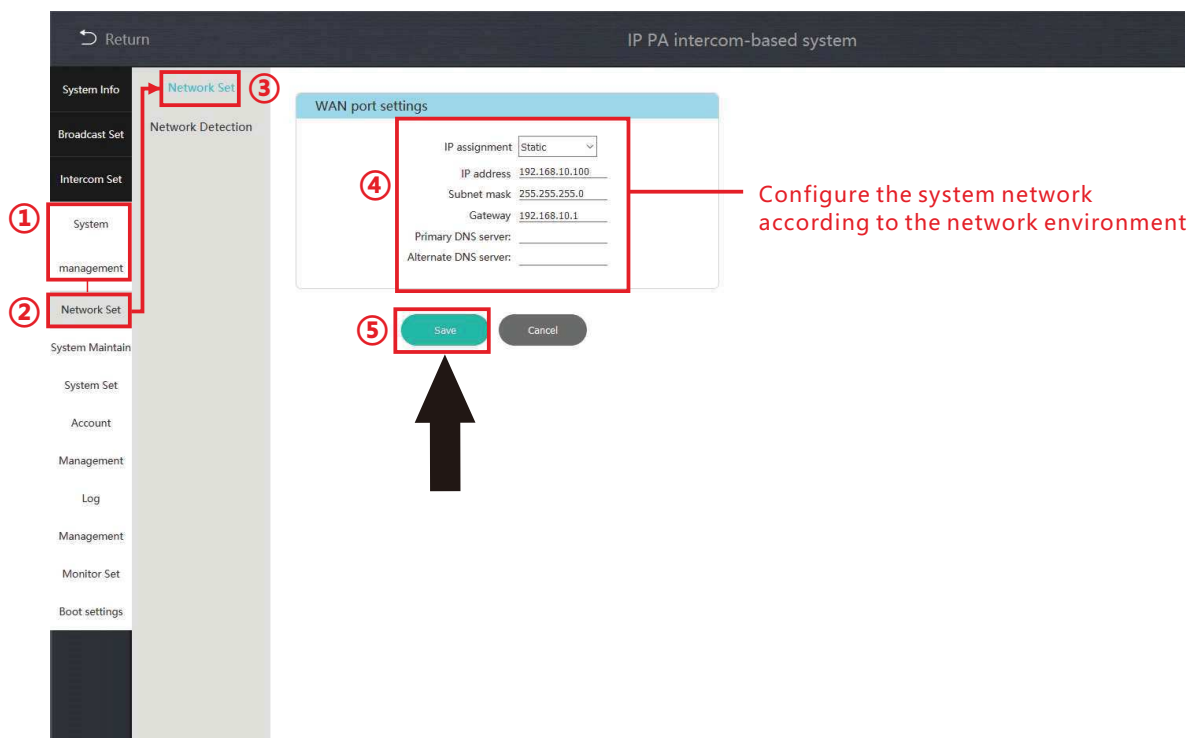
Click Settings.



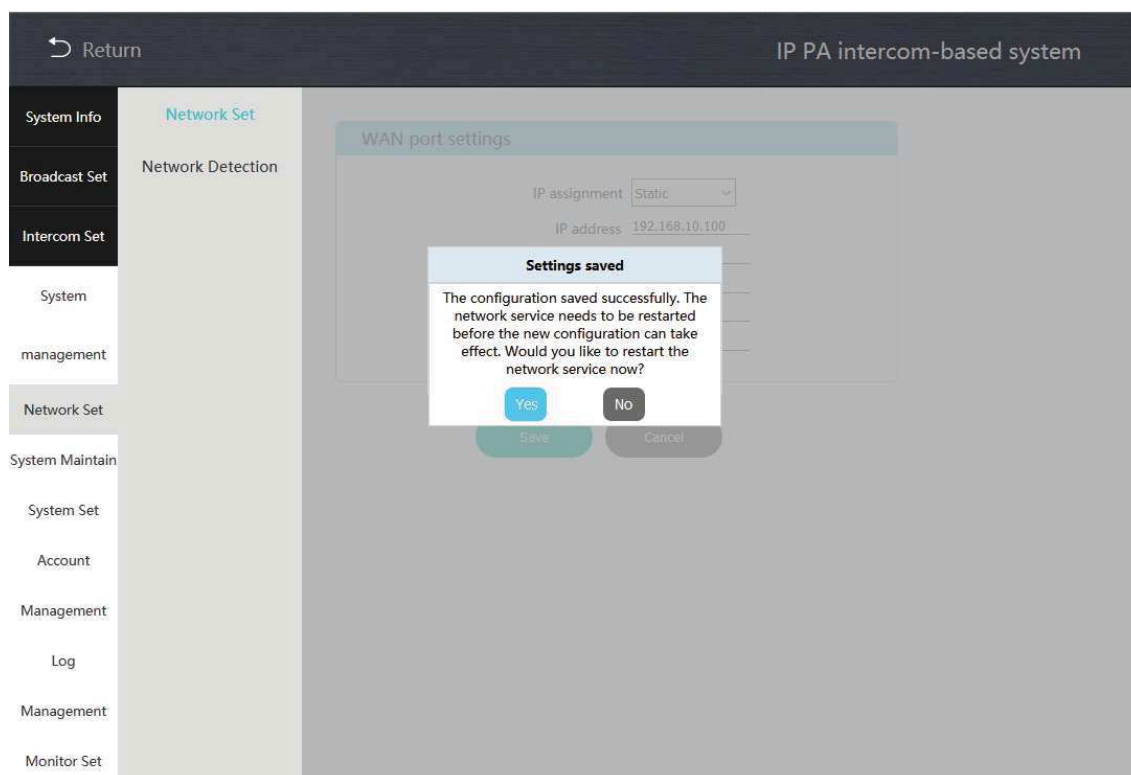
Enter the Settings interface to view the System Information.
(The default IP: 192.168.10.100)



Click “System management - Network Set -WAN port settings” to set the system network, and then click “Save” .



Click “Yes” in the pop-up tip of Restart to become effective and wait for the restart.



After restart, please check whether the network information has been changed successfully. If not, please follow the Step 5 to modify again.

The screenshot displays the 'IP PA intercom-based system' management interface. On the left is a sidebar with navigation options: 'System Info', 'Broadcast Set', 'Intercom Set', 'System', and 'management'. The 'System Info' section is active, showing three panels: 'Software info', 'Network info', and 'Memory information'. The 'Network info' panel is highlighted with a red rectangle. A red arrow points from the text 'Check whether the network info has been changed successfully' to this panel.

Software info	
Software version	V4.2.4
Network version	V4.2.4 2020-07-13
System time	2020-8-20 11:12
Start time	2020-8-20 10:52:29

Network info	
Current network	LAN
MAG address	E0:D5:5E:8C:7A:16
IP address	192.168.10.100
Subnet mask	255.255.255.0
Gateway	192.168.10.1

Memory information

Used: 1658MB
Not used: 2280MB
Total memory: 3938MB

System VOIP Settings (Only for intercom projects or intercom paging stations across network segments)

In the Settings, click “Intercom Set - Status Display - Extension” to view the existing SIP accounts. If the default account can not meet the site requirements, it is required to do the following steps.

(The user should follow the steps below if no extension number when leaving the factory)

Extension	Status	Extension	Status	Extension	Status	Extension	Status	Extension	Status
400	●	401	●	402	●	403	●	404	●
405	●	406	●	407	●	408	●	409	●
410	●	411	●	412	●	413	●	414	●
415	●	416	●	417	●	418	●	419	●
420	●	421	●	422	●	423	●	424	●
425	●	426	●	427	●	428	●	429	●
430	●	431	●	432	●	433	●	434	●
435	●	436	●	437	●	438	●	439	●
440	●	441	●	442	●	443	●	444	●
445	●	446	●	447	●	448	●	449	●

Total: 401 Online: 97 Current call: 0 ● Idle ● Ringing ● Busy ● Hold ● Unavailable

Click “Intercom Set - Advanced configuration - Extension Set” to set the User extension number. The default limit for the user extension number section is 600.

Please note: The current VOIP settings have need to be activated!

New extension user default settings

SIP: ☒ NAT: ☒
 Voice code ☒ ulaw ☒ alaw ☒ G.722 ☒ G.726

Extension number parameters

User extension number -
 Meeting room number -
 Call queue number -
 Ringing group number -
 Paging group number -
 Auto operator ID -

If more user extension numbers are required, please click “Intercom Set - Basic settings - User Extension” to click “Batch create users” . (A maximum of 50 users for Batch create once)

The screenshot shows the 'IP PA intercom-based system' interface. On the left sidebar, the navigation menu is expanded to 'Basic settings', and 'User Extension' is highlighted. A red box and arrow point to 'User Extension' (labeled 3). Another red box and arrow point to 'Basic settings' (labeled 2). A third red box and arrow point to 'Batch create users' (labeled 4) in the bottom toolbar. The main area displays a table of user extensions with columns: Num, Name, Extension number, Port, Protocol, Dial access, and Option. The table lists 15 users with extension numbers 400 through 414. A red box highlights the 'Batch create users' button in the bottom toolbar.

Num	Name	Extension number	Port	Protocol	Dial access	Option
1	400	400	--	SIP	DialPlan1	Edit Delete
2	401	401	--	SIP	DialPlan1	Edit Delete
3	402	402	--	SIP	DialPlan1	Edit Delete
4	403	403	--	SIP	DialPlan1	Edit Delete
5	404	404	--	SIP	DialPlan1	Edit Delete
6	405	405	--	SIP	DialPlan1	Edit Delete
7	406	406	--	SIP	DialPlan1	Edit Delete
8	407	407	--	SIP	DialPlan1	Edit Delete
9	408	408	--	SIP	DialPlan1	Edit Delete
10	409	409	--	SIP	DialPlan1	Edit Delete
11	410	410	--	SIP	DialPlan1	Edit Delete
12	411	411	--	SIP	DialPlan1	Edit Delete
13	412	412	--	SIP	DialPlan1	Edit Delete
14	413	413	--	SIP	DialPlan1	Edit Delete
15	414	414	--	SIP	DialPlan1	Edit Delete

Set the number and password in the pop-up window of “Batch create users” and click “Save” .

The screenshot shows the 'Batch create users' pop-up window. The window has fields for 'Start extension:', 'End extensions:', 'Dial plan:', and 'Password:'. The 'Dial plan' is set to 'DialPlan1'. A red box highlights the 'Save' button. The background shows the same user extension table as the previous screenshot.

Click “Edit” to view the password and related settings of the user extension. (The default passwords of all SIP accounts:1234)

Return IP PA intercom-based system

Please note: The current VOIP settings have need to be activated!

	Num	Name	Extension number	Port	Protocol	Dial access	Option
<input type="checkbox"/>	1	400	400	--	SIP	DialPlan1	Edit Delete
<input type="checkbox"/>	2	401	401	--	SIP	DialPlan1	Edit Delete
<input type="checkbox"/>	3	402	402	--	SIP	DialPlan1	Edit Delete
<input type="checkbox"/>	4	403	403	--	SIP	DialPlan1	Edit Delete
<input type="checkbox"/>	5	404	404	--	SIP	DialPlan1	Edit Delete
<input type="checkbox"/>	6	405	405	--	SIP	DialPlan1	Edit Delete
<input type="checkbox"/>	7	406	406	--	SIP	DialPlan1	Edit Delete
<input type="checkbox"/>	8	407	407	--	SIP	DialPlan1	Edit Delete
<input type="checkbox"/>	9	408	408	--	SIP	DialPlan1	Edit Delete
<input type="checkbox"/>	10	409	409	--	SIP	DialPlan1	Edit Delete
<input type="checkbox"/>	11	410	410	--	SIP	DialPlan1	Edit Delete
<input type="checkbox"/>	12	411	411	--	SIP	DialPlan1	Edit Delete
<input type="checkbox"/>	13	412	412	--	SIP	DialPlan1	Edit Delete
<input type="checkbox"/>	14	413	413	--	SIP	DialPlan1	Edit Delete
<input type="checkbox"/>	15	414	414	--	SIP	DialPlan1	Edit Delete

Create a user Batch create users Batch modify users Display all Home Previous 1 Page Next Last Total: 27

System Info User Extension Broadcast Set Outbound Route Intercom Set FXO Trunk Line Status Display Dial Rule Basic settings VoIP Trunks Inbound call router Advanced configuration System management

Return IP PA intercom-based system

Please note: The current VOIP settings have need to be activated!

Edit

Basic Set

Name: 400 Password: 1234 Extension number: 400

Dial access: DialPlan1

VOIP settings

NAT ☒

Video coding

Video call ☒ ☒ H.261 ☒ H.263 ☒ H.264

Voice coding

Not allowed Allowed

Save Cancel

Dial access	Option
DialPlan1	Edit Delete
DialPlan1	Edit Delete
DialPlan1	Edit Delete
DialPlan1	Edit Delete
DialPlan1	Edit Delete
DialPlan1	Edit Delete
DialPlan1	Edit Delete
DialPlan1	Edit Delete
DialPlan1	Edit Delete
DialPlan1	Edit Delete
DialPlan1	Edit Delete
DialPlan1	Edit Delete
DialPlan1	Edit Delete
DialPlan1	Edit Delete
DialPlan1	Edit Delete
DialPlan1	Edit Delete

Next Last Total: 27

System Info User Extension Broadcast Set Outbound Route Intercom Set FXO Trunk Line Status Display Dial Rule Basic settings VoIP Trunks Inbound call router Advanced configuration System management

Terminal Network and SIP Settings

1 Terminal Network Settings

In the "Broadcast Set" interface, select the device that requires network settings, and then click the "IP settings" in the lower right corner.

The screenshot shows the "IP PA intercom-based system" interface. On the left, the "Broadcast Set" menu is highlighted with a red box and arrow 1. Below it, the "Device Management" option is highlighted with a red box and arrow 2. In the center, a table lists devices. The first device (Num 1) is highlighted with a red box and arrow 3. In the bottom right corner, the "IP settings" button is highlighted with a red box and arrow 4. Below the table, the "Device settings" section shows the "IP address" field set to 192.168.10.11. The "Advanced property settings" section shows the "IP settings" button highlighted with a red box and arrow 5.

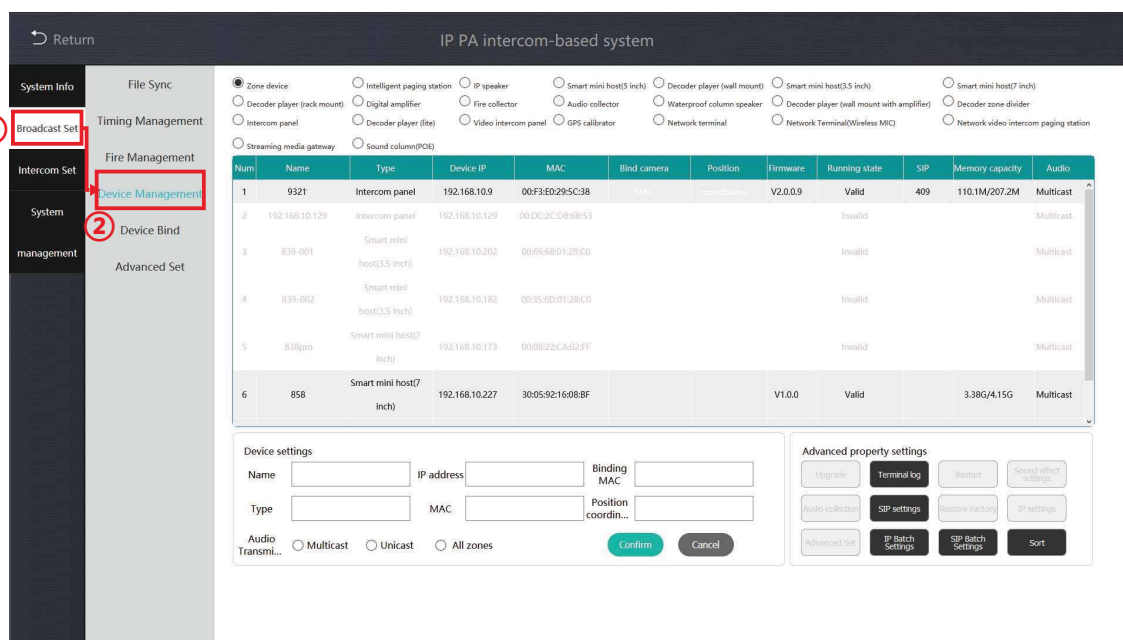
Num	Name	Type	Device IP	MAC	Bind camera	Position	Firmware	Running state	SIP	Memory capacity	Audio
1	192.168.10.11	Video intercom	192.168.10.11	00:A4:D2:39:D5:45	bc:bac2:6d:0f:b1		V2.0.0.9	Valid	410	111.7M/207.2M	Multicast
2	房管周风格	Intercom panel	192.168.10.9	00:F3:E0:29:5C:38			V2.0.0.9	Valid	409	110.1M/207.2M	Multicast
3	858-2	Smart mini host(7 inch)	192.168.10.227	30:05:92:16:08:BF			V1.0.0	Valid		3.38G/4.15G	Multicast
4	IP6	IP speaker	192.168.10.15	00:56:68:18:08:87			V1.4.7.2	Invalid		16.1M/37.0M	Multicast
5	IP3	IP speaker	192.168.10.12	00:66:68:00:30:37			V1.4.7.2	Invalid		3.9G/3.9G	Multicast
6	完全思考的	IP speaker	192.168.10.11	00:66:68:00:53:82			V1.4.7.2	Invalid		111.8M/207.2M	Multicast

Set the IP based on the network environment (The default IP: 192.168.10.128) in the pop-up window of "IP settings" and click "OK". (It requires a restart to become effective due to a certain network delay.)

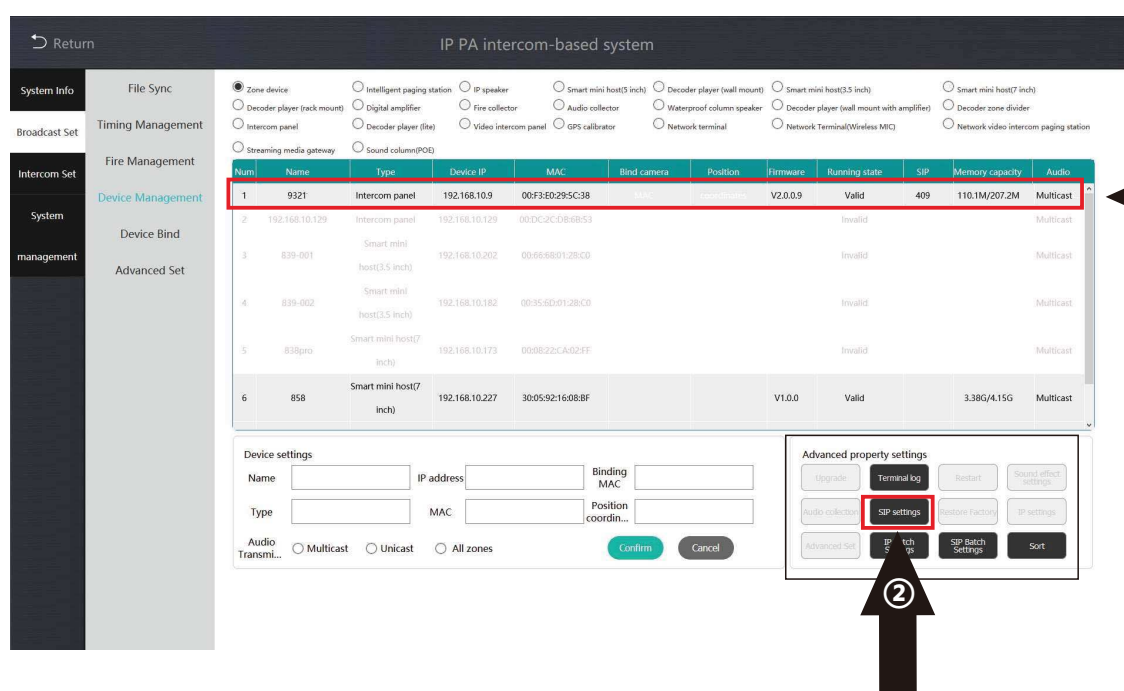
The screenshot shows the "IP settings" pop-up window. The "Get IP properties manually" option is selected. The "IP address" field is set to 192.168.10.11. The "Subnet mask" is 255.255.255.0. The "Default gateway" is 192.168.10.1. The "Preferred DNS" and "Secondary DNS" fields are empty. The "Confirm" button is highlighted with a red box and arrow 1.

2 Terminal SIP Settings (Only for intercom terminals or intercom paging stations across network segments to log in)

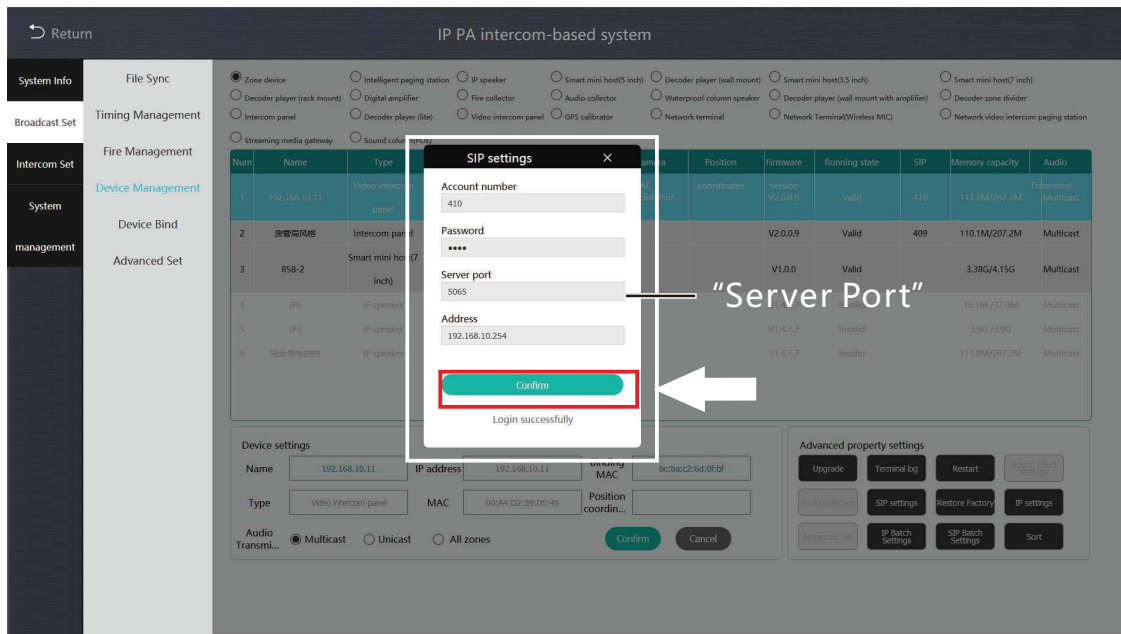
Click "Broadcast Set - Device Management" to enter the device management interface.



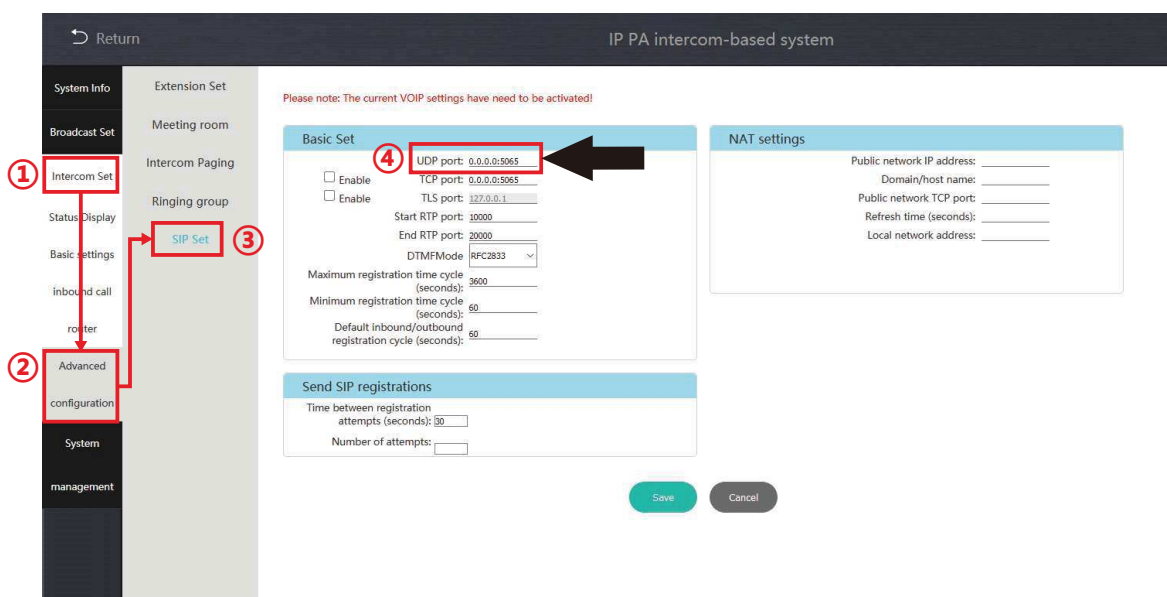
Select a device and click "SIP settings" in the lower right corner.



Set the SIP account and password in the pop-up window of "SIP settings" and click "OK". The default SIP segment is 400-999. The entered account number can not exceed the set limit, and there is no repeated SIP. (It requires a restart to become effective due to a certain network delay.)



(The "Server port" can be viewed and modified in "Intercom Set - Advanced configuration - SIP Set".)



The set SIP account will be displayed on the SIP when set successfully.

Return IP PA intercom-based system

System Info File Sync
Broadcast Set Timing Management
Intercom Set Fire Management
System Device Management
management Device Bind
Advanced Set

☒ Zone device
☐ Decoder player (rack mount)
☐ Intercom panel
☐ Streaming media gateway
☐ Intelligent paging station
☐ Digital amplifier
☐ Decoder player (line)
☐ Sound column(POS)
☐ IP speaker
☐ Fire collector
☐ Video intercom panel
☐ Smart mini host(5 inch)
☐ Audio collector
☐ GPS calibrator
☐ Network terminal
☐ Decoder player (wall mount)
☐ Waterproof column speaker
☐ Network Terminal(Wireless MIC)
☐ Smart mini host(3.5 inch)
☐ Decoder player (wall mount with amplifier)
☐ Network Terminal(Wireless MIC)
☐ Smart mini host(7 inch)
☐ Decoder zone divider
☐ Network video intercom paging station

Num	Name	Type	Device IP	MAC	Bind camera	Position	Firmware	Running state	SIP	Memory capacity	Audio	
1	192.168.10.11	Video intercom panel	192.168.10.11	00:A4:D2:39:D5:45	MAC bcbac2-6d-0f-bf	coordinates	version V2.0.0.9	Valid	410	409	110.1M/207.2M	Multicast
2	房警用广播	Intercom panel	192.168.10.9	00:F3:E0:29:5C:38			V2.0.0.9	Valid		110.1M/207.2M	Multicast	
3	858-2	Smart mini host(7 inch)	192.168.10.227	30:95:92:16:08:BF			V1.0.0	Valid		3.38G/4.15G	Multicast	
4	IP6	IP speaker	192.168.10.15	00:66:68:18:88:87			V1.4.7.2	Invalid		16.1M /37.0M	Multicast	
5	IP3	IP speaker	192.168.10.12	00:66:68:00:30:37			V1.4.7.2	Invalid		3.9G /3.9G	Multicast	
6	完全静音的	IP speaker	192.168.10.11	00:66:68:00:53:82			V1.4.7.2	Invalid		111.8M/207.2M	Multicast	

Device settings

Name: 192.168.10.11 IP address: 192.168.10.11 Binding MAC: bcbac2-6d-0f-bf

Type: Video intercom panel MAC: 00:A4:D2:39:D5:45 Position coordin... No bound

Audio Transmi... ☒ Multicast ☐ Unicast ☐ All zones Confirm Cancel

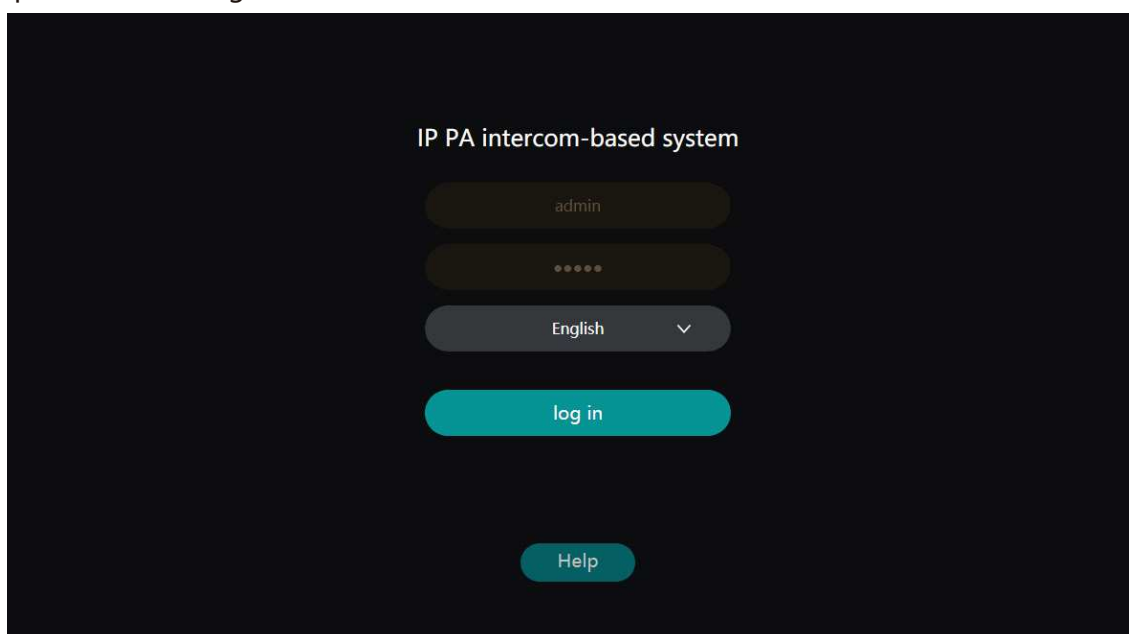
Advanced property settings

Upgrade Terminal log Restart Sound effect settings
 Audio collection SIP settings Restore Factory IP settings
 Advanced Set IP Batch Settings SIP Batch Settings Sort

System Instructions

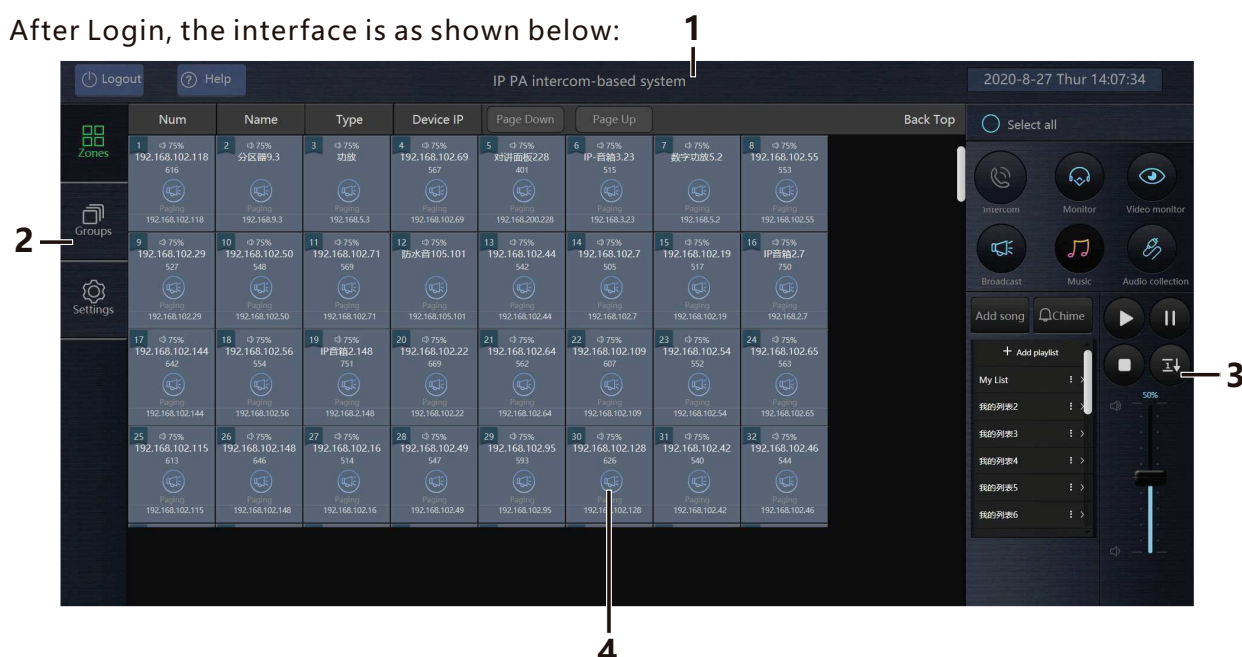
System Login

After booting up, the server will automatically enter the Login interface of the IP PA Intercom-based System. In this case, you need to manually enter the account and password **(The default administrator account and password: admin. You can add an operator after logging in the administrator account, and the operator has no setting permissions.)** to log in the IP PA Intercom-based System. For remote login control, you can use another computer to open a browser program (It is required to log in through the Firefox browser for remote login on other computers, while the IE browser does not support login.) under the same network, enter the IP address: **192.168.10.100:9999 (the server's default IP)** in the address bar to access the IP PA Intercom-based System, and then enter the account and password for login.



Main Interface

After Login, the interface is as shown below:



The main interface is divided into the following four areas:

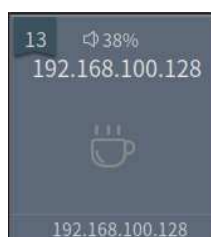
1. Title bar: Display the system name, user logout.
2. Main menu bar: Include zones, groups, and settings.
3. Function area: Intercom, monitor, video monitor, broadcast, music and audio collection function buttons, audio file playlists and playback control bar.
4. Zone / Group display area: Display real-time status information of zone or group devices.

Zones

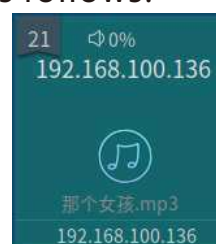
The display area of the zone will show the following states: selected, unselected, unused, idle, fire alarm, music playing, timing, audio collection, ring bell, broadcast (intercom, broadcast, monitor), network radio broadcast and other states. The displays of different states are as follows:



Unused



Online Idle



Selected



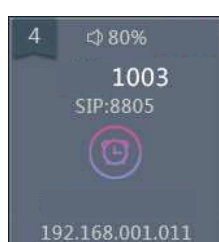
Fire Alarm



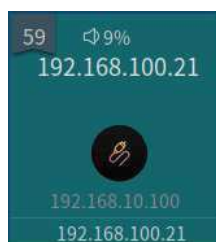
Music Playing



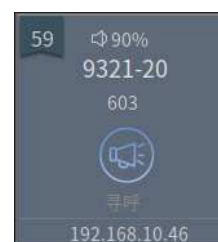
Chime Trigger



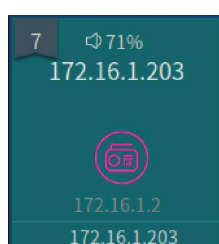
Timing Trigger



Audio Collection



Broadcast



Radio Broadcast

Function Area

The interface of the function area is as shown below:



1. Main Function Buttons. Intercom, monitor, video monitor, broadcast, music and audio collection function buttons. After selecting the zone to be operated, click the desired function button, such as “Broadcast” to start broadcasting to the selected zone.

2. Select All Zone: Can select or cancel all zones with one click. The number of selected zone will be displayed after all are selected.

3. Function Control Area: Display the current intercom, monitor, video monitor, broadcast, music list, audio collection list and network radio.

4. Play Control Area: Can play / pause the audio, adjust volume, add audio files, and select play modes.

Main Function Buttons



Before carrying out the function operation, the device needs to set the SIP account and IP address, and the SIP account setting is on the Settings -- Broadcast set -- Device management -- SIP account. **(Please refer to the page 40 for the SIP account setting. The IP address is set as above.)**

1. Monitor:

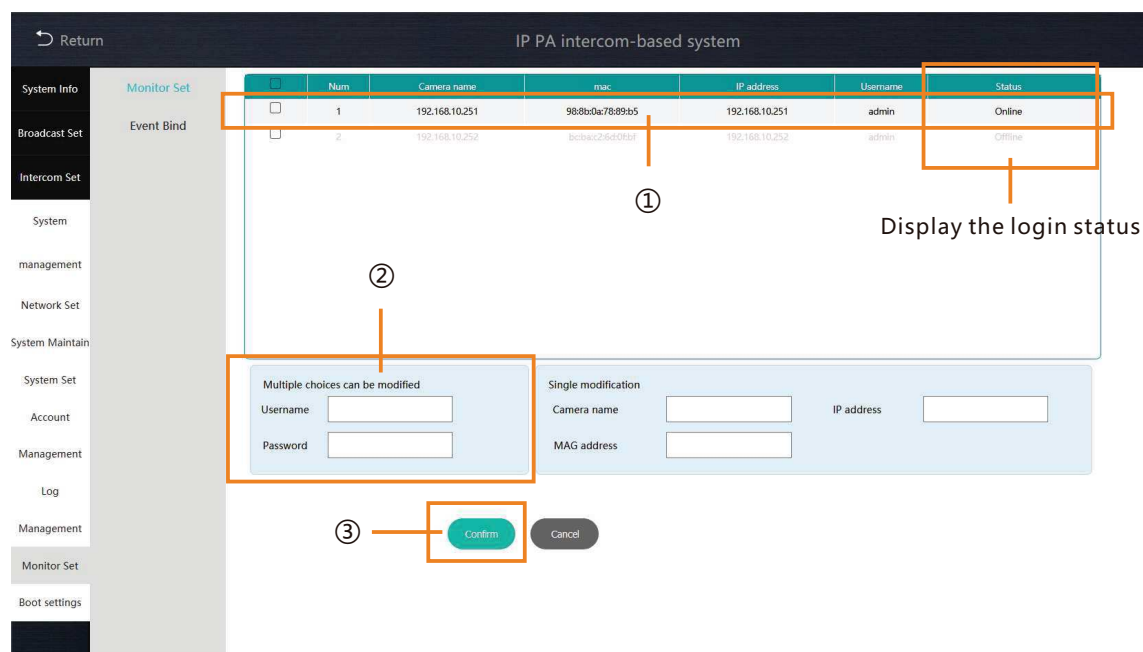
Program source monitoring: It is to monitor the ongoing program in the zone, like music and text broadcast. It is required to bind a device in the settings for monitoring. Bind a device in the "Monitor device binding" . **(Please refer to page 45 for device binding details.)**



2. Video Monitor: Before video monitoring, please log in the monitor device in “System management”-“Monitor Set”, and bind the device MAC in “Broadcast Set”-“Device Management”, and then select the zone with bound MAC.

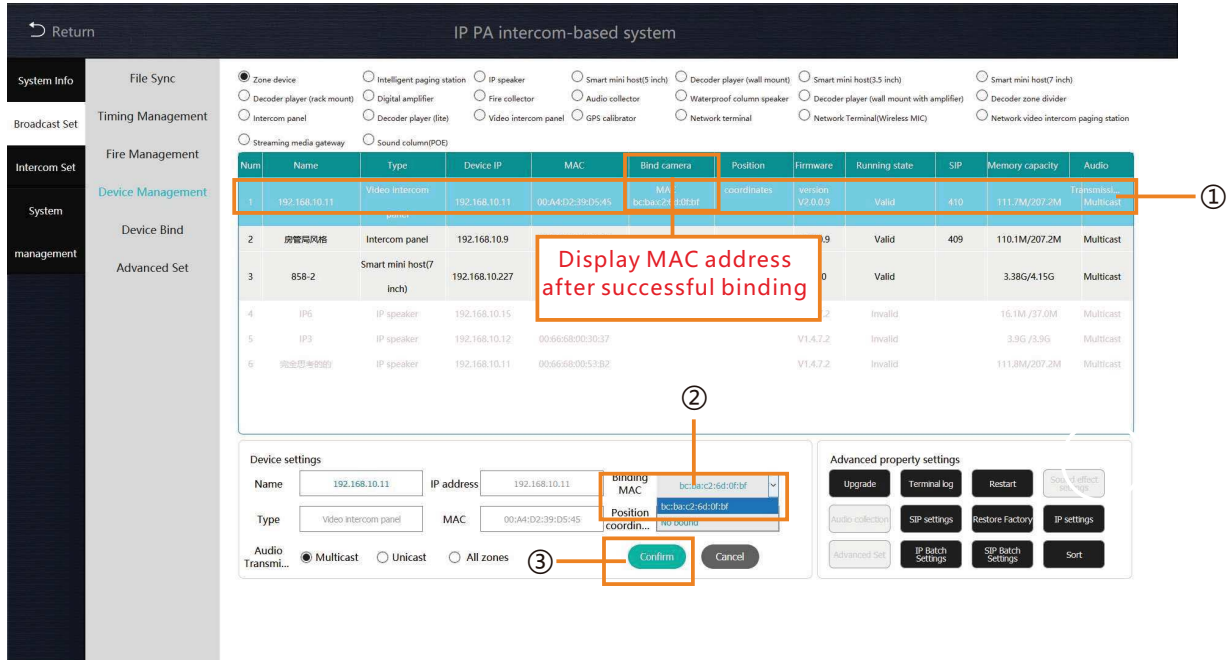
Log in a camera:

Select the connected monitor device, enter the username and password and click OK. If "Logged in" is displayed in the Status, the login is successful, and if "Online" is displayed, the login is unsuccessful. Please check whether the username and password are correct.



Bind a device:

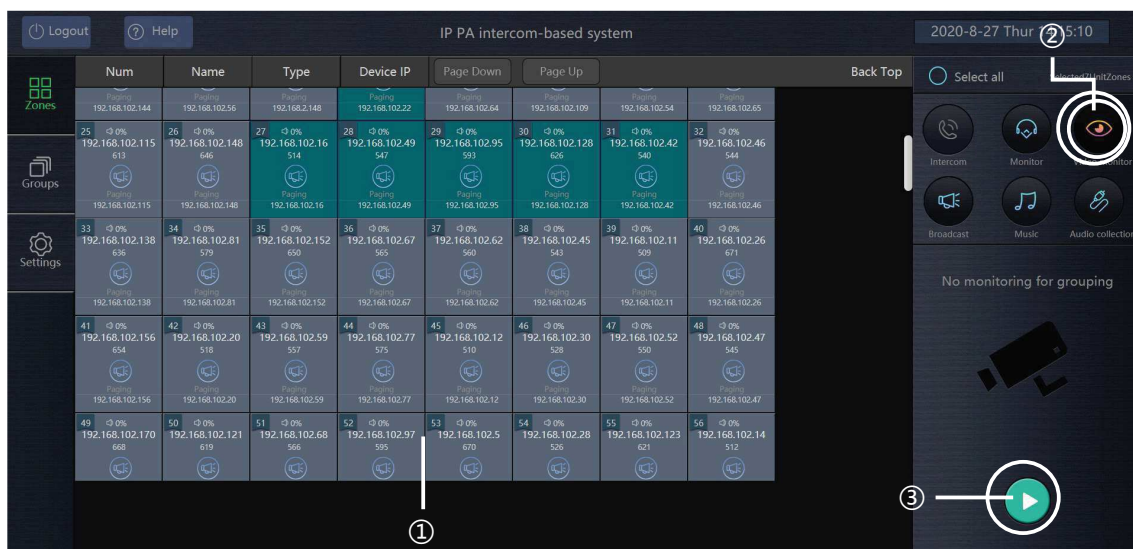
Select a device, then select a logged-in monitor device at "Binding MAC" in "Device Management", and click Confirm to display the MAC address in "Bind camera MAC".



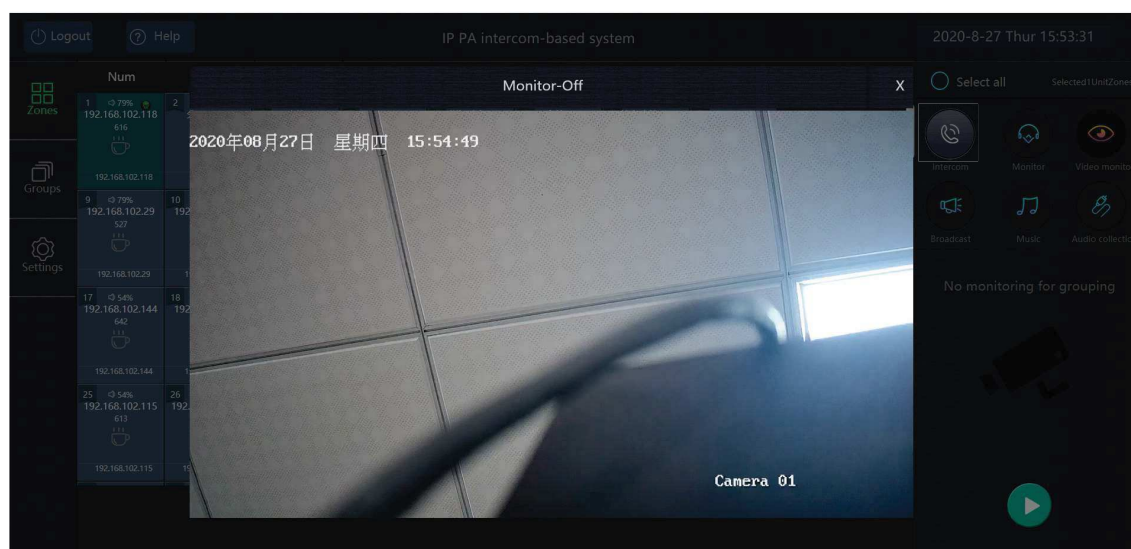
Start Video Monitor:

In the main interface, click the Video Monitor button on the right to display the function interface, and then click the Start button to open the video monitoring window.

Note: When performing zone video monitoring, you can only operate on a single zone at a time, and multiple zones or groups are not allowed.



Pop up video monitoring window.

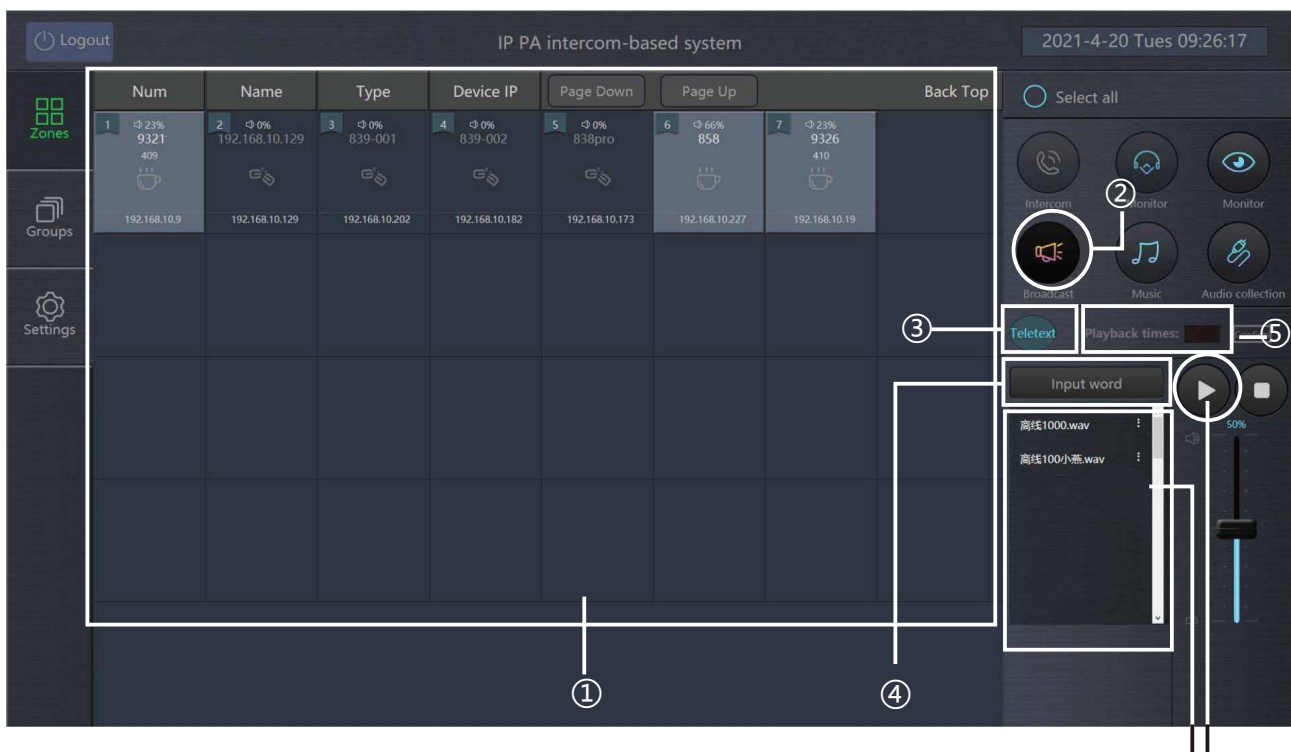


3. Broadcast:

Timing Broadcast: Please refer to P38 to set a timing point in the "Timing Management" to realize timing broadcast.

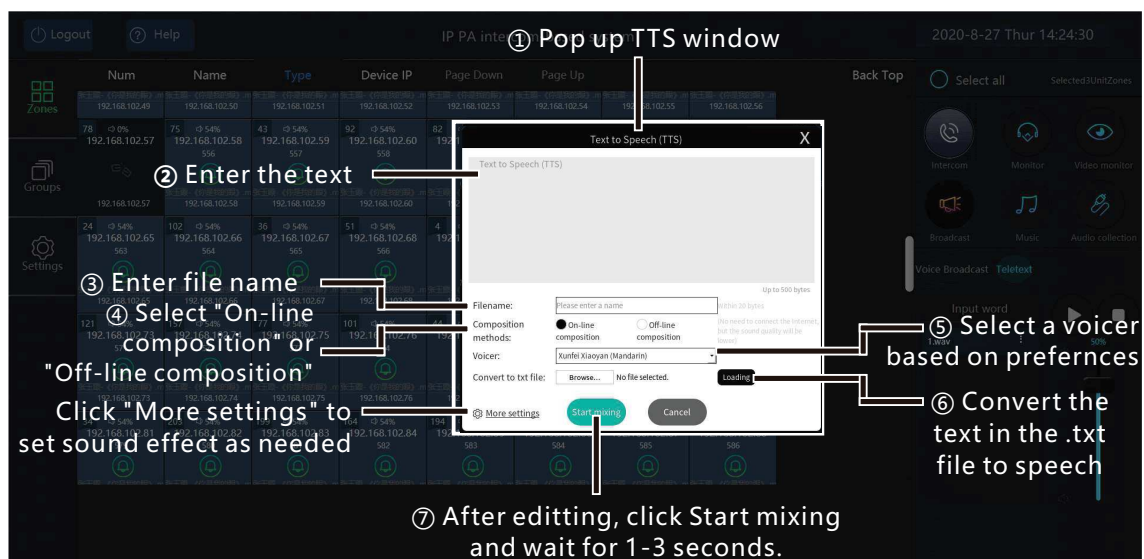
Fire Broadcast: Used with a fire collector to trigger fire alarms automatically.

Teletext: Click the "Broadcast" button in the function area, select "Teletext", click "Input word" to pop up a Text to Speech (TTS) window for entering the text, (The text box in the Input word can be entered **up to 2000 characters online or 5000 characters offline**, and the file name can be entered up to **20 bytes**.) and file name, select "On-line composition" or "Off-line composition" ("**On-line composition**" requires networking, with a good sound quality, while "**Off-line composition**" does not require networking, but with a lower sound quality), and then click "Start mixing". After waiting for 1-3 seconds, the mixed voice can be selected in the playlist. After entering words, your voice file will be displayed in the playlist. Select and click the Start button above the volume slider to start the teletext. (Select a "Voicer" as needed, load .txt file to speech, and set sound effect in the "More settings".

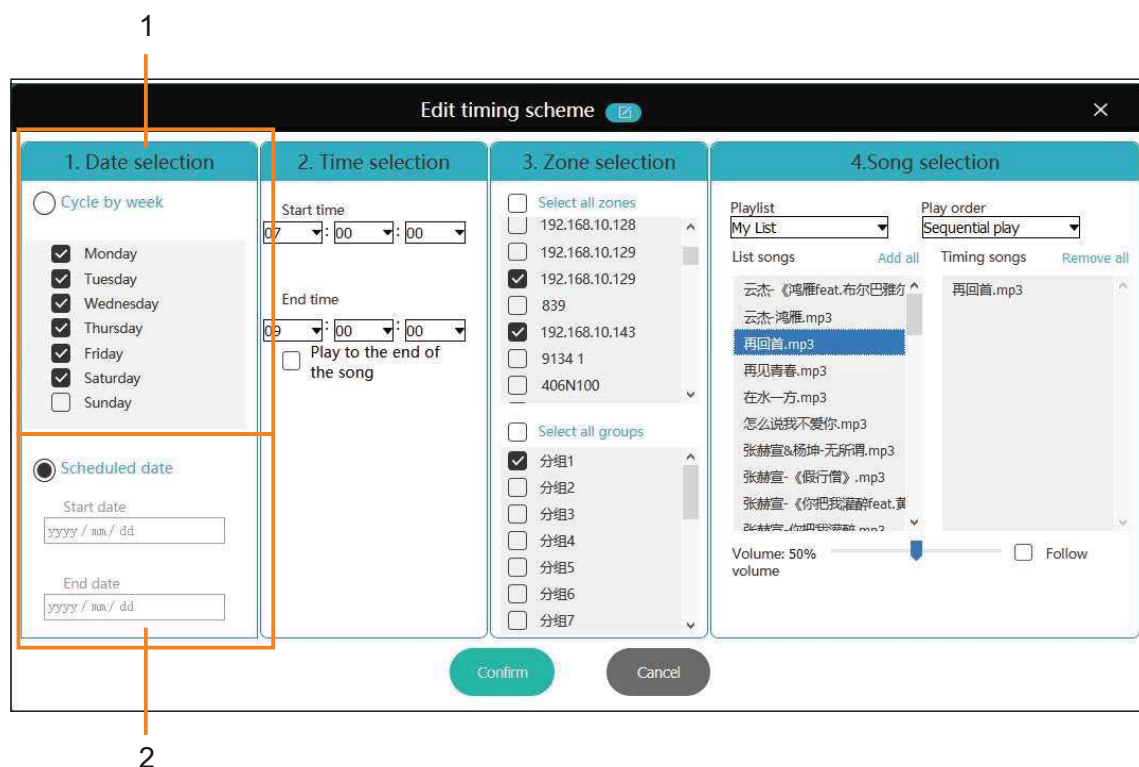


Select a voice file and click "Play" to broadcast the teletext.

Pop up a Text to Speech (TTS) window.



Timing Broadcast (Please refer to P38 for timing point settings)



1. Cycle by date: Repeat on a weekly basis.
2. Scheduled date: Cycle within a scheduled date or several days.

Fire Broadcast



Select one or more zones

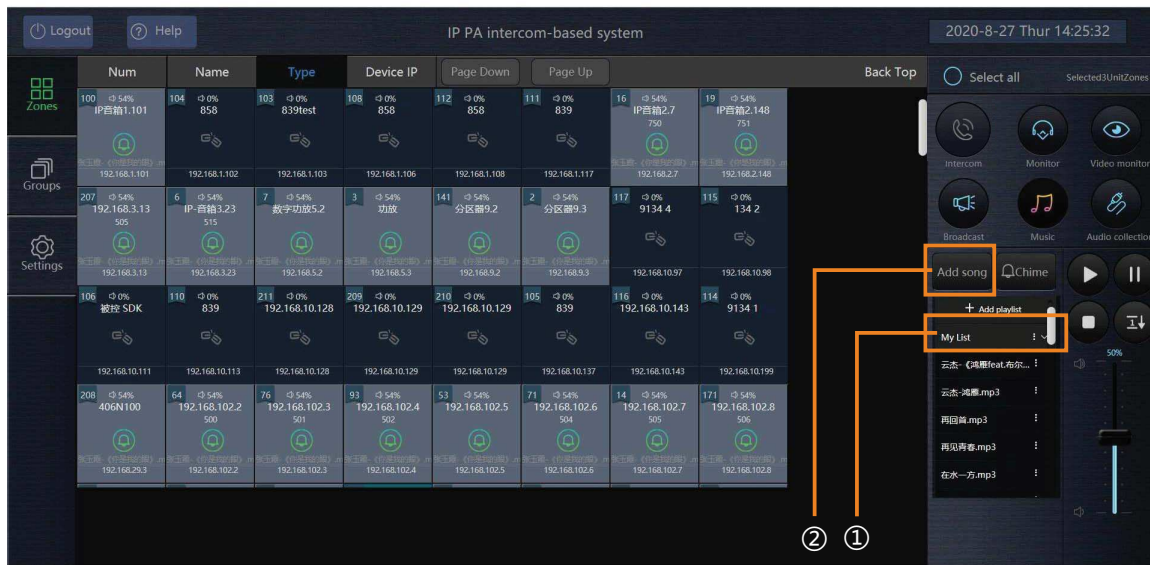
Trigger fire alarm

Start fire broadcast
(Used with a fire collector)

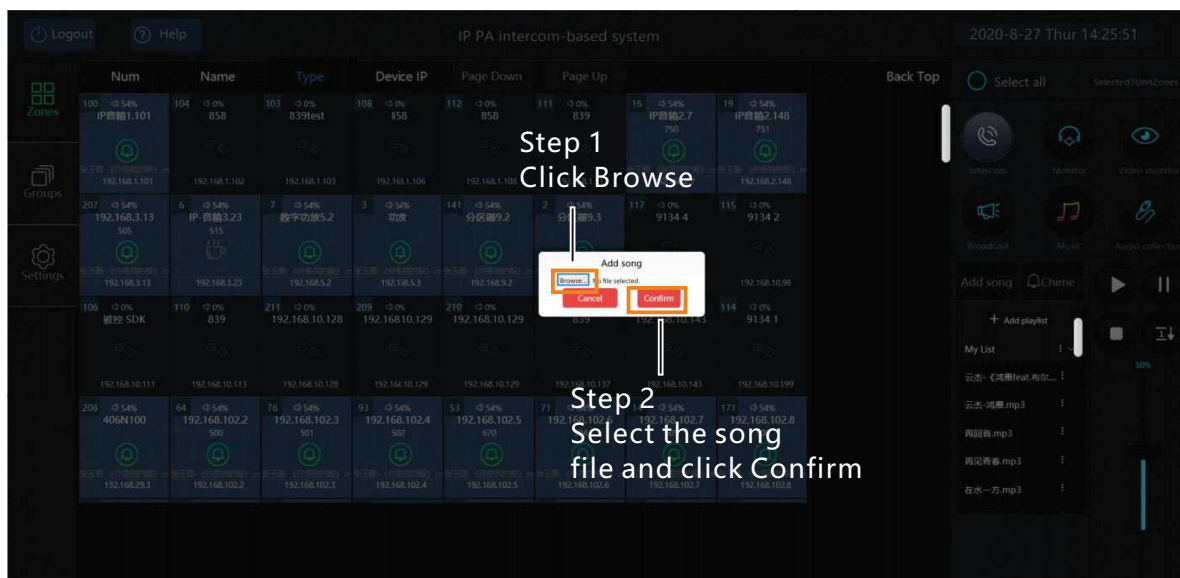
4. Music: Select one or more zones and click the Music button, and then the song list will be displayed on the right, where you can add songs and song lists. Click the song list name to expand the song list. In the three-point menu of the song list, you can rename and delete the song list. In the three-point menu of the song on the right, you can set it as a chime, play and delete it. Select and click the Start button to play the music.

Add music

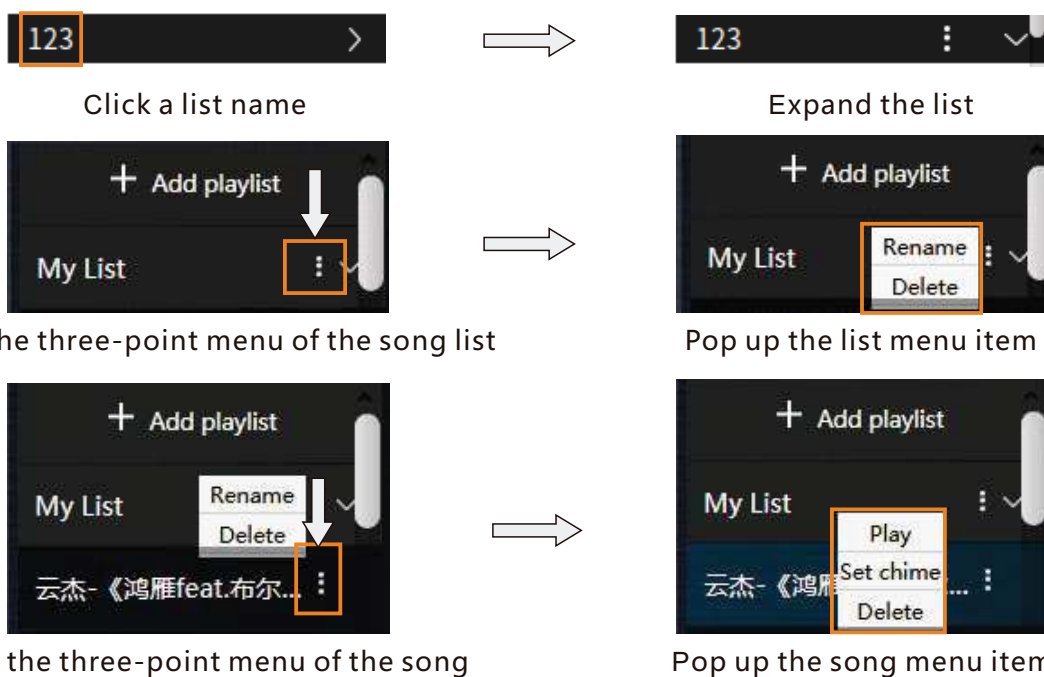
Click the song list name to expand the list, click the "Add song" button to pop up the Add song window.



Click "Browse" to pop up file browser window, select the song file in the USB flash disk or other transmission tool. (In the centralized mode, supported file formats: mp3, wav; in the distributed mode, supported file formats: mp3, wma, aac, wav, flac).

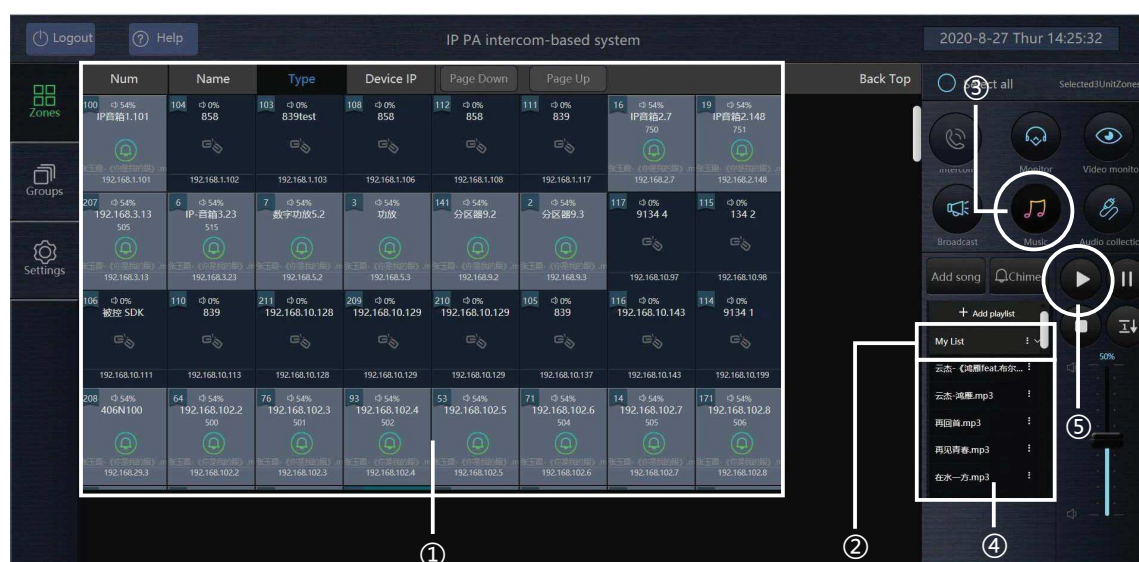


Music List

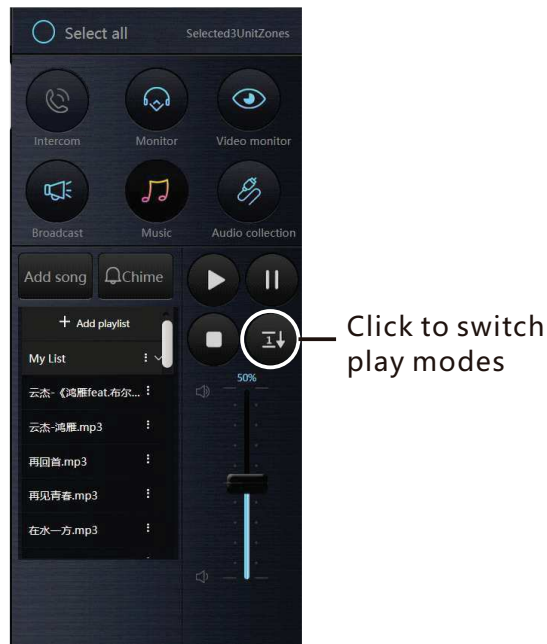


Play music

Select one or more zones, select the music file to be added, and click OK.
(Supported song file formats: MP3, WAV)



Click the Play mode button to switch among 5 play modes.



Play mode icons



Single Play



Single Cycle



Order Play



Loop Play



Random Play

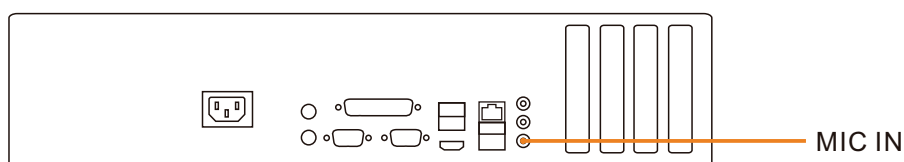
5. Audio Collection:

The local audio signal can be transmitted to the network device for playing through the audio collection card connected in the server (Only one "MIC IN" interface. If more needed, please purchase separately.) or the network audio collector in the network. And play the network radios and audio wireless push in zones through the streaming media gateway connected to the server.

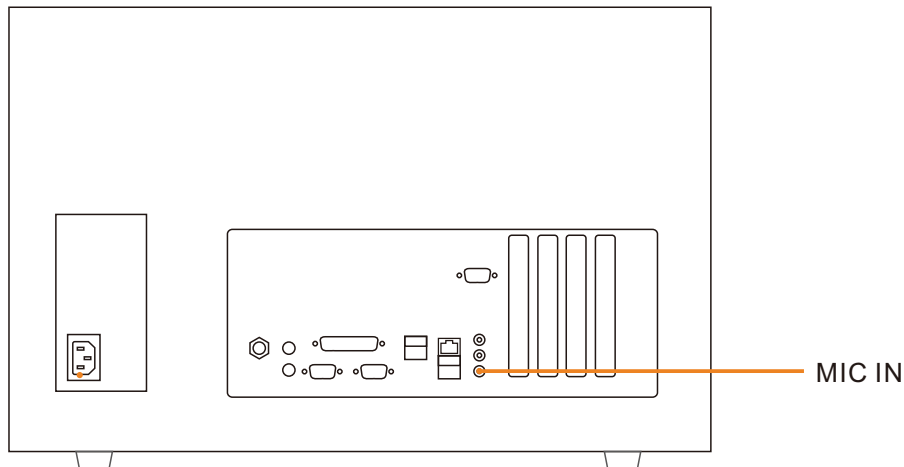
Use the local audio collection card for voice broadcast:

There is a "MIC IN" interface on the rear panel of 2U and 7U, which can be connected to an external microphone for voice broadcast.

Rear Panel (2U)



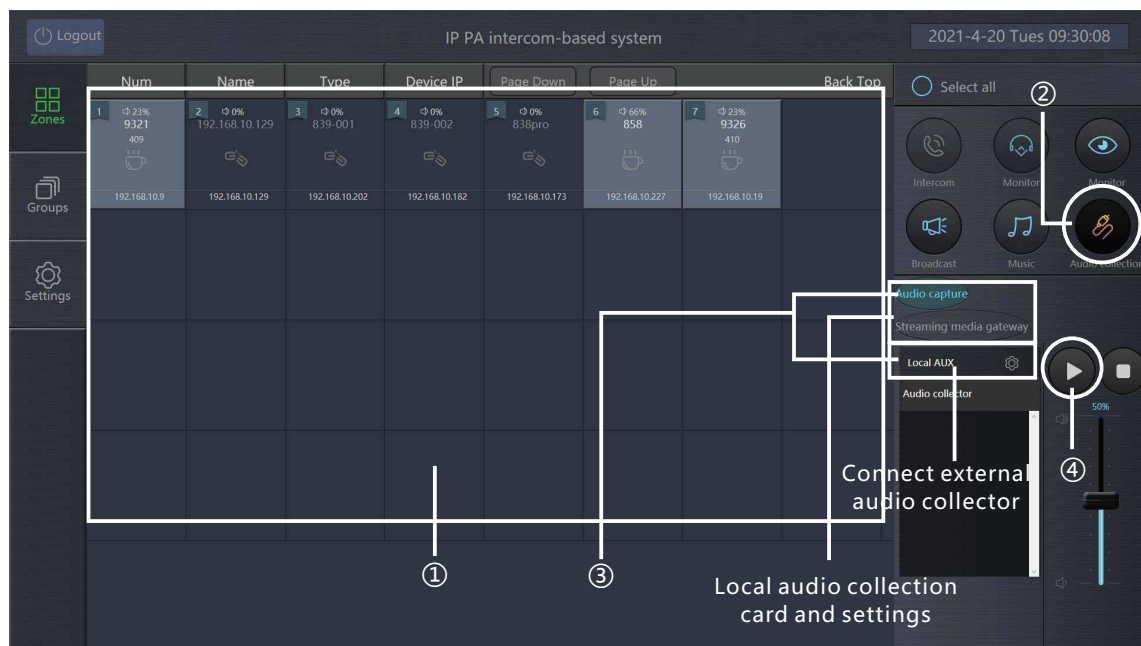
Rear Panel (7U)



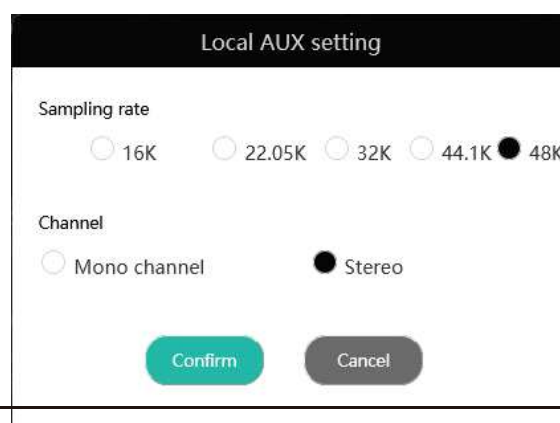
Operations as follows:

Select one or more zones, click "Audio Collection" in the function area, select Audio collector (**If need to use the local audio collection card for voice broadcast, please select "Local AUX".**) and click Start button.

Click the gear icon on the right of "Local AUX" to set sampling rate and audio channel of the audio collection card.

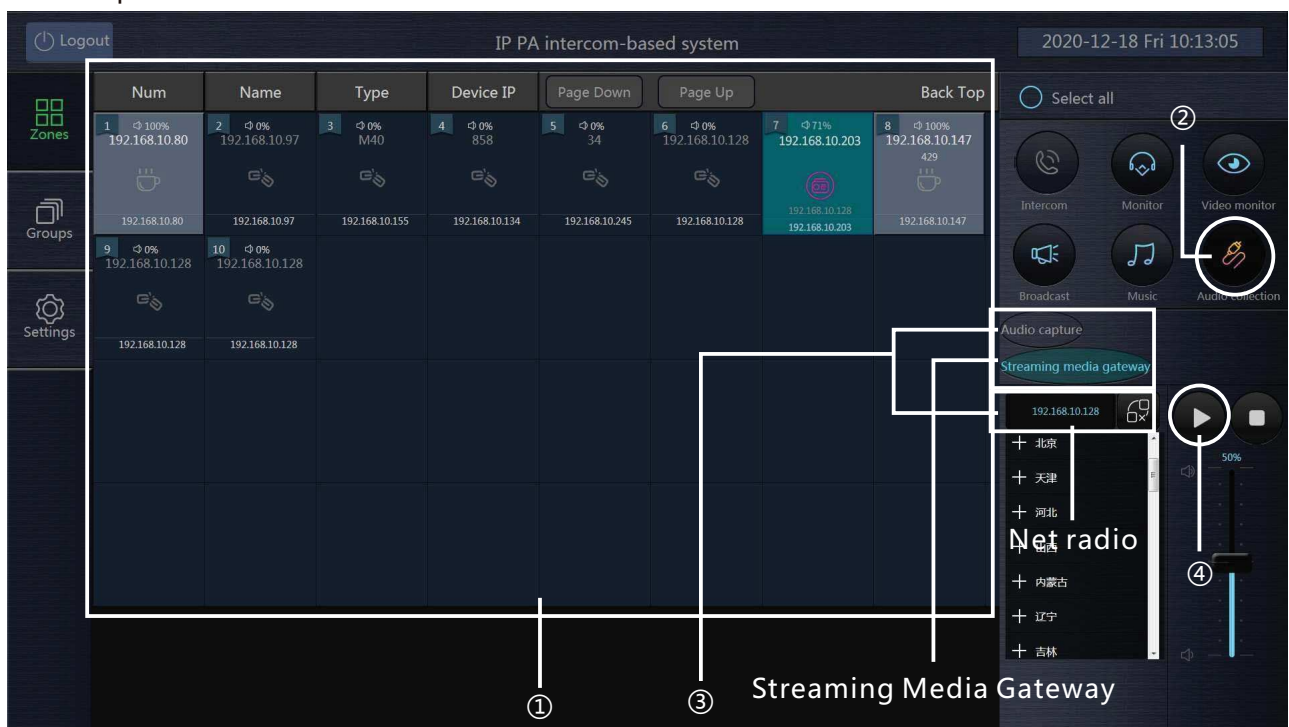


Audio collection card settings



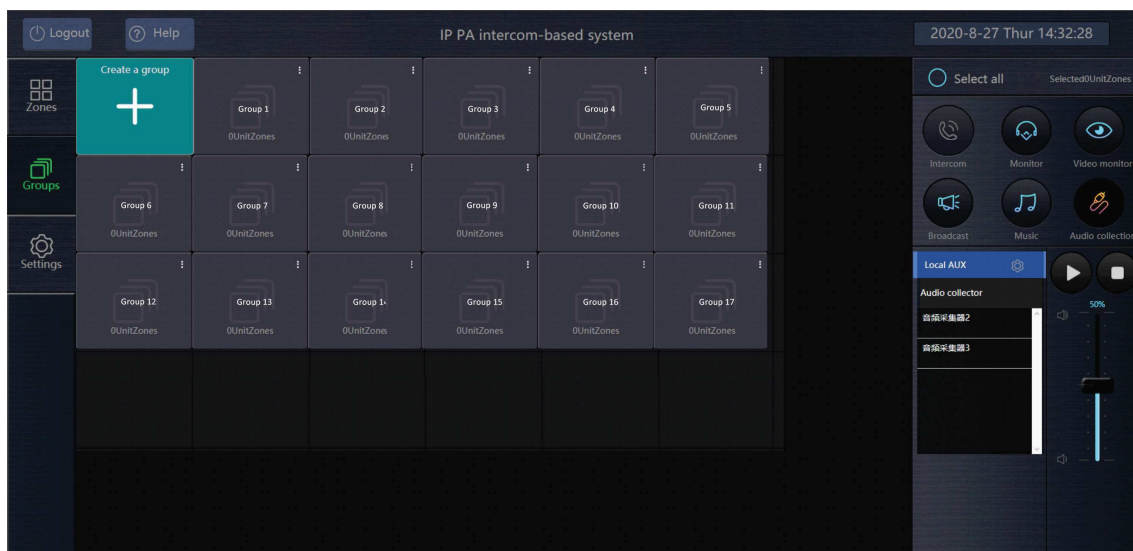
When playing a network radio, select one or more zones, click the "Streaming Media Gateway" in the "Audio Collection" item on the right to display a list of corresponding streaming media gateways, select the network radio station in the streaming media device in the list, and click the "▶" Button to play the radio, and then the "📻" icon and the name of the radio station currently being played will appear in the zone; click the "⏏" button on the streaming media gateway device interface to stop the current radio.

When there is a network radio being played in the zone, the wireless push is also supported. First, connect IOS and Android devices to the main server network, and then add trusted devices (IOS and Android devices) in the "Settings - Broadcast Settings - Device Management - Streaming Media Gateway - Advanced Settings". Please refer to the device manual for details. After setting, open the music APP of IOS and Android devices to find the wireless push function.

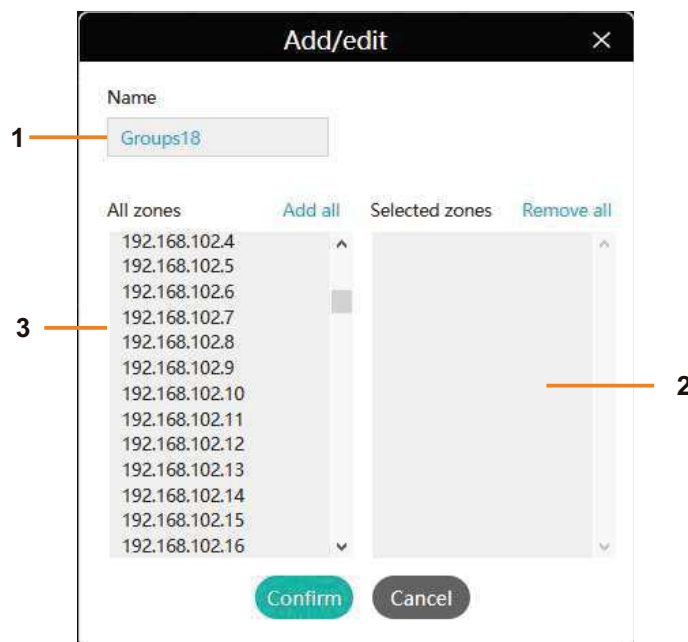
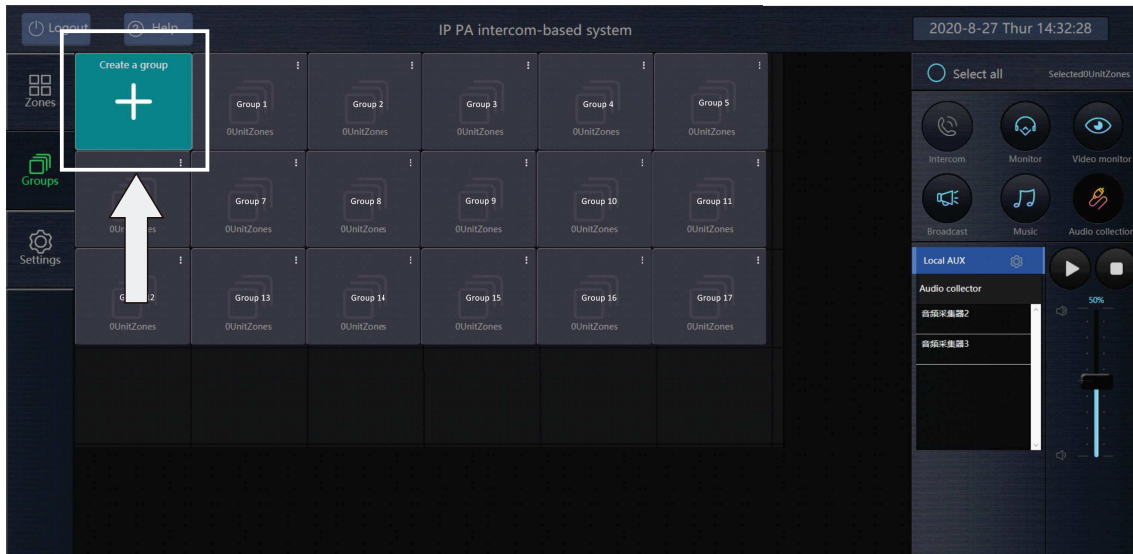


Groups

Groups display interface, as shown below:



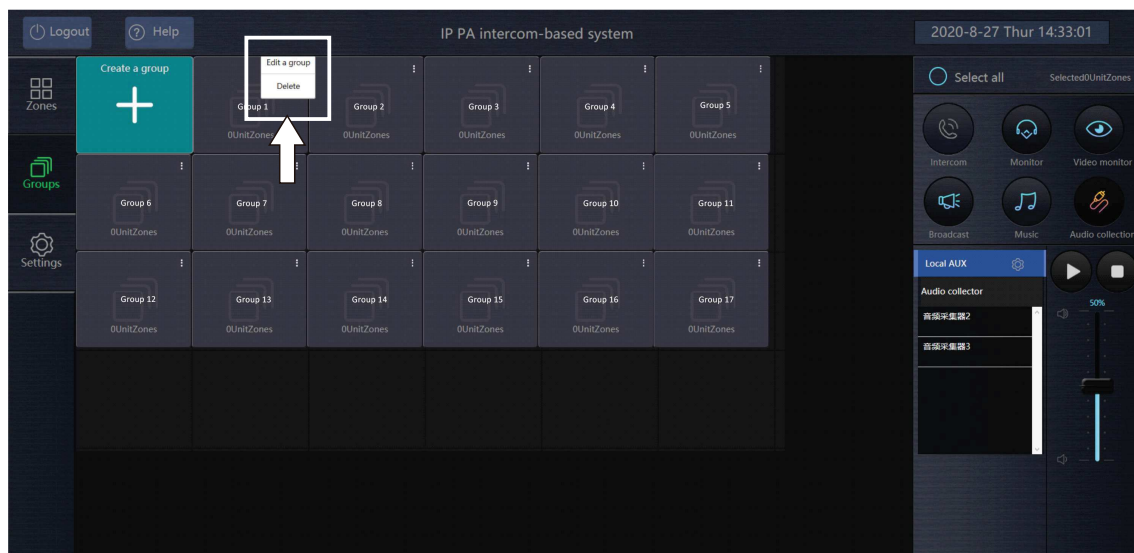
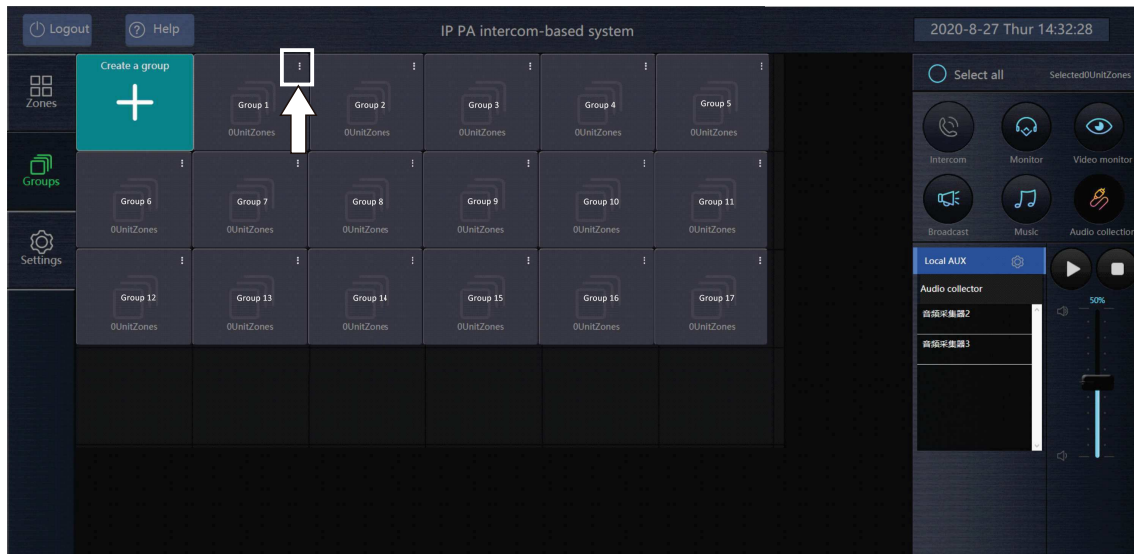
In the Groups, you can include zones into groups, create and edit groups. Click Create a group, the interface details are as shown below:



Create/Edit a Group

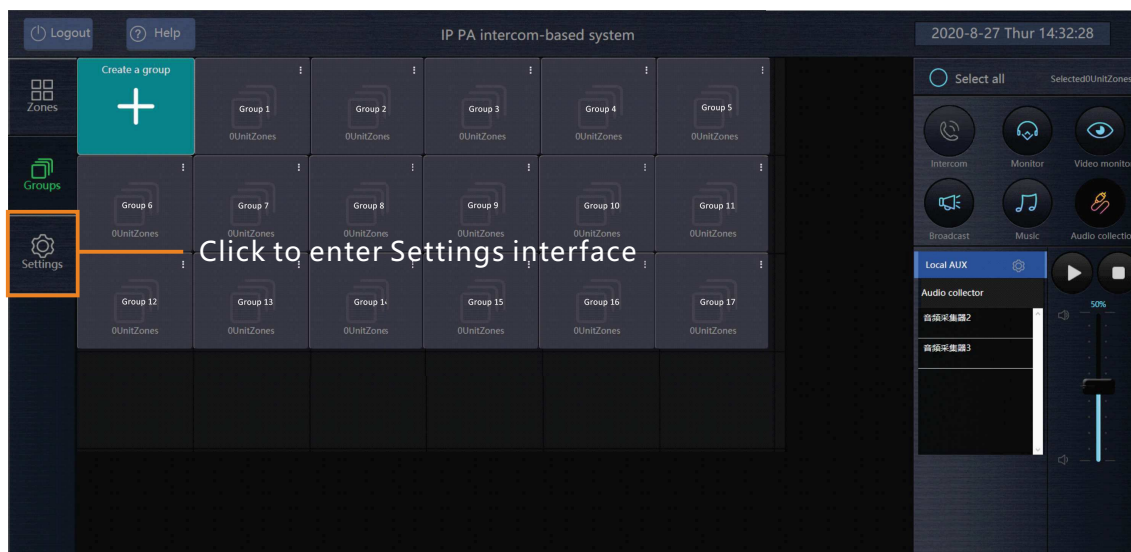
1. Set the group name.
2. Selected zones area. The current area is to display the selected zones.
3. All zones list area. Can add the selected zone to the selected zones area.

Click the three-point menu in the upper right corner of the group to pop up Edit and Delete a group.



Settings

The Settings interface includes System Info, Broadcast Set, Intercom Set, and System management. Different options have their corresponding functions.



System Info

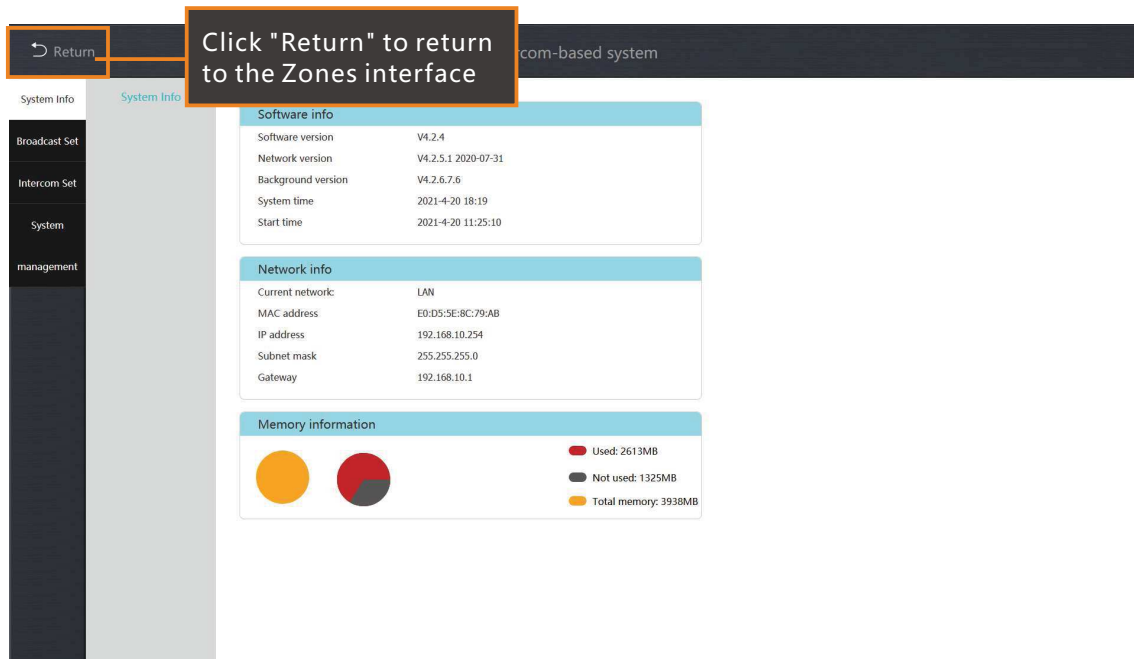
Software info, Network info, and Storage info are displayed in the System Info. Software info: Product model, Software version, Network version, System time and Start time.

Network info: Current network, MAC address, IP address, Subnet mask and Gateway.

Memory info: Used, Not used and Total storage.



There is a Return button in the upper left corner of the Settings interface to return to the previous interface.



Broadcast Set

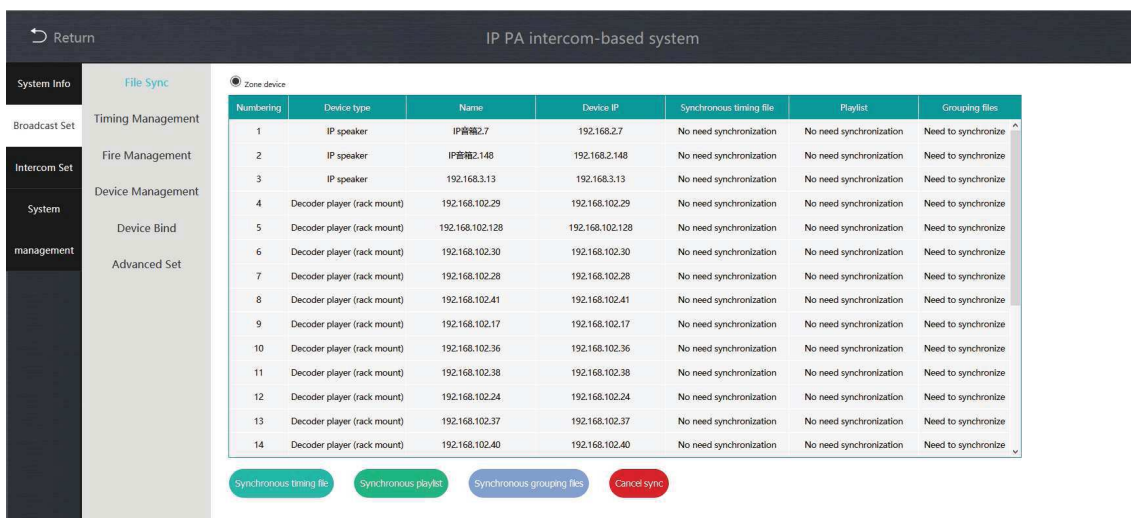
• File Sync

"Synchronous timing file" is used to download timing files to all zones.

"Synchronous playlist" is used to download playlists and musics to all zones.

"Synchronous grouping files" is used to download group information to all zones.

(This function is used for automatic zone running or cross-network segment when the server is offline, and requires a terminal device support.)



• Timing Management

The Timing management interface includes Timing scheme and Timing point settings. All timing settings will become effective after you click OK. **(Note: Please backup system when setting timing schemes.)** The Timing scheme settings are as shown below:



- | | |
|----------------------------|---|
| 1. Timing scheme title. | 5. Rename the timing scheme. |
| 2. Add a timing scheme. | 6. Prohibit / Recover the timing scheme. |
| 3. Import a timing scheme. | 7. Export the currently selected timing scheme. |
| 4. Selected timing scheme. | 8. Delete the currently selected timing scheme. |

(Note! No recall after deletion! Please proceed with caution! Please backup before deletion!)

In the timing point setting interface, the menu bar displays the timing point number, name, status, play cycle, start time, end time, play mode, volume, selected zone / group, selected music and timing point operation, as shown below:



1. Add a timing point (Please refer to the detailed introduction to the Add / Edit timing point interface below)
2. Edit a timing point (Please refer to the detailed introduction to the Add / Edit timing point interface below).
3. Prohibit / Recover the timing point.
4. Copy the timing point.
5. Delete the timing point. **(Note! No recall after deletion! Please proceed with caution! Please backup before deletion!)**

The timing point editing interface is as shown below:

You can set the Cycle by date or Scheduled date, Start time, End time and Play to the end of the song, and select multiple zones or all zones and all groups, as well as select the Playlist, List songs and Timing songs that can all be added and removed, and provide Play order and other functions. Click Confirm to enable all settings or click Cancel to cancel all settings and close the window. There is no difference between the editing interface and the creating a new timing point interface.

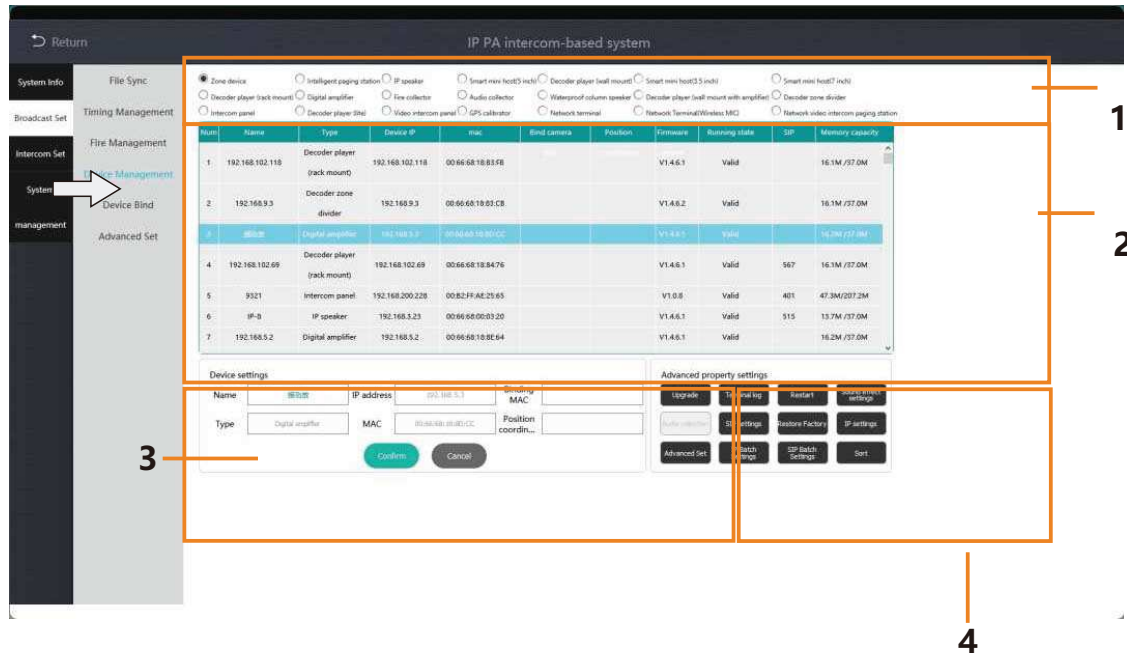
• Fire Management

In the Fire management, you can set the alarm sound effect, which needs to be used and set in conjunction with a fire collector.

Number	Channel name	Trigger mode	Alarm sound effect
1	Channel 1	Short circuit trigger	昨夜小楼又东风.mp3
2	Channel 2	Short circuit trigger	最长的电影.mp3
3	Channel 3	Short circuit trigger	
4	Channel 4	Short circuit trigger	
5	Channel 5	Short circuit trigger	
6	Channel 6	Short circuit trigger	
7	Channel 7	Short circuit trigger	
8	Channel 8	Short circuit trigger	

• Device Management

Click the Device Management to enter the interface as shown below:



1. Filter interface. This part is used to filter devices to be displayed, including all Zone devices, Intelligent paging station, IP speaker, Smart mini host (5"), Decoder player (wall mount), Smart mini host (3.5"), Smart mini host (7"), Decoder player (rack mount), Digital amplifier, Fire collector, Audio collector, Waterproof column speaker, Decoder player (wall mount with amplifier), Decoder zone divider, Intercom panel, Decoder player (lite), Video intercom panel, GPS calibrator and other items.

2. Device list. This interface includes the device list that can be read currently, with Number, Name, Type, Device IP, MAC, Bind camera MAC, Position, Firmware, Running state, SIP, Memory capacity and Unicast and Multicast.

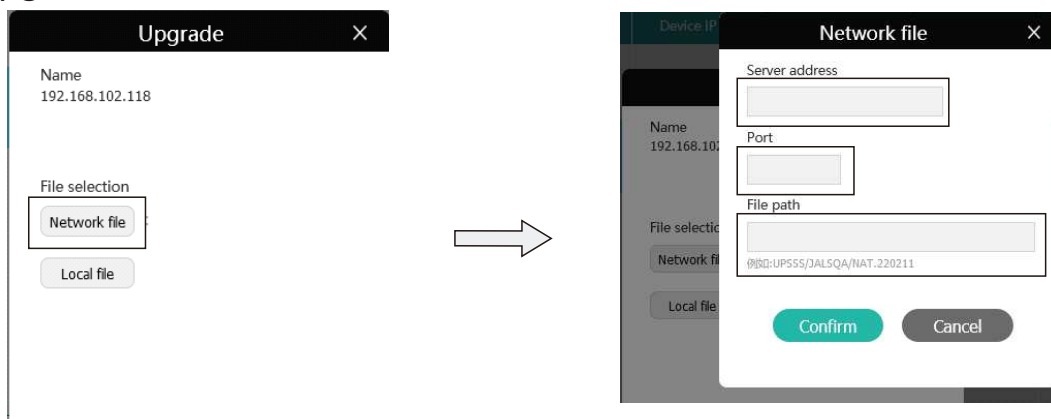
3. Device settings. Can set the Name, IP address, Binding MAC, Type, MAC, Position coordinates and unitcast and multicast.

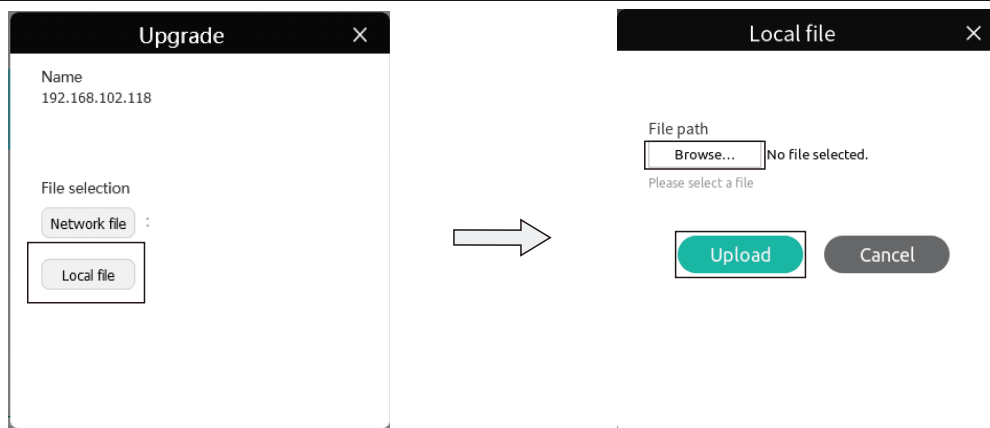
4. Advanced property settings. There are Upgrade, SIP settings, Restart, Sound effect settings, IP settings and Audio collection.

Advanced Property Settings

Upgrade

In the Upgrade interface, select Local file or Network file, as shown below:

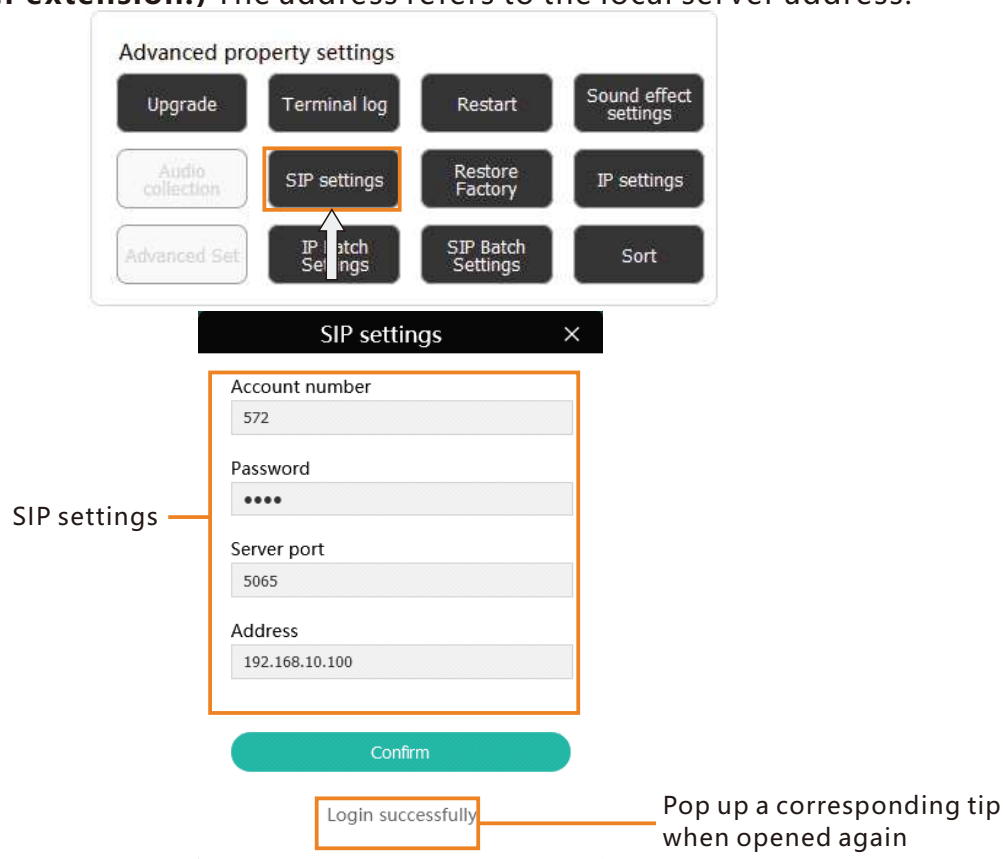




Network file upgrade: Click the network file to pop up the network file window, enter the correct server address, port and file path, and finally click Confirm, and wait for the upgrade to realize network file upgrade. Local file upgrade: Click the local file to pop up the local file window, click Browse, select the local file and return to this interface, and finally click Upload and wait for the upgrade to realize local file upgrade.

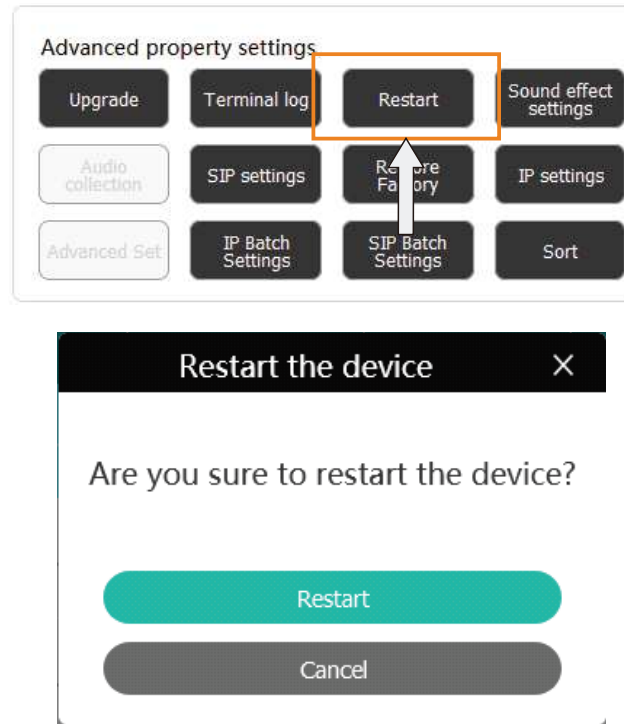
SIP Settings

Click the SIP settings button to pop up the SIP settings interface. Create a user extension with a set SIP account number and password in advance in the "Basic settings --User extension" and click OK. It means login success when the SIP account can be displayed on the interface and it will pop up a tip of Login successfully when the SIP account is opened again. Please check whether the SIP account and password are correct if "Login failed" occurs. Enter the local server address and click OK to make it effective. **(Please refer to P47 for instructions on creating a user extension.)** The address refers to the local server address.



Restart

Click the Restart button to pop up the Restart the device window, with a prompt "Are you sure to restart the device?", and then click Restart. The list options will turn gray when the selected device is restarted. If no device is selected, all devices will be restarted. Wait for the device to restart. The detailed interface is as shown below:



Restore Factory

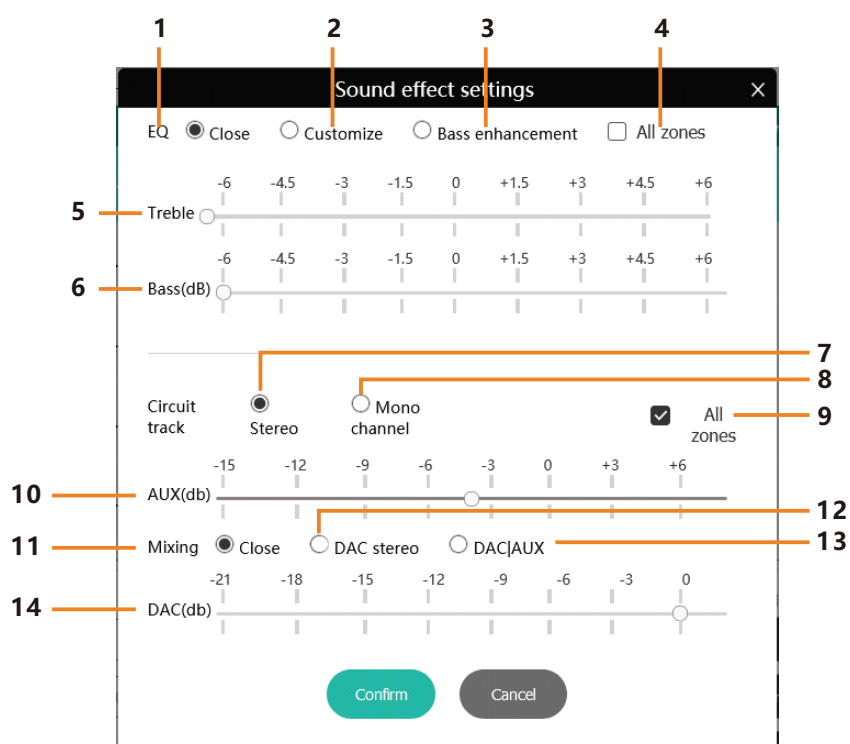
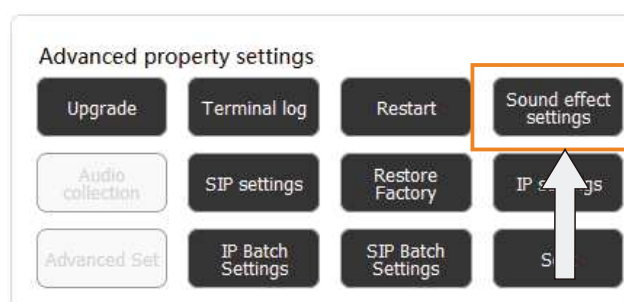
This function can restore all data of the device to the factory settings. Please handle with caution. Select the device, click the Restore Factory button to pop up the Restore Factory window, with a warning prompt, click Confirm, and wait for the device to restore. **(Note! Please make corresponding system backup before resetting the data! Reset all device data by default when no device is selected! Please handle with caution!)** The interface is as follows:





Sound Effect Settings

Click the Sound effect settings to pop up the Sound effect settings window, the detailed introduction is as shown below:



1. EQ Close. Close the treble and bass adjustment.
2. Customize. Can adjust the treble and bass settings through the treble and bass sliders below.
3. Bass enhancement. Can significantly enhance the bass effect.
4. All zones. Tick the box to apply the settings of treble and bass adjustment and bass enhancement to all zone devices.
5. Treble slider.
6. Bass slider.
7. LINE IN Stereo. The input sound is stereo.
8. LINE IN Mono channel. The input sound is mono channel.
9. All zones. Tick the box to apply the settings of stereo and mono channel to all zone devices.
10. AUX. LINE IN volume slider.
11. Mixing. When LINE OUT Mixing set Close, it will output original input audio.
12. DAC | Stereo. Mono and dual channel mixing output.
13. DAC | AUX. Network audio and LINE IN audio mixing output.
14. DAC volume slider. Network audio and LINE IN audio mixing output volume slider.

IP Settings

In the "IP Settings" interface, the user can set the IP based on the network environment (The default IP: 192.168.10.128) and click "Confirm".

(It requires a restart to become effective due to a certain network delay.)



The image shows a dialog box titled "IP settings" with a close button (X) in the top right corner. The dialog contains the following fields and options:

- MAC:** A text field containing the value "00:66:68:18:84:53". An orange line points from the label "MAC" to this field.
- IP Settings:** A section containing two radio buttons:
 - ☐ Get IP properties automatically
 - ☒ Get IP properties manually
 Below these are five text fields:
 - IP address:** 192.168.102.74
 - Subnet mask:** 255.255.0.0
 - Default gateway:** 192.168.10.1
 - Preferred DNS:** (empty)
 - Secondary DNS:** (empty)
 An orange line points from the label "IP Settings" to the radio button section.
- Buttons:** At the bottom are two buttons: "Confirm" (teal) and "Cancel" (grey).

• Device Bind

Program source binding: Bind the monitoring program source terminal.

The screenshot shows the "IP PA intercom-based system" interface. On the left is a sidebar menu with the following items:

- System Info
- Broadcast Set
- Intercom Set
- System management
- File Sync
- Timing Management
- Fire Management
- Device Management
- Device Bind (highlighted in teal)
- Advanced Set

The main content area displays the "Programsource monitoring" section with a table of device bindings:

MAC Address	Status
932100F3E0295C38	Bound
85830059216088F	Binding
932600A4D239D545	Binding

• Advanced Set

It includes Working mode, Network mode, and Song source. The interface is as shown below:

1. • Centralized mode: The network broadcast server can perform unified broadcast and control of the program sources for all-zone devices, with a consistent playing sound. All devices must be online, and the system will automatically switch to the distributed mode when a network exception occurs. **!** The mode only supports MP3 and WAV audio formats.
- Distributed mode: After synchronizing files and timing schemes through the network broadcast server, the terminal devices of each zone can work independently from the server, which cannot completely guarantee the consistency of playing sound but support a variety of audio formats (**It requires terminal device support, otherwise it can not play the music.**).
2. Network mode: Select TCP or UDP (**Both the server and the terminal need to work in the same mode**), Factory default UDP mode.
3. Custom function: Available by default, no need to modify.

Intercom Set

• Status Display

•• Extension

Used to view the extension number, name and working status. There are five extension status: Idle, Ringing, Busy, Hold and Unavailable (Unused).

Return		IP PA intercom-based system				
System Info	Extension					
Broadcast Set	VOIP external line					
Intercom Set						
Status Display						
Basic settings						
Inbound call						
router						
Advanced						
configuration						
System						
management						

400	401	402	403	404
400	401	402	403	404
405	406	407	408	409
405	406	407	408	409
410	411	412	413	414
410	411	412	413	414
415	416	417	418	419
415	416	417	418	419
420	421	422	423	424
420	421	422	423	424
425	426	427	428	429
425	426	427	428	429
430	431	432	433	434
430	431	432	433	434
435	436	437	438	439
435	436	437	438	439
440	441	442	443	444
440	441	442	443	444
445	446	447	448	449
445	446	447	448	449

Total: 401 Online: 174 Current call: 0 ● Idle ● Ringing ● Busy ● Hold ● Unavailable

●● VOIP External Line

Display the external lines that have been set.

Return IP PA intercom-based system

Status	Relay name	Type	Username	Host/IP Address/Port	Accessibility
Yes	公司/844	SIP	61.144.55.142	5065	UNREACHABLE

System Info Extension
Broadcast Set VOIP external line
Intercom Set
Status Display
Basic settings
Advanced
configuration
System
management

● Basic Settings

●● User Extension

Before creating a user extension, click “Settings - Intercom Set - Advanced Configuration - Extension Set” to set the user extension number. The maximum number of user extension is 400. And then click “Settings -- Intercom Set -- Basic Settings -- User Extension” to create batch users. Batch create up to 50 users at a time, and click Activate button to make it effective. Add the extension number in the “Advanced Configuration -- Extension Set -- Extension number parameters” if necessary. (Please refer to page 51 of this manual for setting extension number parameters.)

Return IP PA intercom-based system Activate

	Num	Name	Extension number	Port	Protocol	Dial access	Option
<input type="checkbox"/>	1	500	500	--	SIP	DialPlan1	Edit Delete
<input type="checkbox"/>	2	501	501	--	SIP	DialPlan1	Edit Delete
<input type="checkbox"/>	3	502	502	--	SIP	DialPlan1	Edit Delete
<input type="checkbox"/>	4	503	503	--	SIP	DialPlan1	Edit Delete
<input type="checkbox"/>	5	504	504	--	SIP	DialPlan1	Edit Delete
<input type="checkbox"/>	6	505	505	--	SIP	DialPlan1	Edit Delete
<input type="checkbox"/>	7	506	506	--	SIP	DialPlan1	Edit Delete
<input type="checkbox"/>	8	507	507	--	SIP	DialPlan1	Edit Delete
<input type="checkbox"/>	9	508	508	--	SIP	DialPlan1	Edit Delete
<input type="checkbox"/>	10	509	509	--	SIP	DialPlan1	Edit Delete
<input type="checkbox"/>	11	510	510	--	SIP	DialPlan1	Edit Delete
<input type="checkbox"/>	12	511	511	--	SIP	DialPlan1	Edit Delete
<input type="checkbox"/>	13	512	512	--	SIP	DialPlan1	Edit Delete
<input type="checkbox"/>	14	513	513	--	SIP	DialPlan1	Edit Delete
<input type="checkbox"/>	15	514	514	--	SIP	DialPlan1	Edit Delete

Create a user Batch create users Batch modify users Display all

Edit X

1 Basic Set

Name 500

Password: 1234 Extension number 500

2 Dial access DialPlan1

VOIP settings

NAT ☐

3 Video coding

Video call ☒ H.261 ☒ H.263 ☒ H.264

4 ☒ Voice coding

alaw ulaw 9722

Not allowed Allowed

Save Cancel

Batch create users

Start extension: End extensions:
 Dial plan: Password:

Save
Cancel

1. Basic set: Name, Password, Extension number and Dial access.
2. VOIP settings: Voice call technology settings.
3. Video coding: Convert the video call to the ITU standards via the specific compression technology, such as H.261, H.263 and H.264.
4. Voice coding: Allow the system to use related coding standards.

●● Outbound Route

It can display all dial plans, and you can edit, delete and create all plans. You are required to activate the system to apply the new meeting groups to the server. The Activate button will be displayed only when there is a need to activate. The list includes the Default, Dial plan name, Rule and Option.

Return
IP PA intercom-based system
Activate

System Info

Broadcast Set

Intercom Set

Status Display

Basic settings

Advanced configuration

System management

User Extension
Outbound Route
FXO Trunk Line
Dial Rule
VoIP Trunks

Default	Dialplan name	Rule	Option
1	DialPlan1	User Extension, Ringing group, Call queue, Intercom Paging, Meeting room, Monitor,	<div style="display: flex; justify-content: center; gap: 5px;"> Edit Delete </div>

Dial plan name

✕

Contains external call rules

☐ Trunks

Contains internal call rules

☐ Ringing group

☐ Call queue

☐ Intercom Paging

☐ Meeting room

☒ User Extension

☐ Monitor

Save
Cancel

●● FXO Trunk Line

Can edit and create the FXO trunk lines.

Return IP PA intercom-based system

System Info User Extension

Broadcast Set Outbound Route

Intercom Set **FXO Trunk Line**

Status Display Dial Rule

Basic settings VoIP Trunks

Advanced

configuration

System management

FXO Trunk		FXO line		
Num	Relay name	Line	Type	Option
1	PTSN	1,2,3,4	FXO	Edit Delete

New FXO line X

Relay name

Line FXO ☐ 1 ☐ 2 ☐ 3 ☐ 4

[Confirm](#) [Cancel](#)

●● Dial Rule

Can edit, delete and create the dial rules.

Return IP PA intercom-based system

System Info User Extension

Broadcast Set Outbound Route

Intercom Set **FXO Trunk Line**

Status Display **Dial Rule**

Basic settings VoIP Trunks

Advanced

configuration

System management

[Create dialing rules](#)

Dialing rules list				
Num	Rules name	Dial rule	Used lines	Option
1	拨打外部线路	9xxxxxxxxxxx	PTSN	Edit Delete

New dialing rules interface

New dialing rules

Rules name

Call used lines

PTS

公司

Trunk lines

Selected trunk line

Custom rule

Z any number from 1 to 9

N any number from 2 to 9

X any number from 0 to 9

.any number or numbers

Delete

Prefix and automatically add numbers before the number

and then dial

Confirm

Cancel

●● VOIP Trunks

Can edit and create the VOIP trunks.

Return

IP PA intercom-based system

System Info

User Extension

Broadcast Set

Outbound Route

Intercom Set

FXO Trunk Line

Status Display

Dial Rule

Basic settings

VoIP Trunks

Advanced configuration

System management

New trunk line

VOIP中继线路

Num	Relay name	Host name/IP address	Username	Option
1	中继到公司	172.16.10.2	647	<div>Edit</div> <div>Delete</div>
2	miniSIPServer	192.168.200.124	100	<div>Edit</div> <div>Delete</div>

New trunk line

Relay name

Peer mode

☐

Host

:

Username

Username

Password

☐ Advanced setting

Confirm

Cancel

● Advanced Configuration

●● Extension Set

The maximum number of user extension is 400, for example: 400-799. The user can customize the number settings. If the upper limit of the number cannot meet the local network, please contact the technician. In addition, the extension number parameters can be reset to the original system default setting. Click Save after setting.

●● Meeting Room

Can create, edit and delete the meeting groups. You are required to activate the system to apply the new meeting groups to the server. The Activate button will be displayed only when there is a need to activate. As shown below:

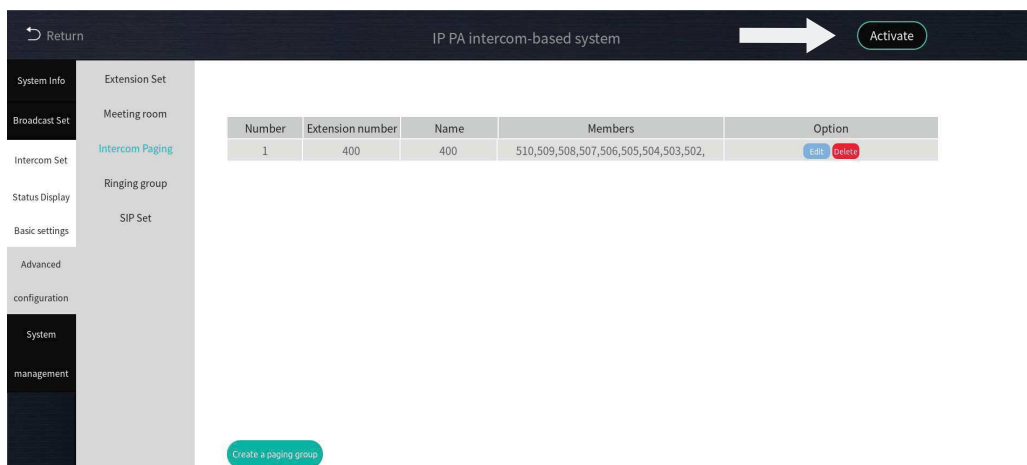
The editing and creating interface of the meeting room is as shown below:

●● Intercom Paging

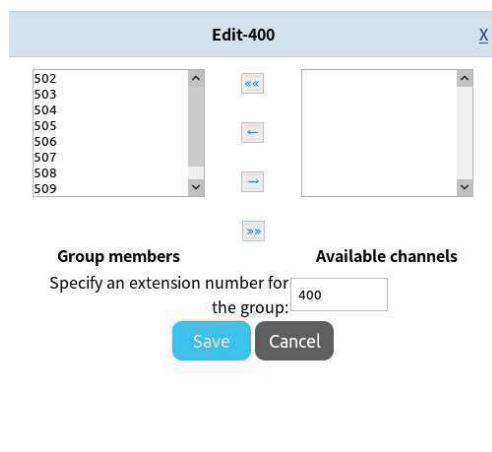
Can create the new paging groups. You are required to activate the system to apply the new paging groups to the server. The Activate button will be displayed only when there is a need to activate.

Intercom Paging group: Members in this group can talk to each other (multi-party talk) after the call is answered.

Ringing group: After the member in this group is the first to answer the call, other extensions stop ringing.

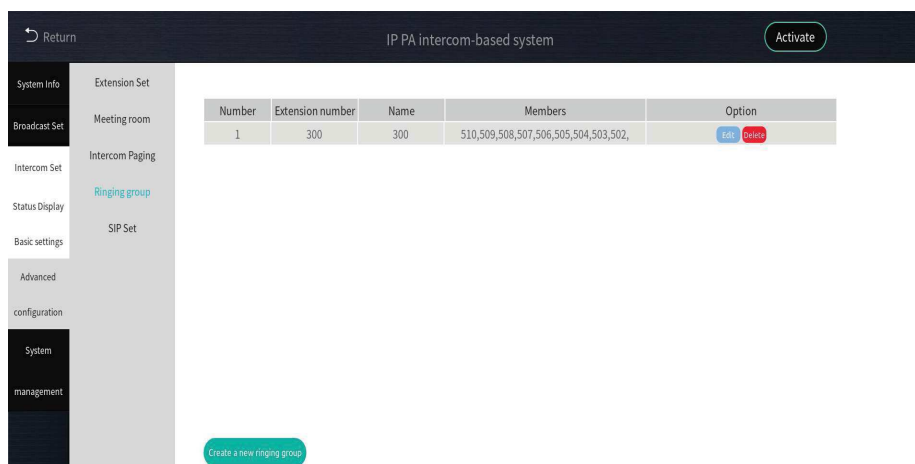


The new paging group interface is as shown below:



●● Ringing Group

Can create, edit and delete the ringing groups.



The creating and editing interface of the ringing group is as shown below:

Edit-300

Available channels: 502, 503, 504, 505, 506, 507, 508, 509

Group members

Specify an extension number for the group: 300

Save Cancel

●● SIP Set

After logging in the IP PA Intercom-based System, you can set the SIP settings in "Settings -- Broadcast Set -- Advanced configuration -- SIP Set", and the "UDP port" in the "Basic Settings" is the "Server port" in the SIP settings, as shown below:

Return IP PA Intercom-based system

Basic Set

UDP port: 0.0.0.0:5083

TCP port: 0.0.0.0:5083

Start RTP port: 9000

End RTP port: 20000

DTMFMode: g729

Maximum registration time cycle (seconds): 3600

Minimum registration time cycle (seconds): 60

Default inbound/outbound registration cycle (seconds): 60

Send SIP registrations

Time between registration attempts (seconds): 30

Number of attempts: 3

NAT settings

Public network IP address: 113.63.166.167

Domain/host name:

Public network TCP port: 39978

Refresh time (seconds): 777

Local network address: 192.168.200.65

Save Cancel

● System Management

●● Network Set

The network settings include WAN port settings, as shown below:

The screenshot shows the 'WAN port settings' configuration window. The interface includes a sidebar with navigation options: System Info, Network Set (selected), Broadcast Set, Intercom Set, System management, Network Set, System Maintain, System Set, Account Management, Log Management, and Monitor Set. The main content area displays the following settings:

- IP assignment: Static
- IP address: 192.168.200.65
- Subnet mask: 255.255.255.0
- Gateway: 192.168.200.2
- Primary DNS server: 8.8.8.8
- Alternate DNS server: 4.4.4.4

At the bottom of the settings window are 'Save' and 'Cancel' buttons.

●● Network Detection

The network self-detection function is added to detect the network quality. The server will be in idle state when you click the one-key detection. As shown below:

The screenshot shows the 'Network Detection' interface. It features a sidebar with navigation options: System Info, Network Set (selected), Broadcast Set, Intercom Set, System management, Network Set, System Maintain, System Set, Account Management, Log Management, and Monitor Set. The main content area displays a table with network quality data. Above the table are two buttons: 'One-key UDP uni-cast detection' and 'One-key UDP multicast detection'. The table has four columns: Zone name, UDP uni-cast (Bandwidth, delay, packet loss), UDP multicast (Bandwidth), and TCP communication (Bandwidth). The data is as follows:

Zone name	UDP uni-cast (Bandwidth, delay, packet loss)	UDP multicast (Bandwidth)	TCP communication (Bandwidth)
192.168.3.13	0Mbps/sec,0ms,0%	18.1Mbps/sec	
对讲面板228	0Mbps/sec,0ms,0%	0Mbps/sec	
192.168.102.28	0Mbps/sec,0ms,0%	0Mbps/sec	
IP音箱2.148	2.59Mbps/sec,3.788ms,91%	11.9Mbps/sec	
192.168.102.76	18.9Mbps/sec,3.937ms,40%	14.4Mbps/sec	
分水器9.3	17.3Mbps/sec,1.425ms,43%	12.6Mbps/sec	
防水音105.101	5.17Mbps/sec,3.368ms,84%	14.9Mbps/sec	
192.168.102.134	1.37Mbps/sec,6.382ms,95%	11.7Mbps/sec	
192.168.102.178	1.2Mbps/sec,6.278ms,96%	11.4Mbps/sec	
192.168.102.74	936Mbps/sec,0ms,0%	10.9Mbps/sec	
IP-音箱3.23	4.05Mbps/sec,9.77ms,84%	10.5Mbps/sec	
192.168.102.108	897Mbps/sec,0ms,0%	10.7Mbps/sec	
IP音箱1.101	3.76Mbps/sec,7.748ms,84%	0Mbps/sec	

●● System Maintenance

● Reset and Restart

You can reset the Zones data, Groups data, Playlist, Timing data, Audio collector and Fire collector, as well as set factory data reset and server restart.

Refresh zones again after resetting "Zones data" .

Create new groups again after resetting "Groups data" .

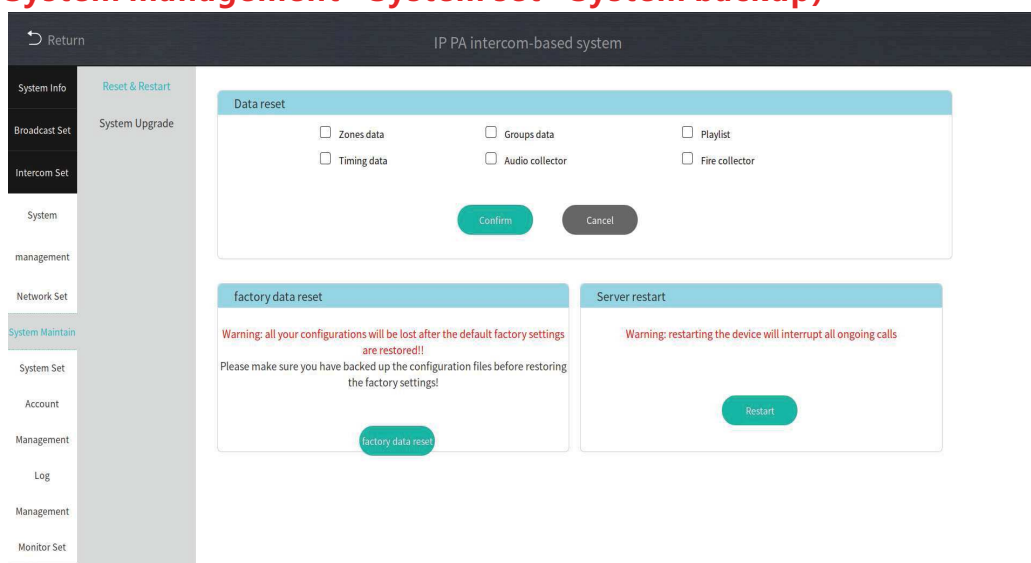
Create playlist again after resetting "Playlist" .

Add timing schemes again and reset timing points after resetting "Timing data" .

Refresh again after resetting "Audio collector" and "Fire collector" .

"Streaming Gateway" and "Audio Transit Terminal" settings will be cleared after resetting.

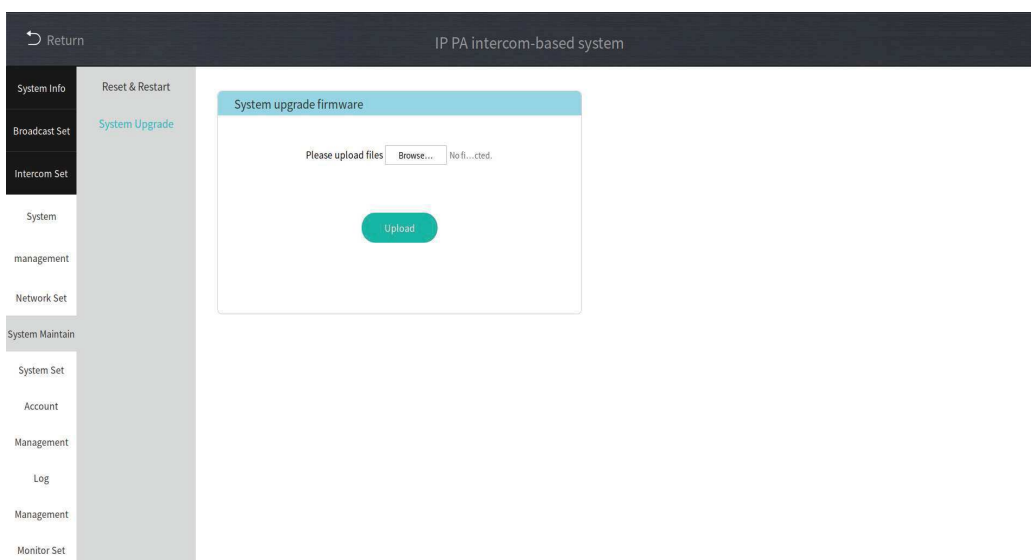
(Note! Please make relevant important backup before resetting! You can backup in the System management - System set - System backup)



● System Upgrade

You can upgrade the system firmware. Only local files are available for upgrading.

Click "Browse" in the pop-up window to select the upgrade file and then click "Upload" to upgrade. Please backup the system before upgrading!



●● System Set

● Time Set

You can set system time, with automatic setting switch for one-click time setting, and with manual setting if necessary, and then save it.

Return IP PA intercom-based system

System Info Time Set

Broadcast Set Lang. Set

Intercom Set System Backup

System

management

Network Set

System Maintain

System Set

Account

Management

Log

Management

Monitor Set

Time Set

Automatic setting switch ☒ ON

Manual settings

Date 12/29/2019

Time 11:19:14

Save Cancel

● Lang. Set

You can set the system language, including simplified Chinese and English.

Return IP PA intercom-based system

System Info Time Set

Broadcast Set Lang. Set

Intercom Set System Backup

System

management

Network Set

System Maintain

System Set

Account

Management

Log

Management

Monitor Set

Lang. Set

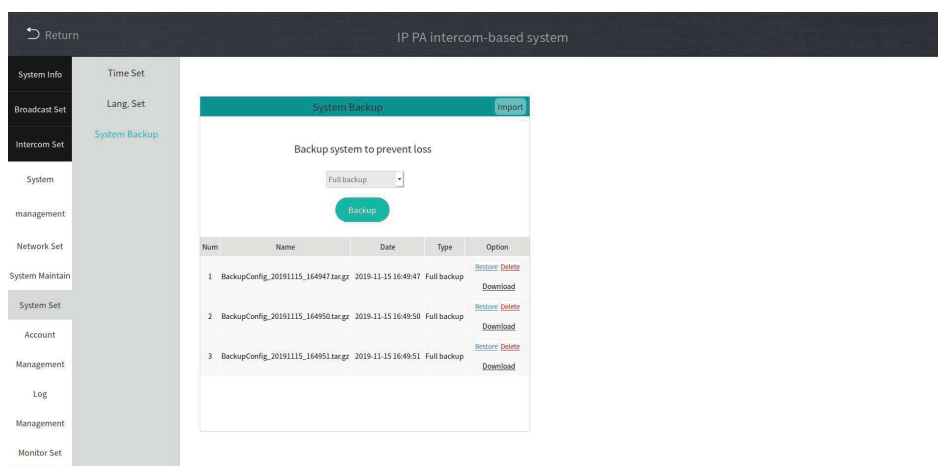
Lang. Set

English

Save Cancel

● System Backup

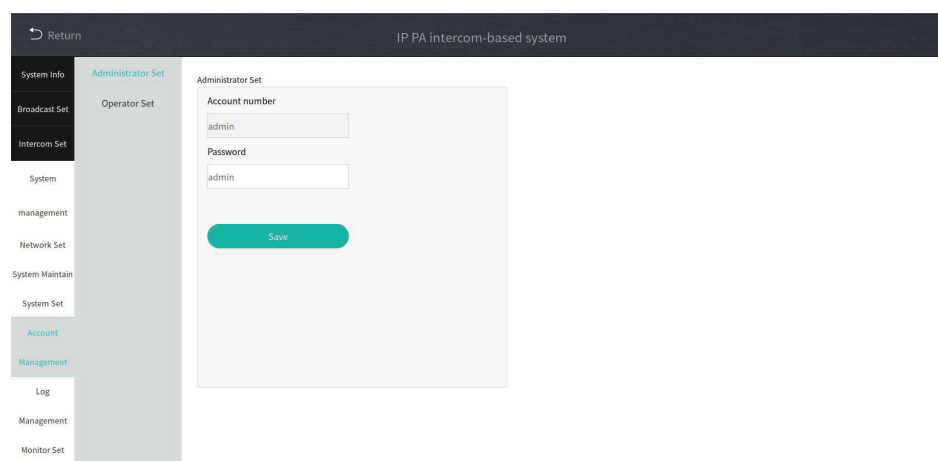
You can backup the system, and view the Number, Name, Date and Option. And you can edit and delete the backup in the Option. It is recommended to backup the system in an irregular manner!



●● Account Management

● Administrator Set

You can set the administrator account number and password.
(The initial administrator account : admin, password:admin.)



● Operator Set

You can add an operator in the Operator settings. The operator only has zone operating permission without setting permission, and must be authorized by the administrator to view the zones that have been authorized, without the permission to add songs and song lists, delete songs and song lists. You can add a maximum of 80 operators.

●● Log Management

Log management includes All logs, Run Log, Play Log, Sync. Log, Fire Log, Call (Intercom) Log, Monitor Logs and Broadcast Log. And you can query and export logs by date.

Num	Type	Time	Name	Log content	File editing
1	Play Log	2019-12-26 08:33:58	192.168.200.101	定时播放:Chime.wav	
2	Play Log	2019-12-26 08:33:58	192.168.200.101	定时播放:Chime.wav	
3	Run Log	2019-12-26 13:48:27	192.168.10.128	上线	
4	Sync. Log	2019-12-26 13:50:40	192.168.200.28	定时文件:同步完成	
5	Sync. Log	2019-12-26 13:50:45	192.168.200.28	定时文件:同步完成	
6	Sync. Log	2019-12-26 13:50:50	192.168.200.28	定时文件:同步完成	
7	Sync. Log	2019-12-26 13:50:55	192.168.200.28	定时文件:同步完成	
8	Sync. Log	2019-12-26 13:51:00	192.168.200.28	定时文件:同步完成	
9	Sync. Log	2019-12-26 13:51:05	192.168.200.28	定时文件:同步完成	
10	Sync. Log	2019-12-26 13:51:10	192.168.200.28	定时文件:同步完成	
11	Sync. Log	2019-12-26 13:51:15	192.168.200.28	定时文件:同步完成	
12	Sync. Log	2019-12-26 13:51:20	192.168.200.28	定时文件:同步完成	
13	Sync. Log	2019-12-26 13:51:25	192.168.200.28	定时文件:同步完成	
14	Sync. Log	2019-12-26 13:51:30	192.168.200.28	定时文件:同步完成	

●● Monitor Set

● Monitor Set

All network camera will be displayed here. You can modify single or multiple usernames and passwords as well as the camera name.

(Note: It will display "Logged in" only when both the username and password have been entered correctly. If it displays "Online", it means that you have not logged in successfully.)

● Event Bind

You can set Event type, Number of trigger zone and Event binding edit. This function can transmit the trigger information from camera to one or more zones, with a customized trigger voice. There are three broadcasting feedback schemes: Motion detection, Cross-line intrusion and Zone intrusion. The application scenarios of event trigger: alarm trigger, guest trigger, museum interpretation, intelligent park broadcast and leader speech. **(One camera for one event.)**

Monitor Set						
	Event Bind	Num	Camera name	Event type:	Number of trigger zone	Event binding edit
		001	192.168.10.231	Motion detection	0Unit	Start editing -Disabled
			192.168.10.231	Cross-line intrusion	0Unit	Start editing -Disabled
			bcba:c2:6d:0f:bf	Zone intrusion	0Unit	Start editing -Disabled

The editing interface is as shown below:

1. Camera Selection

Camera name: 192.168.200.153

Camera information:

IP: 192.168.200.153

MAC: 98:8b:0a:78:89:b5

User's name: admin

Event type: Motion detection

Event enable: ☒

The ring that triggers the event

Songs list: Select music: TTS List

Ring volume:

2. Ring and time that trigger the events

☒ Weekly cycle

☐ Monday ☐ Friday

☐ Tuesday ☐ Saturday

☐ Wednesday ☐ Sunday

☐ Thursday

☐ Scheduled date

Start date: mm / dd / yyyy

End date: mm / dd / yyyy

Start time: 00 : 00 : 00

End time: 00 : 00 : 00

3. Zones affected by events

Select zone: Remove all

All zones: Add all

9326
192.168.200.103
IP 音箱
192.168.200.101
192.168.100.244
192.168.200.152
602
192.168.200.239
839
839
839
839
192.168.200.128
9136
9321
839

Confirm Cancel

Linkage Settings

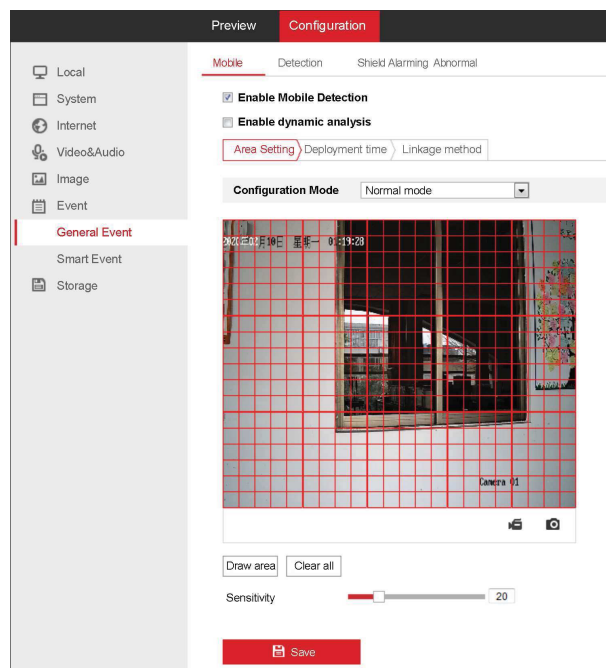
(Only support Hikvision cameras with "Open Event SDK" function and Dahua camera with "Open General Behavior Analysis SDK" function. (It is recommended to set only one kind of event for each camera.)

Hikvision camera linkage setting steps:

Enter the IP address in the browser and click "Configure" to enter the configuration interface.

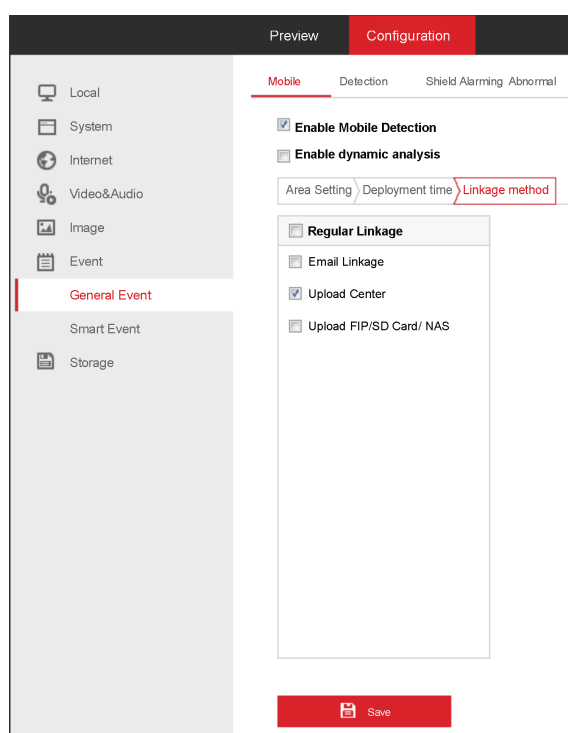


Click "General Event" to set "Motion Detection" event; Click "Enable Motion Detection" to enable the event.



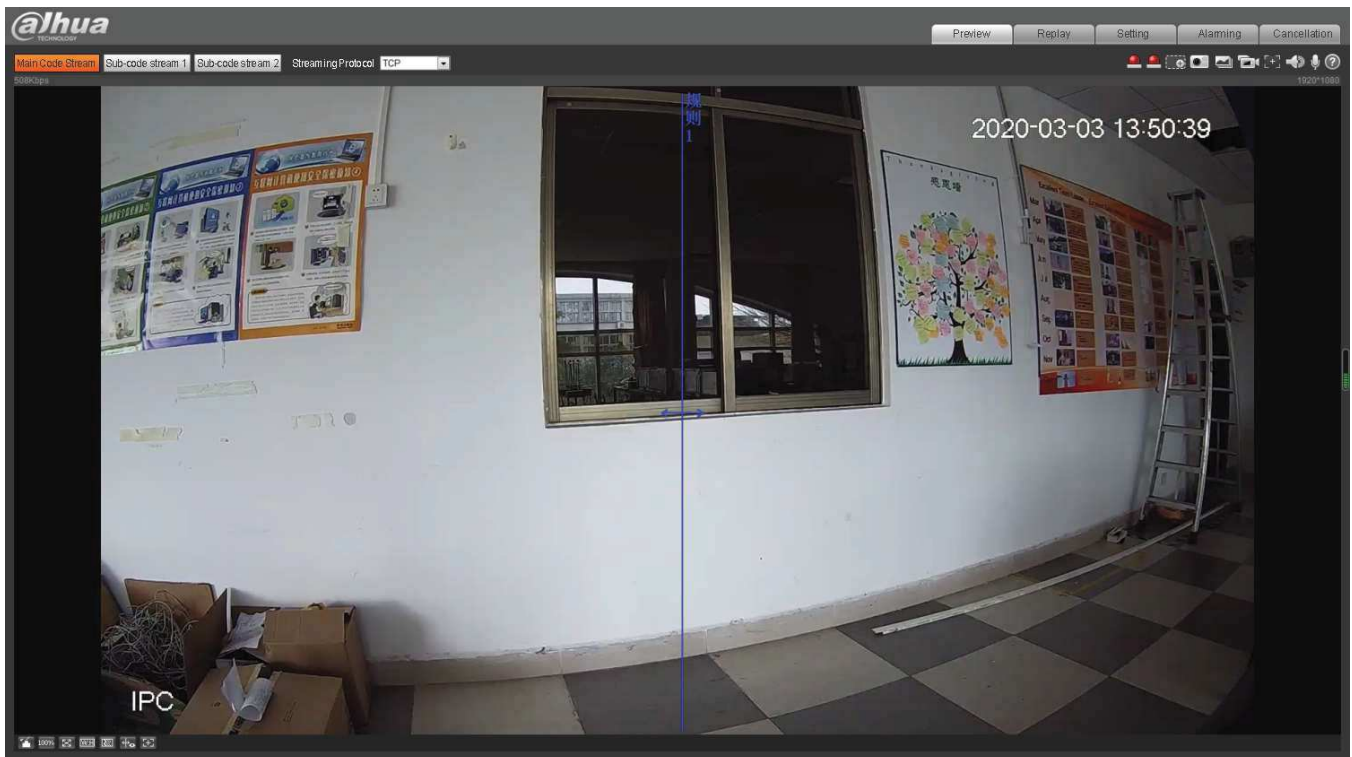
Click "Linkage", select "Upload Center", then click Save, the motion detection event will take effect.

"Smart event" includes "Area intrusion" and "Border crossing detection" events, whose setting steps are as above.



Dahua camera linkage setting steps:

Enter the IP address in the browser and click "Settings" to enter the setting interface.



Click "General Behavior Analysis", and click "Tripwire Intrusion" on the right side of the interface to bring up a pop-up list to select the event type. Tripwire intrusion", "Area intrusion" and "Fast movement" are supported.

Please check if the event configuration of the server is effective after completing the configuration of the camera.

FAQ

1. Can not see the connected devices in the management system.

- 1) Check whether the network port LED of the device is normal. Under normal state, the network port LED is always green and flashing orange. If the green light is off, check whether the terminal is powered on, whether the switch port is connected normally, and whether the network cable is in good condition.
- 2) For terminals that can make sounds, you can judge the state by listening to the beep. Under normal state, the terminal will emit three sections of four beeps during power-on and boot. Beep (Linux system runs successfully)-Beep (terminal program is loaded successfully)-Beep (the terminal has an IP address). If you only hear two sections of three beeps, you need to add a router to assign an address to the terminal.
- 3) Check whether the network modes of the server and terminals are all in UDP or TCP mode (alternative).

2. Can not play the selected songs.

- 1) Please check whether the server terminal IP is in the same network segment.
- 2) Please check whether there is IP conflict in the selected zones.

3. The timing point can not work properly after setting.

- 1) Please check whether the time is set correctly in the time settings.
- 2) Multiple timing schemes are used, and the current server can only execute one timing scheme.
- 3) Please check whether the current timing scheme is the scheme to be executed.
- 4) The network broadcast management system / iPAD closed the terminal program control function.
- 5) The timing point does not include this area.

4. How to find the corresponding devices of zones.

Click Settings - Broadcast Set - Device Management to find the corresponding list of zone MAC. Use this MAC address code to identify the corresponding device based on the MAC address labeled on the rear panel of the terminal device.

5. The speaker has no sound or low volume.

Please first check whether the connection between the speaker and the device is correct, and check whether the volume of the speaker is set low (You may need to connect the network speaker to the server separately, set the speaker to a higher volume through the control software, and then connect the network speaker to other players).

6. SIP account login fail.

If not set successfully, please edit the user extension in "Intercom Set - Basic settings - User Extension" and view whether the extension password is correct. Also, please check whether "Server port" and the device IP address are correct. ("Server port" can be viewed and modified in "Intercom Set - Advanced configuration- SIP Set" .)

7. Terminal device IP address is not set successfully.

Please check whether the IP address is repeated.

If you have any problem that cannot be solved by the above methods, please call us.

Specification

Item	M-9100(2U)	M-9100(7U)
CPU	Intel® Core™ I5 4430 3.0GHz	
RAM	4G/DDR3	
Hard Disk	120G SSD	
Display Screen	/	17.3" 1920×1080, resistive touch screen
Video Interface	VGA, HDMI	VGA
USB	Front: USB × 2, rear: USB × 4	
Protocols	TCP/IP, UDP, ICMP, IGMP (Multicast)	
Network	RTL8111F Gigabit network card chip, support WOL/PXE	
Power Input	ATX power supply (AC180-240V ~ /47-63Hz/7/3.5A)	
Environment	-10°C ~ 50°C, ≤90%RH (No condensation)	
Package Size_(H×W×D)	160×535×470mm	470×535×365mm
Product Size_(H×W×D)	88×483×335mm	308×483×340mm
Gross Weight	7.8kg	23.4kg
Net Weight	5.9kg	13.4kg

Packing List

Component	Quantity
Broadcast Intercom Web Server.....	1
Warranty Card	1
Power Cord	1
User Manual.....	1
Certificate of Conformity	1

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