



EVAC Fire Alarm System

User Manual

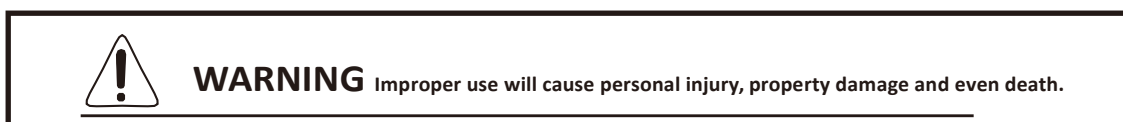
Guangdong Baolun Electronics Co., Ltd.

Thank you for purchasing our EVAC Fire Alarm System
For better use, please read this manual carefully before use

Safety instruction

- Please read this manual carefully before use.
- Pay attention to the safety warnings in this manual.
- It is recommended to keep this manual for future reference.
- The safety symbols and warnings shown in this manual are intended to prevent personal injury and property damage caused by improper operation. Please read this manual carefully before using this product and be sure to understand the various safety symbols and warning signs to fully understand the potential hazards.

When installing the device



- Use only within the voltage range specified by the device. Using a voltage higher than that which is specified may result in fire or electric shock.
- Do not cut, kink, damage or arbitrarily modify the power cord. In addition, avoid proximity to electric heaters when using the device, for that may result in fire or electric shock.
- Do not place heavy objects on the device to avoid damage to it, which may cause electric shock or fire.
- Please install the device in a place that can bear its weight or on a stable table instead of an unstable place, such as on a rickety table or a slanted surface, so as to avoid personal injury or property damage when the device falls.
- Never plug or unplug with wet hands, as doing so may cause electric shock.
- When unplugging, make sure you are pulling the plug body; never pull on the cord itself.
- When moving the device, be sure to unplug the power cord first. If the machine is moved together with the plug, it may cause fire or electric shock.
- Do not cover the vents on the machine to avoid fire caused by high internal temperature of the machine.
- Avoid installing the device in humid or dusty locations, in locations exposed to the direct sunlight, close to the heaters, or in locations with sooty smoke and steam (like bathrooms) to avoid fire or electric shock.

Notes

- If you find any of the following abnormal conditions during use, please turn off the power immediately, unplug it quickly and contact your nearest dealer. Do not continue to use the device until it is resolved, as it may cause fire or electric shock.

- If smoke or strange odor is emitted from the device;
- If water or metal objects fall into it;
- If it is dropped or the housing is damaged;
- If the wire is damaged (wire core exposed, disconnected, etc.).

- The machine contains high-voltage parts inside. To avoid fire or electric shock, never open the cabinet without professionals. Please notify your nearest dealer of any problems.

- Do not place cups, bowls, vases or other liquid-filled objects on it. Accidental spillage of liquid may cause fire or electric shock.

- Do not expose it to rain or any place that is wet or prone to water, which may cause electric shock or fire.

- Do not put metal, flammable materials or coin through the vents on the cover plate, as this may cause fire or electric shock.

- Do not place heavy objects on it, as the machine may fall and cause personal injury or property damage.

- Do not continue to use the machine when the sound is distorted as this indicates a malfunction that may cause high temperature and fire inside the machine.

- If there is long-term accumulation of dust, please notify your dealer to clean the machine regularly to avoid damage or fire.

- Make sure the socket is in solid contact to avoid poor contact that could cause a fire or personal injury. Unplug the device when it has not been used for more than 10 days to avoid causing electric shock or fire.

- Make sure the volume is turned down to the lowest before turning on the power, since high volume may damage your hearing.

- The panel is subject to upgrade without notice. For details, please refer to the actual product.

- The device must be connected to a power socket with a grounding device to ensure that it is adequately grounded.

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1. System Overview

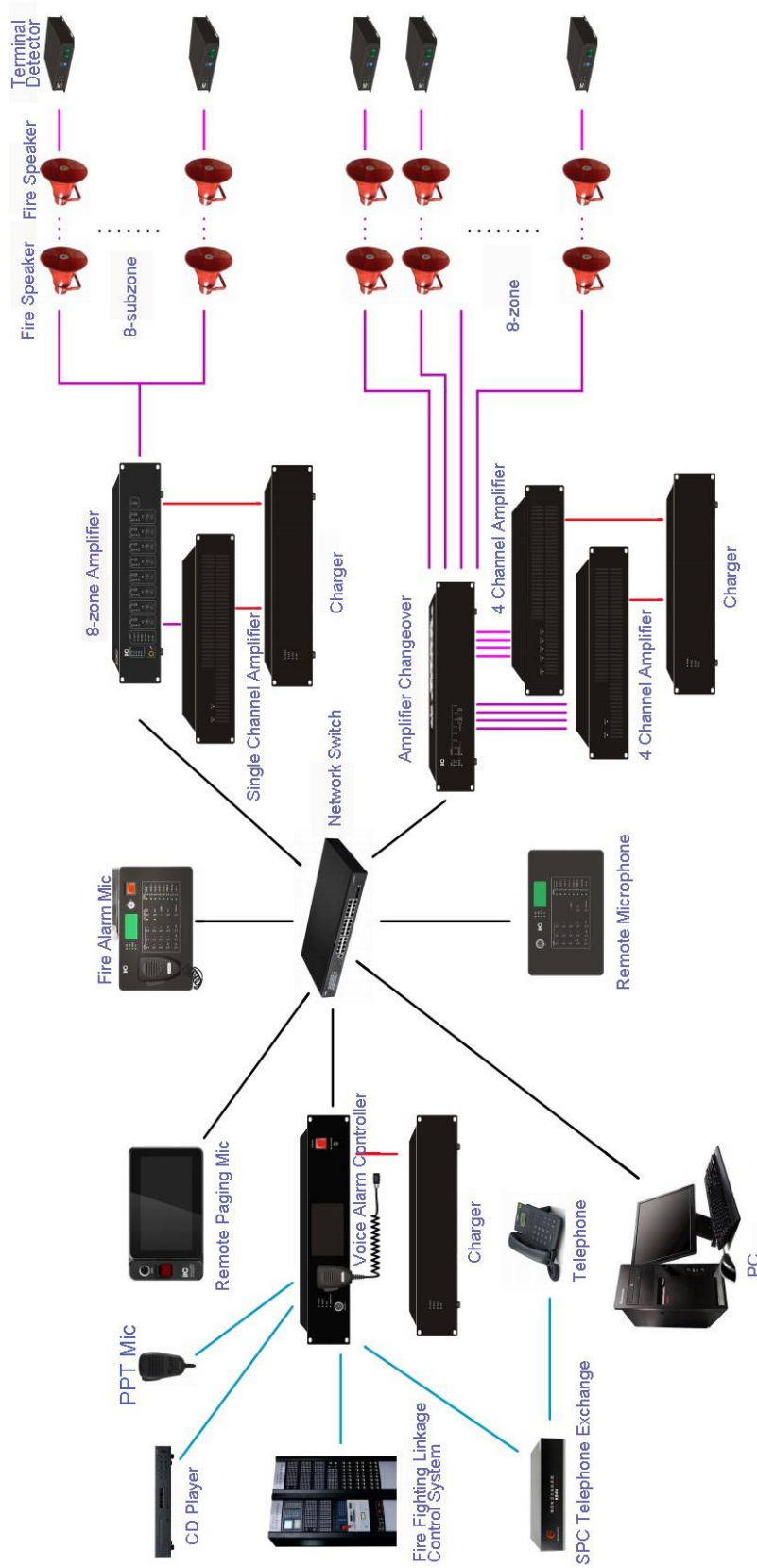
VA-6100 EVAC Fire Alarm System is a set of fire broadcast system based on Ethernet hardware technology and TCP/IP network protocol, using network transmission of digital audio to ensure that the audio signal can be transmitted over long distances, solving the signal attenuation in long-distance transmission, environmental electric and magnetic harassment; with the adoption of network architecture transmission, the pre-construction and wiring costs of the system are greatly reduced, and the simple system architecture brings convenience to the later system expansion, maintenance, etc. As an important equipment for fire evacuation and fire fighting command, it plays an extremely significant role in the whole fire control management system. Its main goal is to release broadcast information in case of fire, evacuate people in time and ensure the safety of people's lives.

EVAC Fire Alarm System is mainly applied to medium and large public places such as star hotels, Grade A office buildings, shopping centers, factory parks, gymnasiums and exhibition halls, hospitals and schools, railway stations and airports, etc. It can meet various needs such as emergency broadcasting, background music and service broadcasting. Among them, the background music can be played on demand to create a good environment atmosphere; service broadcasting can provide convenient and quick information tips for administrative offices and property management; and fire emergency broadcasting can provide necessary voice warnings in critical situations such as fire and earthquake. It can play background music when there is no fire disaster and can insert the service broadcast at any time. Once the fire disaster is detected, the fire alarm signal is immediately issued, and the system switches to the emergency broadcast work state and starts the preset voice evacuation broadcast; or it can evacuate the crowd and direct the work in time through the paging microphone to ensure the safety of people's property.

2.System Features

1. Comply with GB 16806-2006 fire fighting linkage system requirements;
2. Based on 3-layer network transmission technology, compatible with standard network protocols;
3. Simultaneously meets multiple needs such as business broadcasting, fire broadcasting and background music broadcasting;
4. Adopt self-researched digital transmission audio technology, with ultra-low delay in audio transmission;
5. Compatible with 3-wire system and 4-wire system standard wiring;
6. Real-time monitoring of system status and real-time detection of speaker lines;
7. System device support tftp network remote upgrade, ftp file management;
8. Amplifier with self-protection mechanism; automatic isolation in case of short circuit; overload, over-current, over-voltage, over-temperature protections;
9. Amplifier automatic sleep and automatic wake-up function;
10. Dual power supply design, it automatically switches to the standby power supply when the main power supply fails.

3.System Architecture



4.Product Introduction

4.1.VA-6100MA Voice Alarm Controller

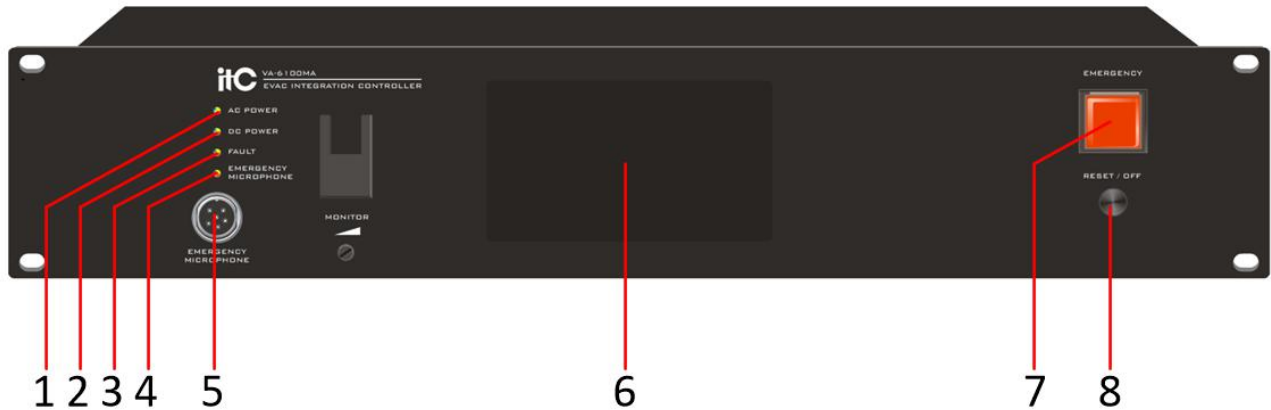
VA-6100MA is a core management and control device for public address broadcasting and emergency voice alarm broadcasting. The system control and status inquiry can be directly completed through a 5-inch HD touchscreen. System functions can be configured through PC management software, which enables monitoring and management of the physical zone status of the system, automatic monitoring and management of terminal devices, and automatic execution of user pre-programmed controls.



4.1.1.Feature

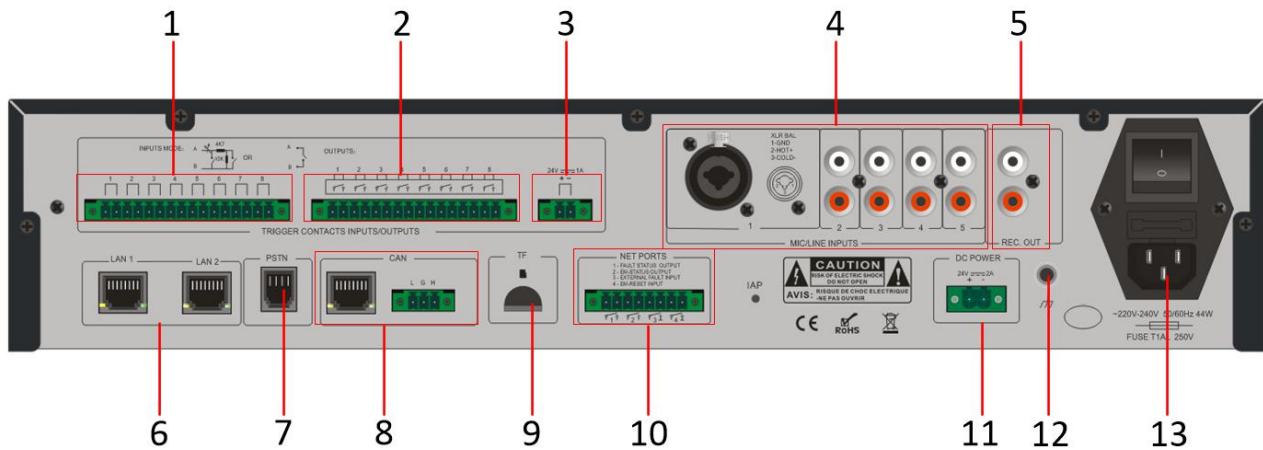
1. 5-inch HD touchscreen with a HMI graphical interface in true colors.
2. One button for emergency alarm.
3. Support zone selection, zone distribution, grouping operation, with independent zone volume adjustment.
4. Support user-defined zone name, group name, host name, easy to operate and manage.
5. Support event trigger, timing trigger control output.
6. Support zone monitor, equipment status real-time indication.
7. Support event trigger phone call notification, can be set re-calling times when no answering.
8. Support Ethernet online configuration, control interface work offline.

4.1.2. Front panel



No.	Name	Description
1	AC power indicator	Steady green - indicates that the main power supply is normal; Steady yellow - indicates that the main power supply is faulty;
2	DC power indicator	Steady green - indicates that the standby power supply is normal; Steady yellow - indicates that the standby power supply is faulty Off - indicates that the standby power supply is not configured;
3	Fault indicator	Off - indicates that there is no fault in the system; Flashing yellow - indicates the system has at least one fault;
4	Emergency microphone indicator	Steady green - indicates that the emergency microphone status is normal; Steady yellow - indicates that the emergency microphone status is faulty; Steady red - indicates that the emergency microphone is paging;
5	Emergency microphone (PTT)	Press the PTT switch to enter PTT paging; Release the PTT switch to exit PTT paging;
6	Human-machine interaction interface	5-inch touch screen for system control
7	Emergency button	Enter emergency mode Flashing red - the system is in emergency mode Off - the system is working in normal mode
8	Silence button	Used to turn off the buzzer tone when the system fails. When a new fault occurs again, the fault indicator and prompt tone will resume prompting. The system exits emergency mode.

4.1.3.Rear panel



No.	Name	Description
1	Trigger input interfaces	8 programmable fire linkage input interfaces, supporting short-circuit mode or level mode, configured by the configuration tool; Short-circuit mode - states include normal and trigger; Level mode - states include open, shorted, triggered and normal
2	Trigger output interfaces	8 programmable fire linkage output interface. The output type is relay short-circuit output;
3	Power output interfaces	Output voltage 24V, with supported max. power supply of 0.3A
4	Microphone/line input interfaces	1 - multiplexed interface. As microphone input when the 6.35mm plug is input, and line balanced audio input when the XLR head is input; 2/3/4/5 - line input with RCA interface;
5	Recording output interfaces	Output recording signal, with external recorder, with RCA interface
6	Network interfaces	Standard RJ45 interface
7	Telephone interface	External Private Branch Exchange, for telephone broadcasting
8	CAN interfaces	External charger or recorder, RJ45 interface has the same function with Phoenix terminal interface
9	TF card interface	Insert TF card to store background music, tone, evacuation or warning voice audio files
10	Status output/system emergency mode status output/external fault	1 - System fault status output - this interface is short-circuit output when equipment failure occurs, otherwise it is disconnected;

	input/reset interfaces	<p>2 - System emergency mode status output - this short-circuit interface is connected when the system works in emergency mode, and disconnected when in normal mode;</p> <p>3 - External fault input - link with external devices</p> <p>4 - Fire reset contact input - when the system works in emergency mode, input a low level signal greater than 0.5S from this interface, the system will then reset and enter normal working mode;</p>
11	DC power input interfaces	24V DC power input
12	Ground terminal	Nickel-plated copper column with flat washer and screw cap
13	AC power supply interface	AC power input

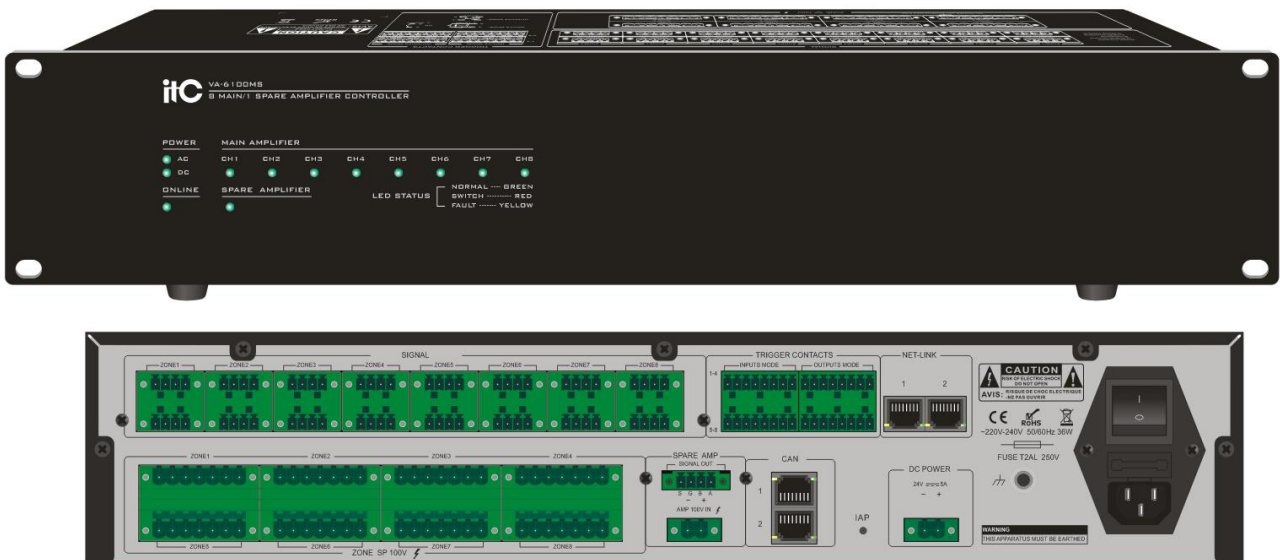
4.1.4. Technical parameters

Electrical Specifications	
AC power supply	
Voltage	AC 110-240V 50-60Hz
Max. Current	Less than 0.5A
Fuse specification	250V/1A, slow speed type
Power consumption	36W
DC power supply	
Voltage	DC 24V, 18-31V Self-adaptive
Max. Current	2A
Performance index	
Emergency microphone	
Sensitivity	10mV
Impedance	600Ω
Line input	
Number of input channels	5 way (1 XLR interface, 4 RCA interfaces)
Sensitivity	385mV (balanced), 775mV (unbalanced)
Impedance	20KΩ(balanced)、10KΩ(unbalanced)
Recording output	
Distortion	<0.1%

Amplitude	200mV
Frequency response	200-16KHz
Signal to Noise Ratio	> 68dB
Contact output	
System fault relay output	Short circuit, no voltage
Fire linkage relay output	Short circuit, no voltage
8 programmable relay outputs	Short circuit, no voltage
Programmable DC 24V power output	DC 24V/0.3A
Contact input	
Trigger type	Short-circuit input, short-circuit input with detection, voltage input
Short-circuit mode	3.3V, short circuit trigger, no linkage line monitoring function
Short-circuit mode with detection	3.3V, short circuit trigger, support linkage line fault alarm
Voltage mode	18-31V voltage input, voltage trigger, support linkage line fault alarm
Fire reset input	Contact \geq 0.5S, no voltage
Voice message	
Data format	MP3 or WMA format
Storage type	TF card
Number of messages	65535(programmable up to 1000)
Storage time	> 10 years
Other information	
Data format	HEX、 BIN
Storage type	Nand Flash
Number of messages	100,000
Storage time	> 10 years

4.2.VA-6100MS Amplifier Changeover

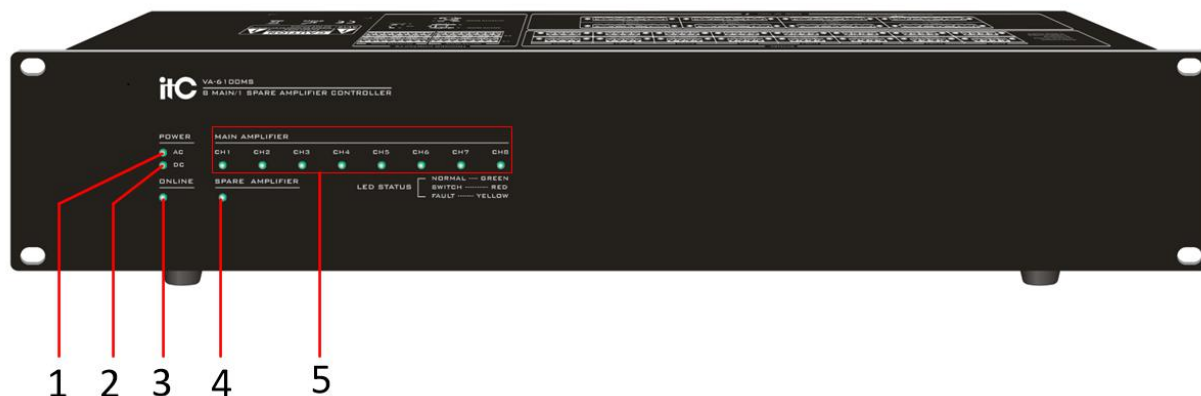
VA-6100MS changeover is an integrated controller supporting main and standby amplifier switching, speaker circuit grounding detection, open circuit and short circuit detection; compatible with 3/4 wired volume controller amplifier wiring, no need extra wiring or power supply; combining 8 programmable dry contact or wet contact trigger inputs and 8 programmable on-line output signal. It works with class D amplifiers, traditional amplifiers to provide a safe, affordable solution to the PA & Voice Alarm system.



4.2.1.Feature

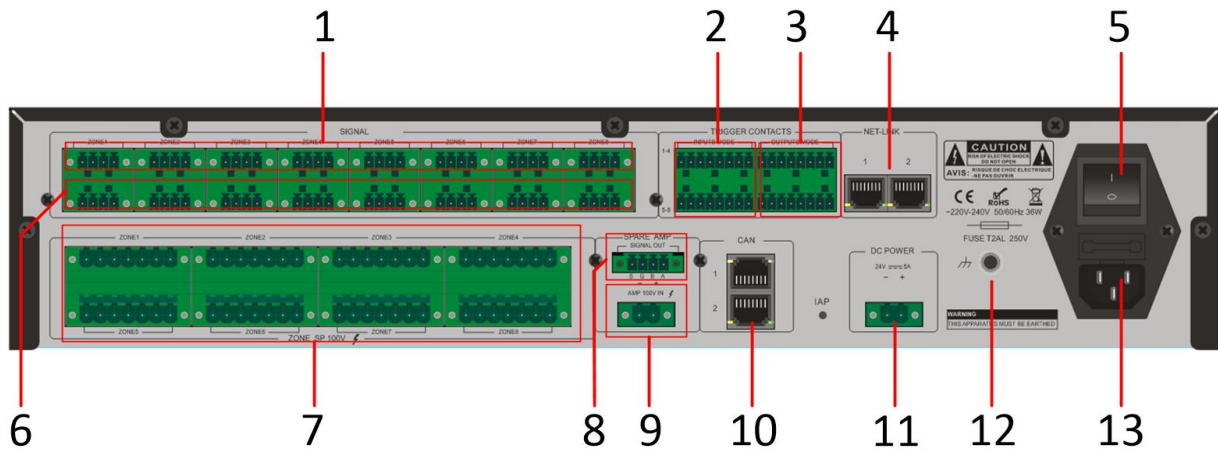
1. Adopt 2U cabinet, with highly integrated, and modularized design.
2. Support speaker circuit grounding, open circuit and short circuit detection.
3. Support 3/4 wired speaker loop wiring.
4. 8 programmable trigger input interfaces.
5. 8 programmable trigger output interfaces.
6. Support power amplifier enter power saving mode to save energy when no signal input.
7. Support the connection with linkage fire alarm controller to realize fire alarm linkage control.

4.2.2.Front panel



No.	Name	Description
1	AC power indicator	Green - AC power supply of the changeover is normal; Yellow - AC power supply of the changeover is faulty;
2	DC power indicator	Green - indicates that the DC standby power supply is normal; Yellow - indicates that the DC standby power supply is faulty; Off - indicates that no standby power supply is configured;
3	Online status indicator	Green - indicates that the network connection is normal; Yellow - indicates that the controller cannot be connected;
4	Standby amplifier status indicator	Green - the standby amplifier works normally; Yellow - the standby amplifier is faulty Red - indicates that the main amplifier is faulty, and its work task has been transferred to the standby amplifier.
5	Main amplifier status indicators	Green - the amplifier works normally; Yellow - the amplifier is faulty; Red - indicates that the main amplifier is faulty and its work task has been transferred to the standby amplifier.

4.2.3.Rear panel



No.	Name	Description
1	Local balanced audio input interfaces	8 local balanced audio signal inputs, external balanced audio signal and other audio source devices
2	Trigger input interfaces	8 programmable fire linkage input interfaces, supporting short-circuit mode or level mode, configured by the configuration tool; Short-circuit mode - states include normal and trigger; Level mode - states include open, shorted, triggered and normal
3	Trigger output interfaces	8 programmable fire linkage output interface. The output type is relay short-circuit output;
4	Network interfaces	External switch
5	Power switch	Equipment switch on/off
6	Balanced audio output interfaces	8-way balanced audio signal and amplifier standby signal output interface, for signal input end of the external main amplifier
7	Zone 100V input/output interfaces	1 ~ 8 zone audio power signal output, external speakers or three/four-wire voice control box, etc.;
8	Standby amplifier audio output interfaces	Balanced audio signal and standby signal output of the standby amplifier for signal input end of the external standby amplifier;
9	Standby amplifier 100V	100V power audio signal input of standby amplifier (100V

	input interfaces	output for external standby amplifier)
10	CAN interfaces	External charger
11	DC power input interfaces	24V DC power input
12	Ground terminal	Nickel-plated copper column with flat washer and screw cap
13	AC power supply interface	AC power input

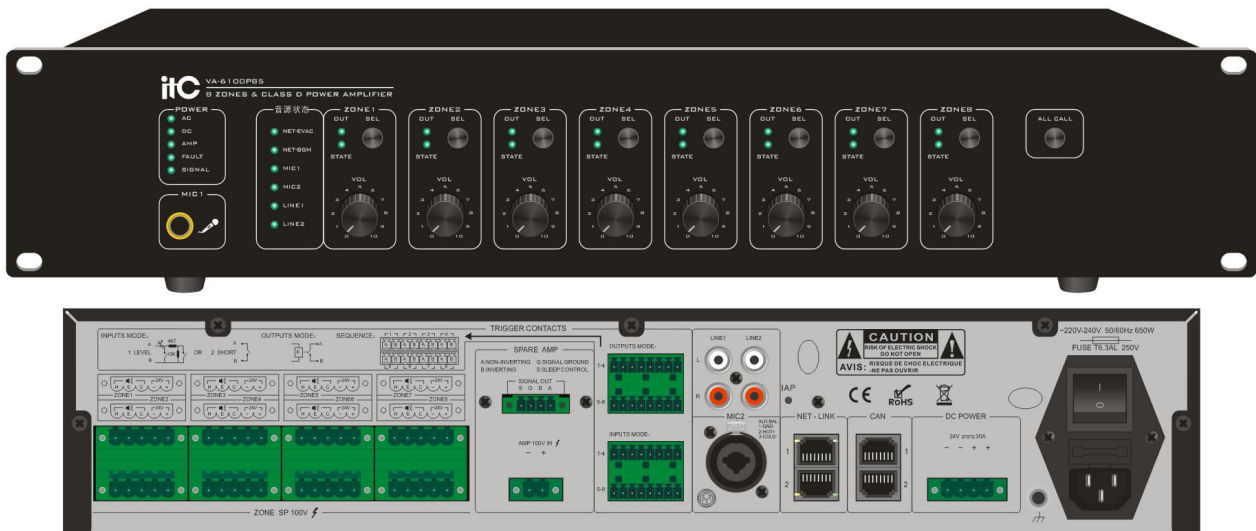
4.2.4. Technical parameters

AC power supply	
Voltage	AC 110-240V 50-60Hz
Max. current	<0.5A
Fuse specification	250V/1A, slow speed type
DC power supply	
Voltage	DC 24V, 18-31V Self-adaptive
Max. Current	<5A
Max. power consumption	120W
Performance index	
Number of output zones	Up to 8
Output voltage	100V
Output type	Bridge output of transformerless boost
Output power	500W (max. output for single zone)
Max. output power	8×500W
Strong cut type	3-wire and 4-wire
4-wire system strong cut output voltage	24V
Amplifier state detection time	<0.5S
Zone detection status	Short circuit, open circuit, short circuit to ground
Zone detection time	<0.5S
Contact output	
8 programmable relay outputs	Short circuit, no voltage
8 programmable trigger inputs	Short-circuit input, short-circuit input with detection, voltage input
Short-circuit mode	3.3V, short circuit trigger, no linkage line monitoring function

Short-circuit mode with detection	3.3V, short circuit trigger, support linkage line fault alarm
Voltage mode	18-31V voltage input, voltage trigger, support linkage line fault alarm
Cooling mode	Air-cooled
Protection mode	Time delay/over temperature/short circuit/overload

4.3.VA-6100P85 8-zone Amplifier

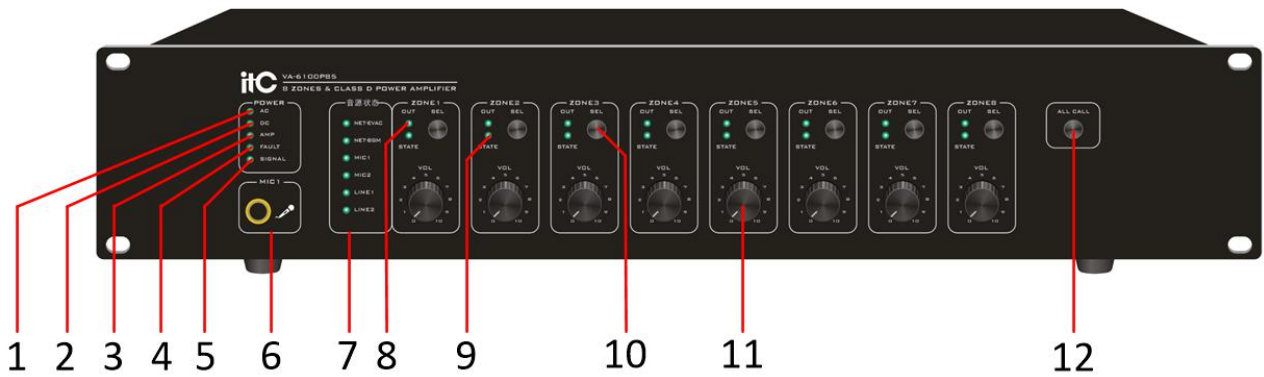
With 2U cabinet design, it is built-in a 500W digital amplifier and integrated to be 8 independent power zones, and can be installed in the broadcasting room or remote control room. It shares the network audio source with the system via Ethernet, also supports 4 channel local signal inputs. It's the ideal choice for small or medium system.



4.3.1.Feature

1. Support the speaker loop grounding, open circuit and short circuit detection.
2. Support 3/4 wired speaker loop wiring.
3. 8 Programmable trigger input interfaces.
4. 8 Programmable trigger output interfaces.
5. Support power amplifier enter power saving mode to save energy when no signal input.
6. Support linkage with fire alarm control unit to realize fire alarm linkage control.

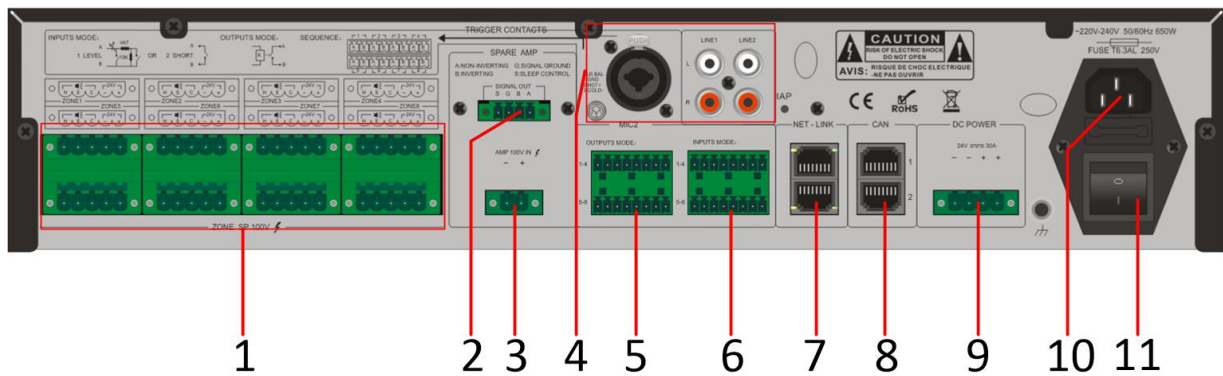
4.3.2.Front panel



No.	Name	Description
1	AC power indicator	Green - AC power supply of the changeover is normal; Yellow - AC power supply of the changeover is faulty;
2	DC power indicator	Green - indicates that the DC standby power supply is normal; Yellow - indicates that the DC standby power supply is faulty; Off - indicates that no standby power supply is configured;
3	Amplifier status indicator	Green - the amplifier module is normal; Yellow - the amplifier module is faulty;
4	Fault indicator	Yellow - indicates that the 8-zone amplifier is faulty; Off - indicates that the 8-zone amplifier is normal;
5	Signal indicator	Green flashing - indicates that there is a network audio signal input; Off - indicates that the 8-zone amplifier has no network audio input;
6	Local microphone 1 interface	Connect to the microphone for local microphone broadcasting
7	Audio source indicators	Sound source lights up, indicates that the current 8-zone amplifier inputs the sound source
8	Zone output status indicator	Off - the current zone is off; Green - the current zone is working and the output is normal audio Red - the current partition is working and the emergency audio source is output, such as EVAC/ALERT/PTT/FM paging;
9	Zone status indicator	Green - the current zone is working normally; Yellow - the current zone is faulty (including open circuit, short circuit and grounding) Off - the current partition is disabled

		Flashing - Amplifier not configured
10	Zone output selection button	Open or close the zone
11	Zone volume adjustment knob	Adjust zone output volume
12	Zone output select all button	Select all eight zones

4.3.3.Rear panel



No.	Name	Description
1	Zone 100V output interfaces	8 way 100V power audio signal outputs, external 3 or 4-wire voice control box or speakers;
2	Standby amplifier signal output interfaces	Balanced audio signal and standby signal output of the standby amplifier for the signal input end of the external standby amplifier;
3	Standby amplifier 100V input interfaces	100V power audio signal input of the standby amplifier (100V output for external standby amplifier);
4	Microphone/line input interfaces	Microphone 2 - multiplexed interface. As microphone input when the 6.35mm plug is input, and line balanced audio input when the XLR head is input; Line 1/Line 2 - line input with RCA interface;
5	Trigger output interfaces	8 programmable fire linkage output interface. The output type is relay short-circuit output
6	Trigger input interfaces	8 programmable fire linkage input interfaces, supporting short-circuit mode or level mode, configured by the configuration tool; Short-circuit mode - states include normal and trigger; Level mode - states include open, shorted, triggered and normal

7	Network interfaces	External exchange
8	CAN interfaces	External charger port
9	DC power input interfaces	24V DC power input
10	Power switch	Nickel-plated copper column with flat washer and screw cap
11	AC power supply interface	AC power input

4.3.4. Technical parameters

AC power supply	
Voltage	AC 110-240V 50-60Hz
Max. current	3A
Fuse size	250V/3.15A, slow speed type
DC power supply	
Voltage	DC 24VC,18-31V Self-adaptive
Max. current	30A
Max. Power consumption	600W
Performance index	
Number of output zones	8
Output voltage	100V optional
Output type	Bridge output of transformerless boost
Output power	500W (max. output for single zone)
Distortion	<1% (rated output power), 1KHz
Frequency response	80Hz-16KHz
SNR	>68dB
Max. output power	500W
Strong cut type	3-wire and 4-wire
4-wire system strong cut output voltage	24V
Amplifier state detection time	< 0.5S
Zone detection status	Short circuit, open circuit, short circuit to ground
Zone detection time	< 0.5S

Contact output	
8 programmable relay outputs	Short circuit, no voltage
8 programmable trigger inputs	Short-circuit input, short-circuit input with detection, voltage input
Short-circuit mode	3.3V, short circuit trigger, no linkage line monitoring function
Short-circuit mode with detection	3.3V, short circuit trigger, support linkage line fault alarm
Voltage mode	18-31V voltage input, voltage trigger, support linkage line fault alarm
Cooling mode	Air-cooled
Protection mode	Time delay/over temperature/short circuit/overload

4.4.VA-6100RT Remote Paging Microphone

VA-6100RT is used for remote operation of VA-6100 system, allowing users to remotely control system voice information and zones paging. It supports system zones/groups selection, zones monitoring, zones volume adjustment, zones status display.



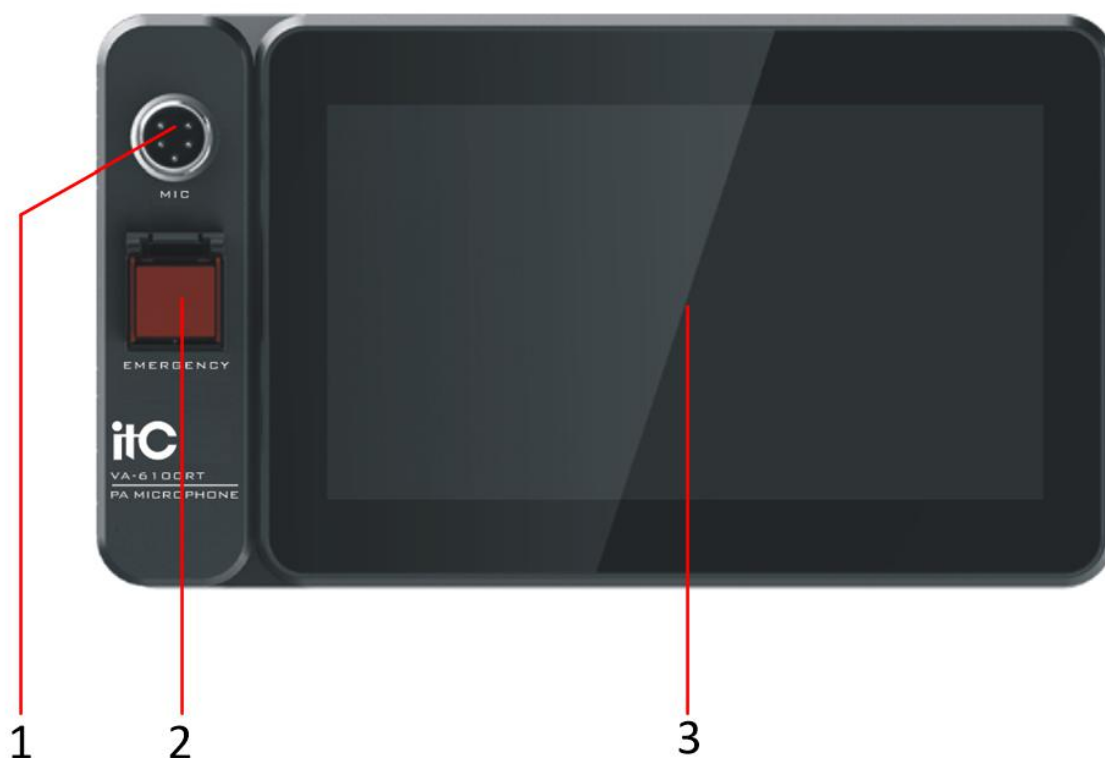
4.4.1.Feature

1. IPS HD full view display, graphical touch operation, what you see is what you get.
2. System synchronizes the zones/groups name display, simple operation.
3. Text display partition status display, more images, more content.
4. It can adjust the volume for each zone and monitor the current playing content of each zone.
5. The rear panel can be used for external audio source and can be broadcast to any zone.

6. Standard Ethernet digital transmission can extend the transmission distance through optical fiber.

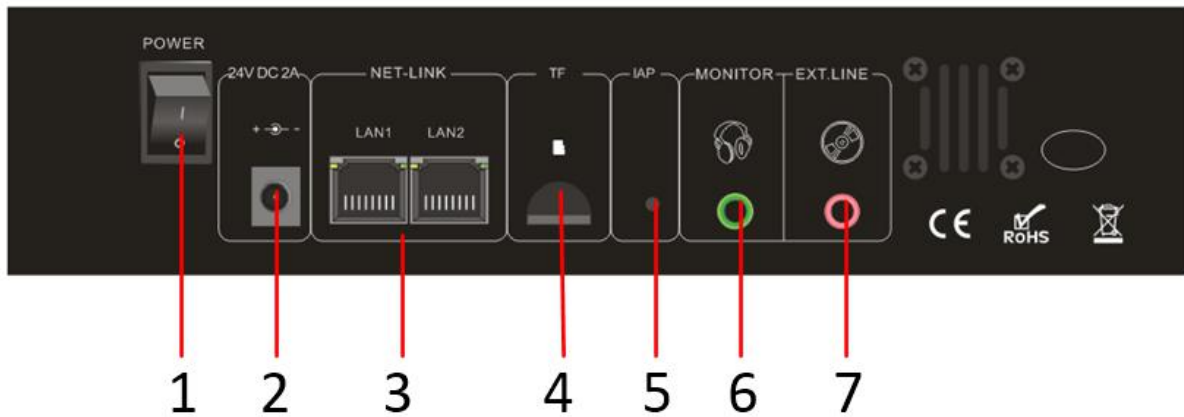
7. The priority and emergency voice operating privileges of the VA-6100RT can be configured by the system.

4.4.2. Front panel



No.	Name	Description
1	Goose-neck microphone interface	Connect to goose-neck microphone
2	Emergency button	Access to emergency mode
3	Human-machine interaction interface	Operate the system via the touch screen

4.4.3.Rear panel



No.	Name	Description
1	Power switch	Switchgear
2	DC power interface	Device power interface
3	Online interfaces	Connect to a switch to communicate with the controller
4	TF interface	Insert TF card to store audio files
5	IAP key	Reserve key
6	Monitor output interface	Monitor audio output, can be connected to external monitor headphones or other monitoring devices
7	Extended line input interface	Connect to external audio source device

4.4.4.Technical parameters

Display screen	
Size	7 inches
Resolution	1024 x 600
Viewing angle	Full viewing angle
Touch screen type	Capacitive screen
Power supply	
Voltage	DC 24V, 18-31V Self-adaptive
Max. current	0.5A
Max. power consumption	12W
Standby power consumption	9W
Performance index	

Line input	
Sensitivity	775mV
Input impedance	10K Ω
Microphone input	
Microphone types	415mm goose-neck microphone
Mic type	Electret type
Sensitivity	10mV
Impedance	250 Ω
Monitor audio output	
Rated output	0.7V
Output power	30mW (drives 16-32 Ω headphones)
Frequency response	200Hz~16KHz
Distortion	<1% (rated output power), 1KHz
SNR	>68dB
Monitor speaker	
Output power	1.5W
Impedance	4 Ω
Size	246mm×115mm×54.5mm

4.5.VA-6100FM Fireman Microphone

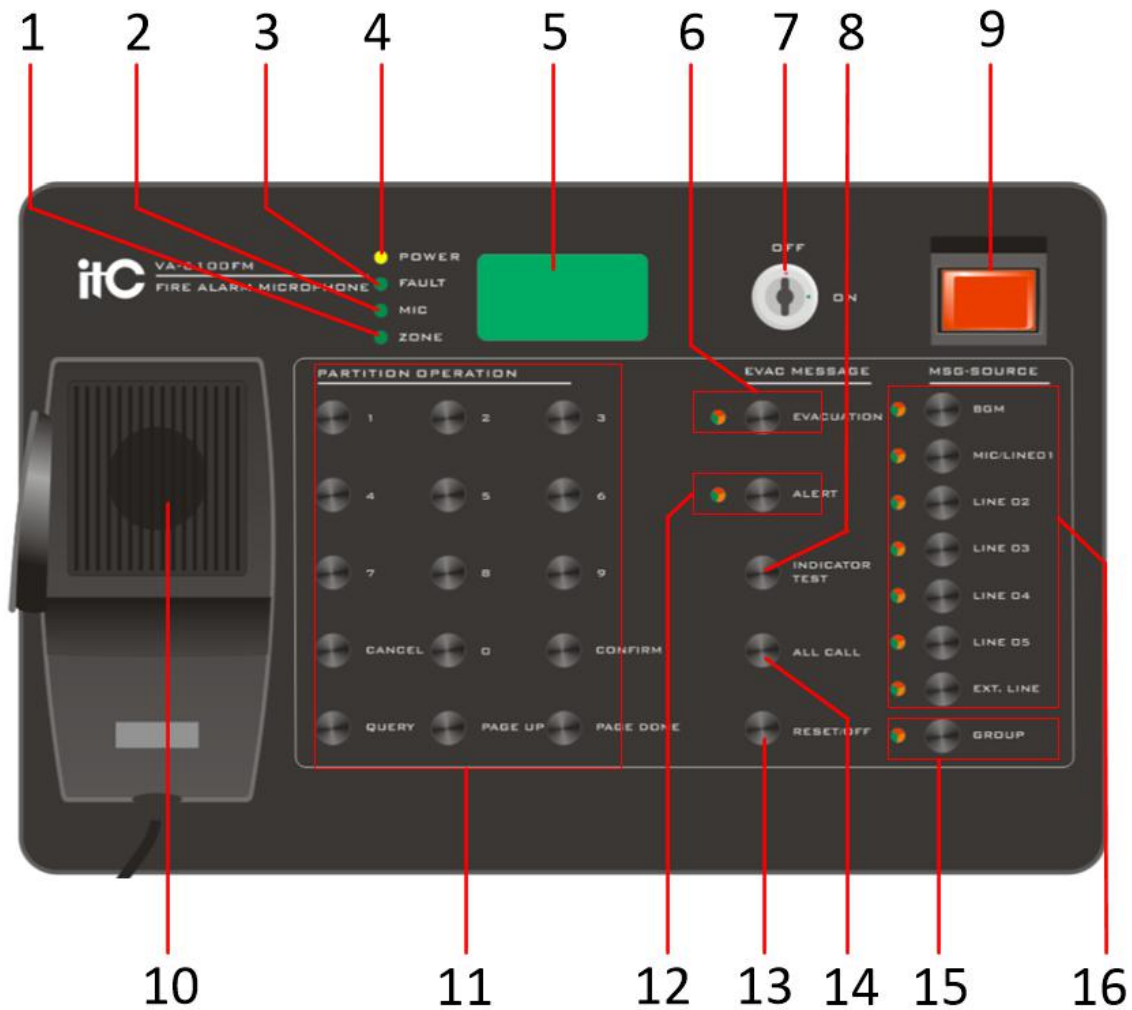
VA-6100FM is used for remote control of VA-6100 system, allowing users to remotely control system voice information and zone paging, and supports background broadcast, fire alarm, microphone paging and other functions.



4.5.1.Feature

1. Support key lock function;
2. Support microphone paging;
3. Support multi-source broadcasting;
4. Support fire alarm function;
5. Support local audio monitoring function;
6. Support zone/group selection;
7. Support line audio input and the input volume is adjustable.

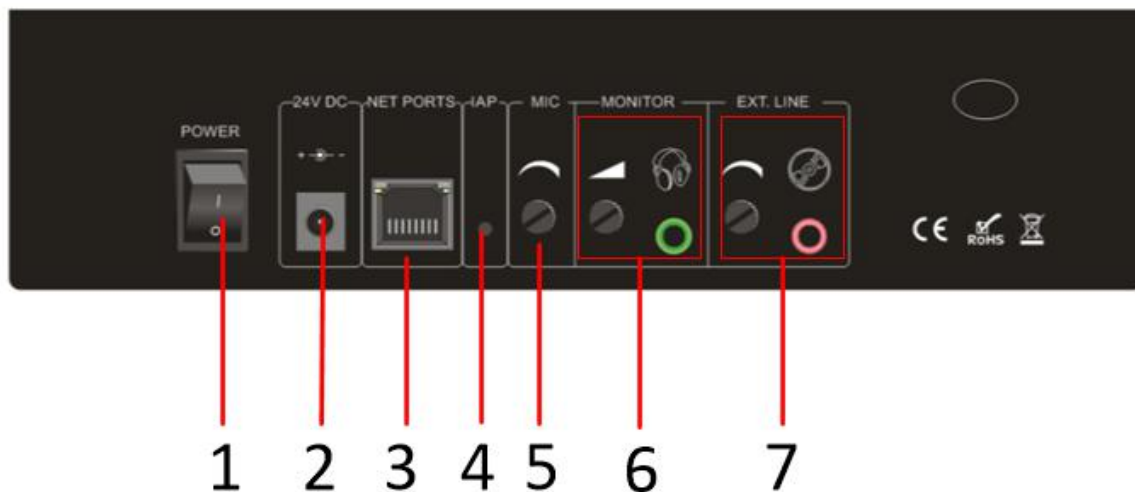
4.5.2. Front panel



No.	Name	Description
1	Zone status indicator	Off - the current partition is idle Green - the current partition service is being broadcast Red - the current zone emergency broadcast is in progress
2	Microphone status indicator	Off - the microphone is normal; Green – broadcasting; Yellow - Microphone failure;
3	Fault indicator	Off - indicates there is no fault in the device; Red - indicates the device is offline; Yellow - indicates that the equipment has at least one fault;
4	Power indicator	Green - normal power supply; Yellow - faulty power supply;
5	LCD display	Display the selected zone
6	Evacuation voice key and its	Evacuation voice key: play the evacuation voice;

	indicator	Indicator light: Off - the evacuation voice is not playing; Red - the evacuation voice is playing;
7	Key lock switch	Device lock, opened to control the device, initiate tasks and other operations
8	LED test button	Panel indicator light test button: Press and all the indicator lights on the rear panel will change from red to green to yellow to return to normal display
9	Emergency key	Enter emergency status;
10	PTT microphone	Emergency microphone, press the button to initiate a broadcast;
11	Zone operation	Select the zone
12	Warning voice key and its indicator	Warning voice button: play warning voice; Indicator light: Off - the warning voice is not playing; Red - warning voice is playing
13	Fault reset and off key	Turn off partition selection or silence the device itself if it fails
14	All zone selection key	Select all zones
15	Group broadcast key and its indicator	Device zone/group control mode selection; Indicator light: Off - the device is in zone mode control; Green - the device is in group mode control;
16	Audio source selection keys and their indicators	Button: select audio source for playback; Indicator light: Off - the audio source is not playing; Green - the audio source is playing;

4.5.3.Rear panel



No.	Name	Description
1	Power switch	Switchgear
2	DC power interface	Device power interface
3	Online interface	Connect to a switch to communicate with the controller
4	IAP key	Reserve key
5	Microphone volume knob	Adjust the volume level of the microphone broadcast
6	Monitor output interface and its volume knob	Monitor audio output, can be connected to external monitor headphones or other monitoring devices; volume knob adjusts the volume of the monitor output
7	Extended line input interface and its volume knob	Connect to an external audio source device; volume knob adjusts the volume of the line input

4.5.4.Technical parameters

Power supply	
Voltage	DC24V, 18-31V Self-adaptive
Max. current	0.2A
Max. power consumption	5W
Standby power consumption	3W
Performance index	
Sensitivity	775mV
Input impedance	10kΩ

Microphone input	
Microphone types	PTT
Mic type	Moving-coil type
Sensitivity	10mV
Impedance	600Ω
Monitor audio output	
Rated output	0.7V
Output power	30mW (drives 16-32Ω headphones)
Frequency response	200Hz~16KHz
Distortion	<1% (rated output power), 1KHz
SNR	>68dB

4.6.VA-6100RM Remote Microphone

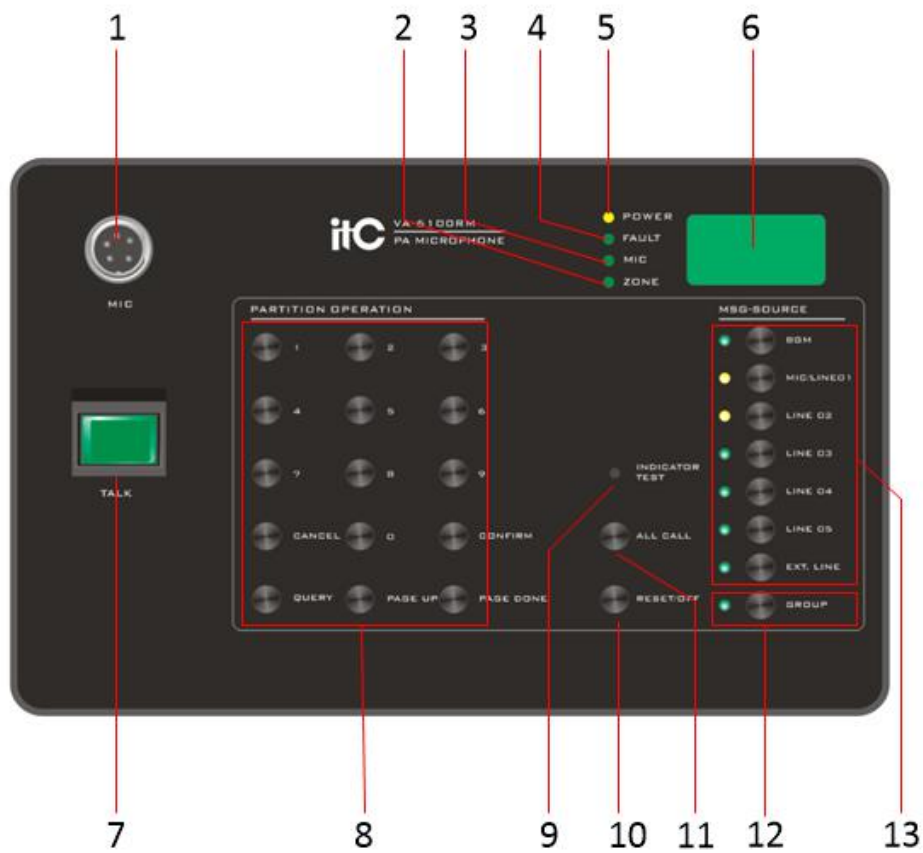
VA-6100RM is used for remote control VA-6100 system, allowing remotely control the system voice message information and zones paging by users, support background broadcast, microphone paging and other functions.



4.6.1.Feature

1. Support microphone paging;
2. Support multi-source broadcasting;
3. Support local audio monitoring function;
4. Support zone/group selection;
5. Support line audio input and the input volume is adjustable.

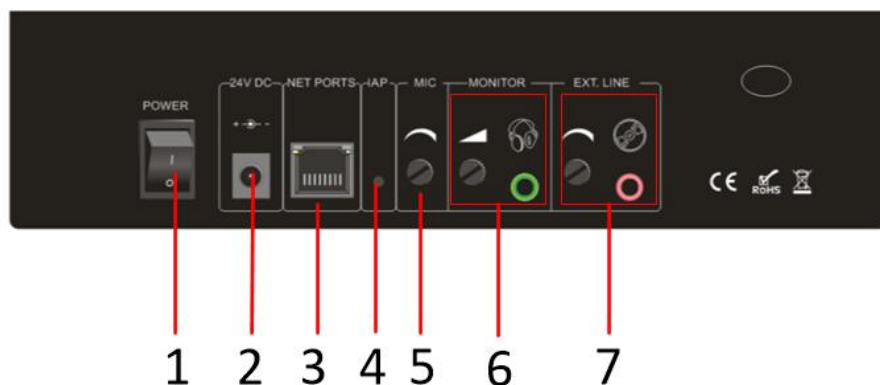
4.6.2.Front panel



No.	Name	Description
1	Microphone interface	Connect to goose-neck microphone
2	Zone status indicator	Off - the current partition is free Green - the current partition service is being broadcast Red - the current zone emergency broadcast is in progress
3	Microphone status indicator	Off - the microphone is normal; Green – broadcasting; Yellow - Microphone failure;
4	Fault indicator	Off - indicates there is no fault in the device;

		Red - indicates the device is offline; Yellow - indicates that the equipment has at least one fault;
5	Power indicator	Green - normal power supply; Yellow - faulty power supply;
6	LCD display	Display the selected zone
7	Speech key	Initiate microphone broadcast
8	Zone operation	Select zone
9	LED test button	Panel indicator test button: After pressing it, all indicators on the panel change from red - green - yellow - back to normal display.
10	Fault reset and off key	Turn off partition selection or silence the device itself if it fails
11	All zone selection key	Select all zones
12	Group broadcast key and its indicator	Device zone/group control mode selection; Indicator light: Off - the device is in zone mode control; Green - the device is in group mode control;
13	Audio source selection keys and their indicators	Button: select audio source for playback; Indicator light: Off - the audio source is not playing Green - the audio source is playing

4.6.3.Rear panel



No.	Name	Description
1	Power switch	Switchgear
2	DC power interface	Device power interface

3	Online interface	Connect to a switch to communicate with the controller
4	IAP key	Reserve key
5	Microphone volume knob	Adjust the volume level of the microphone broadcast
6	Monitor output interface and its volume knob	Monitor audio output, can be connected to external monitor headphones or other monitoring devices; volume knob adjusts the volume of the monitor output
7	Extended line input interface and its volume knob	Connect to an external audio source device; volume knob adjusts the volume of the line input

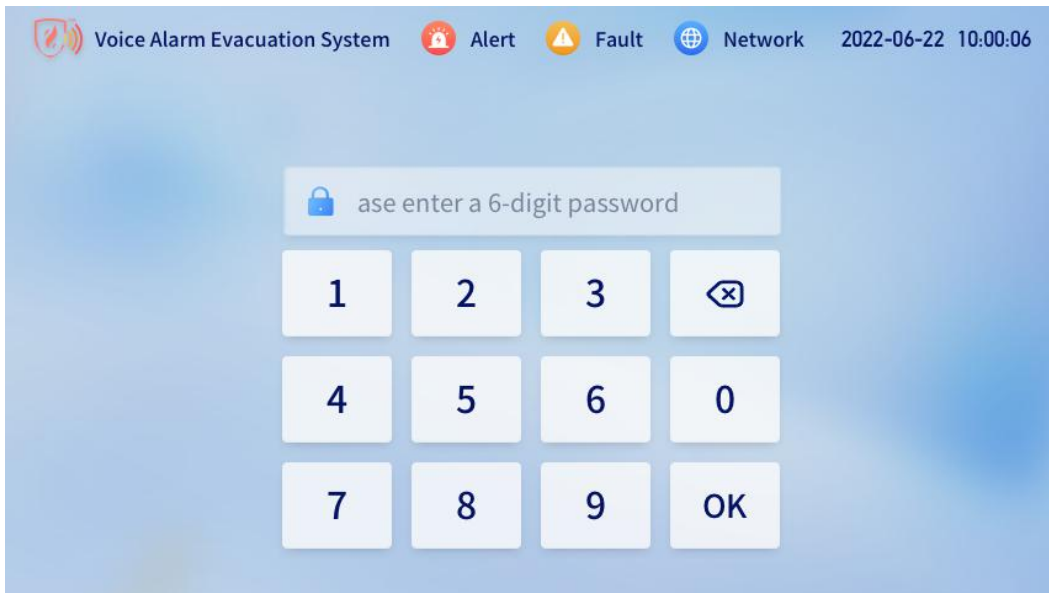
4.6.4. Technical parameters

Power supply	
Voltage	DC 24V, 18-31V Self-adaptive
Max. current	0.2A
Max. power consumption	5W
Standby power consumption	3W
Performance index	
Line input	
Sensitivity	775mV
Input impedance	10k Ω
Microphone input	
Microphone types	415mm goose-neck microphone
Mic type	Electret type
Sensitivity	10mV
Impedance	600 Ω
Monitor audio output	
Rated output	0.7V
Output power	30mW (drives 16-32 Ω headphones)
Frequency response	200Hz~16KHz
Distortion	<1% (rated output power), 1KHz
SNR	>68dB

5.Host Interface Introduction

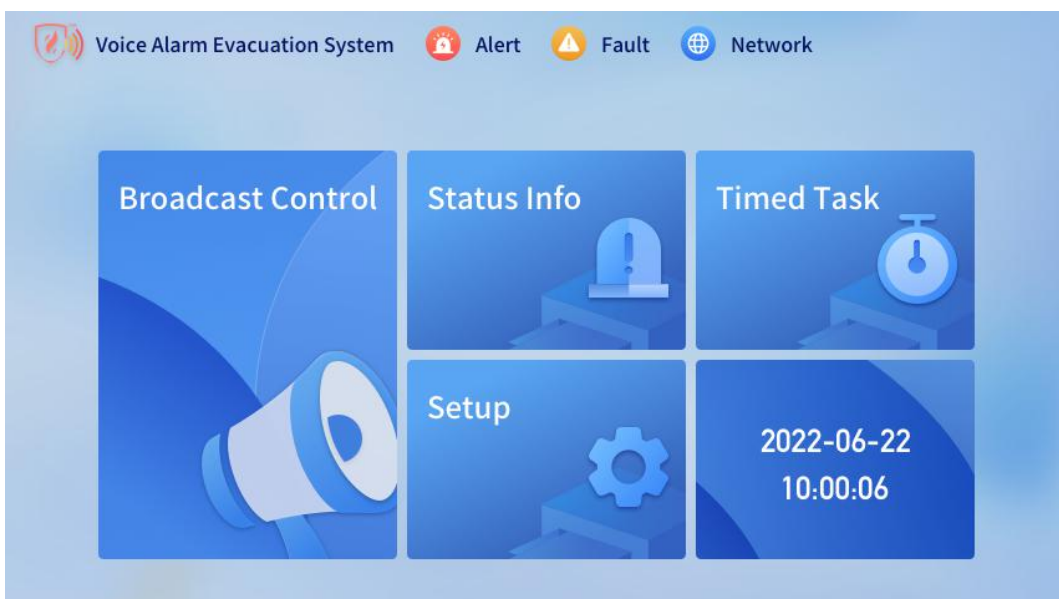
5.1.Lock screen interface

If no operation is performed for a period of time after the device is powered on, it automatically enters the lock screen. Enter the 6-digit password and click OK to unlock. The password is set by the PC client. If no screen lock password has been set for the device, then just touch the screen to unlock without entering the password.



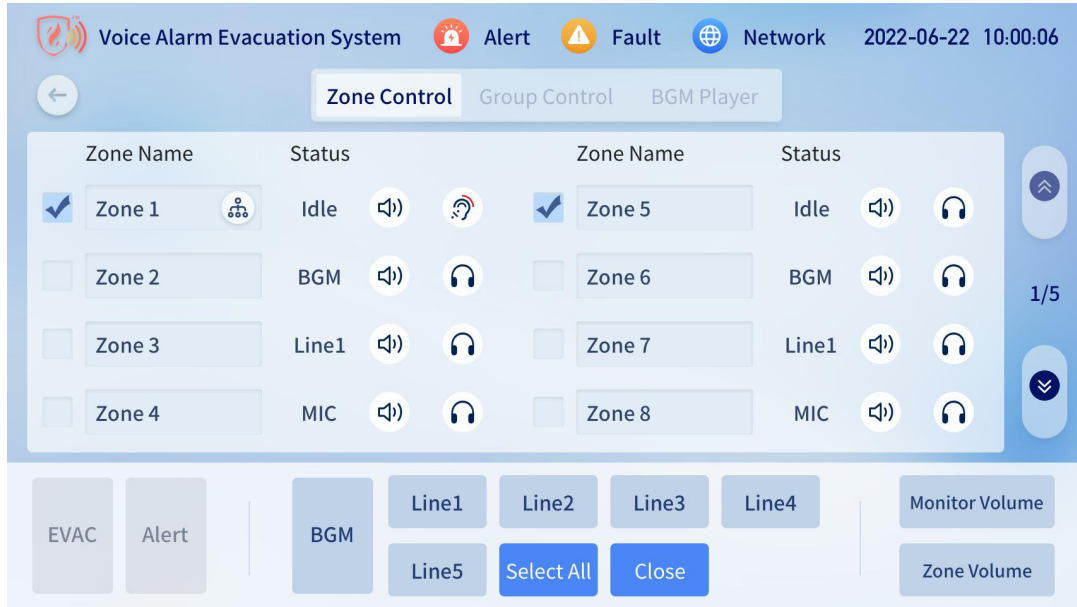
5.2.Home page

After logging into the device, you will enter the home page. The home page is divided into Broadcast control, Status information, Timed tasks, settings, and Time and date bars.



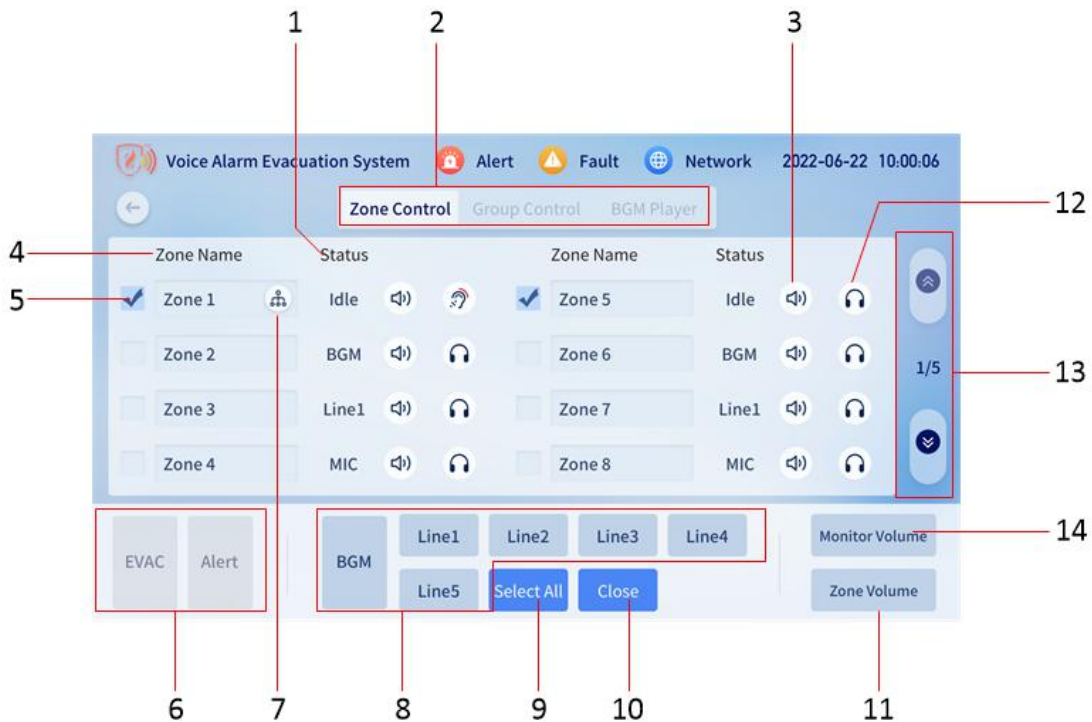
5.3. Broadcast control

Click Broadcast control bar on the home page to enter the Broadcast control interface, in which you can conduct zone control, group broadcasting or monitoring, volume control, background music playback and other operations.

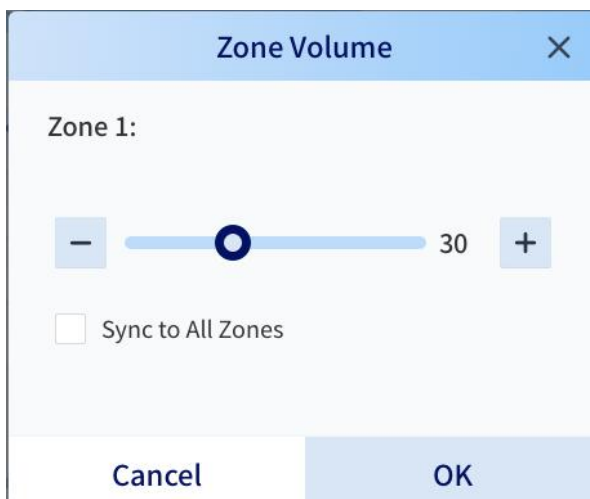


5.3.1. Zone control

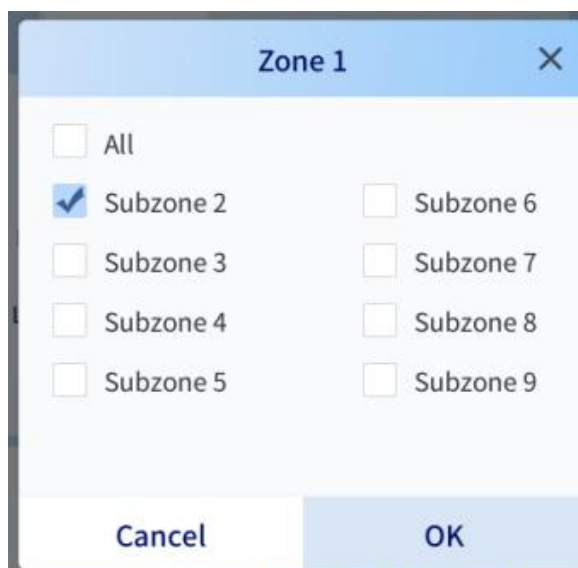
Zone control allows zone status viewing, zone control, monitor, zone volume control, background music playback, emergency sources playback, etc.



1. Zone status, showing the current working status of each zones. When Idle is displayed, it means that the current zone is not performing the broadcasting task; when audio source is displayed(e.g. BGM, line1, etc.), it means that this zone performs this audio source playback task.
2. Interface switching, which allows switching zone control, group control and BGM player interface
3. Volume adjustment, used to adjust the volume level of the zone, and there is a pop-up window after clicking. If Synchronize to all zones is selected, the output volume of all zones is modified all at once (except for emergency source broadcast, with the default of maximum volume output)




4. Zone name, displaying the name of the zone, which is edited on PC software
5. Selection box, supporting multiple selections; ticking means the zone is selected
6. Emergency audio, which is initiated by only entering the emergency state, otherwise the key is set grey and cannot be selected
7. Sub-zone icon. Zone name with this icon indicates that this zone is a sub-zone of VA-6100P85. Click to select the sub-zone of P85



- 8. Normal audio sources, including BGM and five line inputs
- 9. Select All key. Click to select all zones
- 10. Shut off key. Tick the zones, click the Shut off key to end the zone broadcast.
- 11. Batch adjustment of zone volume. Select the zones before clicking, supporting multiple selections, and adjust the volume of the selected zone in a unified manner



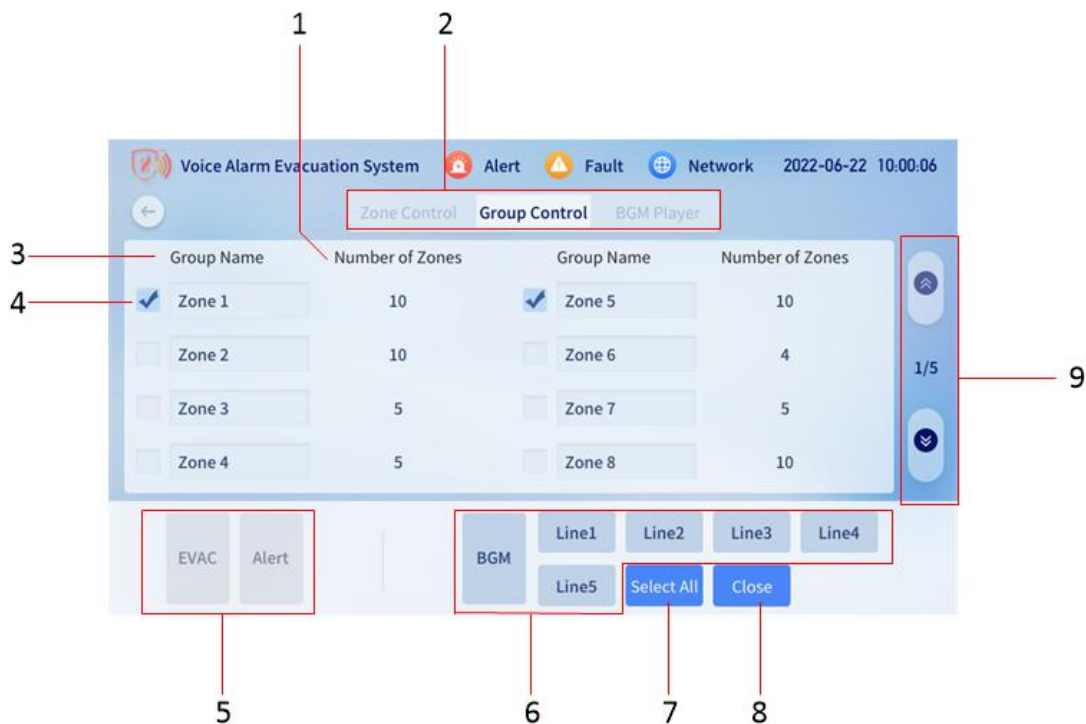
12. Monitor. Monitor the zone after clicking, and the icon will change to 

13. Page turning

14. Monitor the volume adjustment

5.3.2. Group control

Grouping allows one or more zones to be added to a group. When an operation is performed on this group, it applies to all zones under the group.



1. Number of zones, indicating how many zones the group contains

2. Interface switching, which allows switching zone control, group control and BGM player interface
3. Zone name, which is edited on PC software
4. Selection box, supporting multiple selections; ticking means the zone is selected
5. Emergency audio, which is initiated by only entering the emergency state, otherwise the key is set grey and cannot be selected
6. Normal audio sources, including BGM and five line inputs
7. Select All key. Click to select all zones
8. Shut off key. Tick the zones, click the Shut off key to end the zone broadcast (except for emergency audio broadcast)
9. Page turning

5.3.3.BGM player

When a zone is playing a BGM sound source, you can switch to the BGM player interface to operate on playlist, playback mode, and so on.



1. The name of the currently playing song
2. Playback mode, used to switch to Single cycle, Loop playback, Shuffle playback, List loop and others
3. Volume down
4. Previous song

5. Pause key
6. Next song
7. Volume up
8. Selection box. Tick the audio, supporting multiple selections. After selection, click Apply to save, and the system will play the ticked and applied songs
9. Page turning
10. Page switching, for switching zone control, group control and BGM player interface.
11. Apply.

5.4. Status information

Click Status information bar on the home page to enter the system information view interface, where you can view the device status and audio source status.

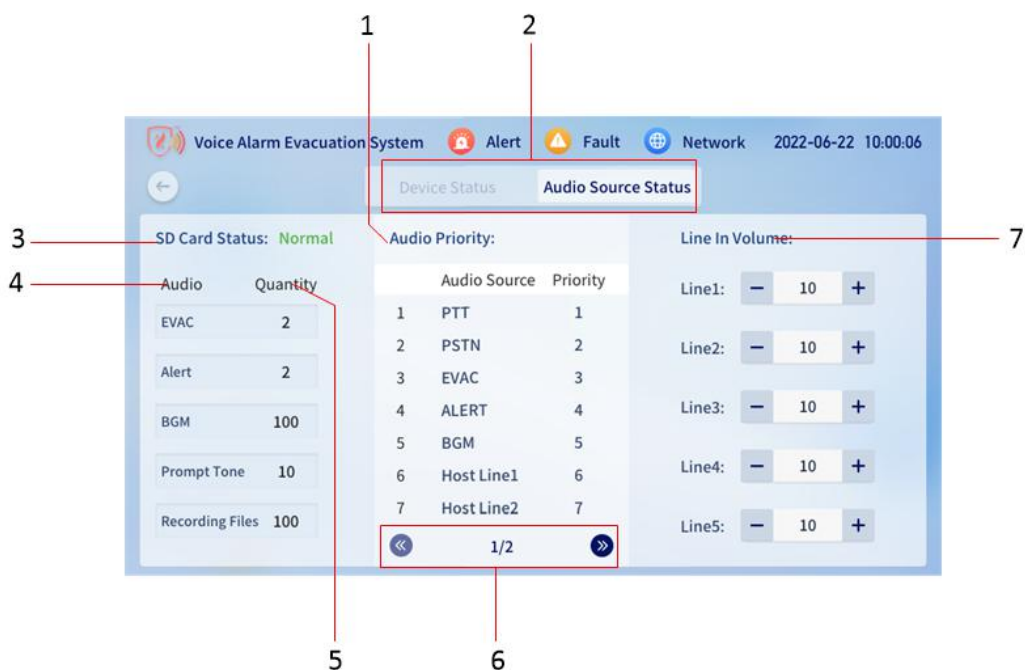
Device Status			Audio Source Status		
Device Name	Device Status	Firmware Version	Device Name	Device Status	Firmware Version
1 主机	● Normal	1.0.2	8 倒备机1	● Normal	1.0.2
2 分区功放1	● Fault	1.0.2	9 倒备机2	● Normal	1.0.2
3 分区功放2	● Offline	1.0.2	10 RT麦克风1	● Normal	1.0.2
4 分区功放3	● Normal	1.0.2	11 RT麦克风2	● Normal	1.0.2
5 分区功放4	● Normal	1.0.2	12 消防麦克风1	● Normal	1.0.2
6 分区功放5	● Normal	1.0.2	13 消防麦克风2	● Normal	1.0.2
7 分区功放6	● Normal	1.0.2	14 业务麦克风	● Normal	1.0.2

5.4.1. Device status



1. Device status, including Normal, Faulty, Offline
2. Interface switching, which allows switching the device status and audio status interface
3. Device name, which is edited on PC software
4. Firmware version, the firmware burned by the current device
5. Page turning

5.4.2. Audio source status



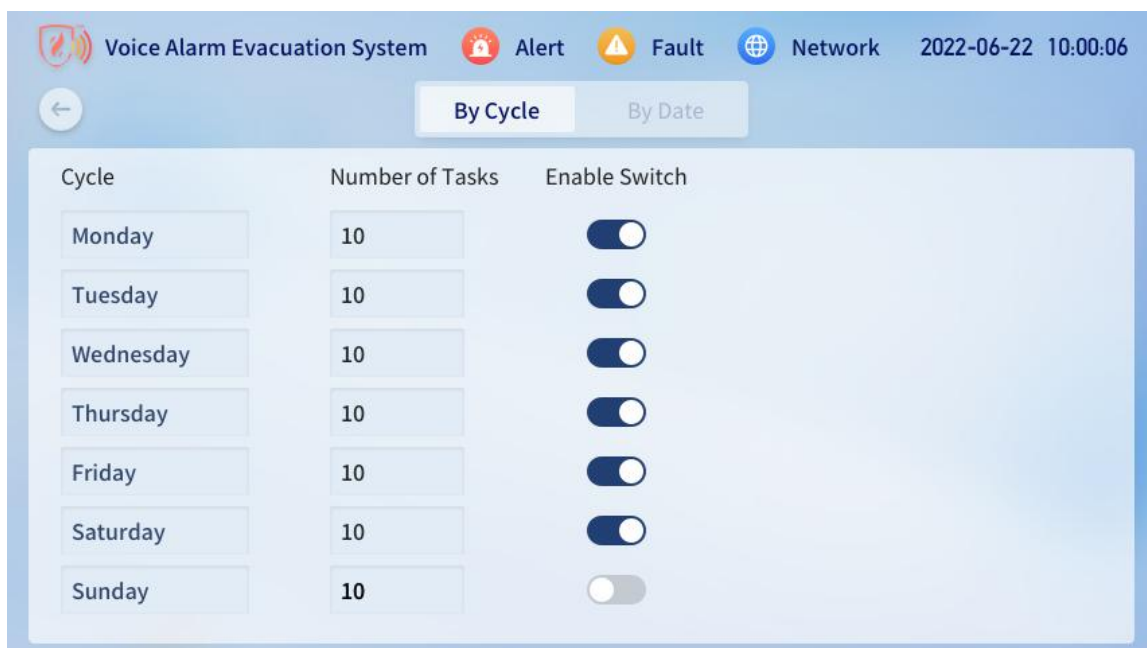
1. Audio priority, indicating the priority level of audio playback. High priority audio can interrupt the playback of low priority audio. The smaller the priority number, the higher the audio priority. It is modified on PC software
2. Interface switching, which allows switching the device status and audio status interface
3. SD card status, the status of the SD card that stores audio files. A fault is reported if the SD card is damaged or not inserted
4. Audio types stored on the SD card, including EVAC, Alert, BGM, Cue, Recorded files, etc.
5. Number of audio files of each type stored on the SD card
6. Page turning
7. Line input volume, adjusting the input volume of the host's five line inputs

5.5.Timed tasks

Click Timed tasks bar on the home page to enter the Timed tasks interface, where you can view the configured timed tasks and enable or disable them. Timed tasks are configured on PC software.

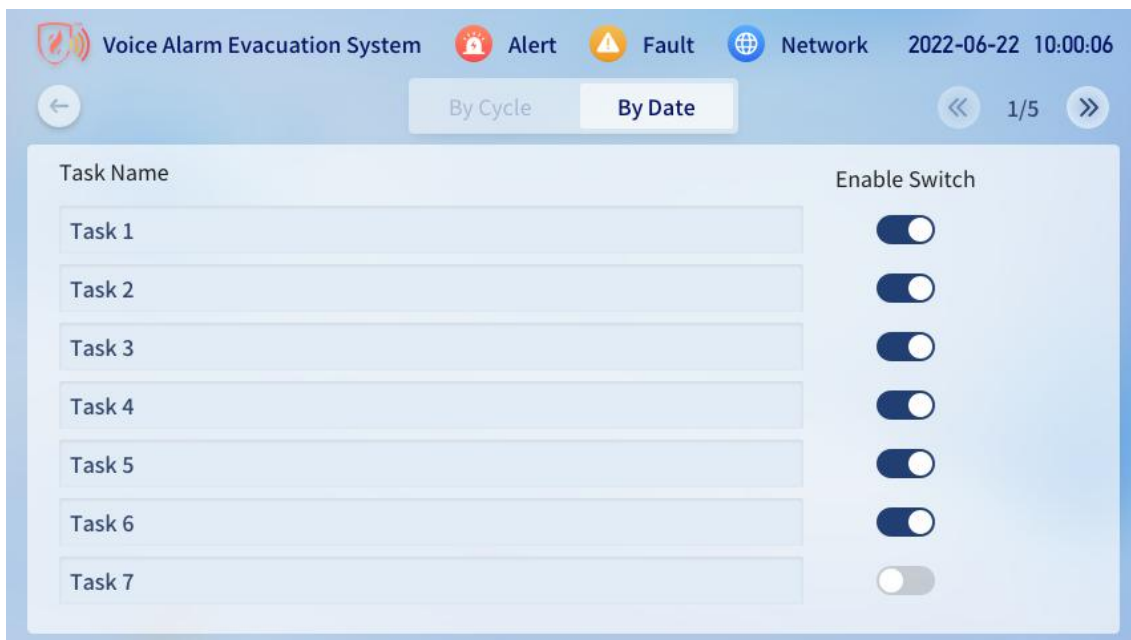
5.5.1.Period

The timed tasks that are set to play periodically, excluding tasks by date. Period refers to the tasks by day of the week, and the total number of scheduled tasks executed on that day is displayed. If the Enable switch is turned off, all tasks for that day will no longer be executed. Specific timed tasks are configured on PC software and can only be enabled or disabled by the host interface.

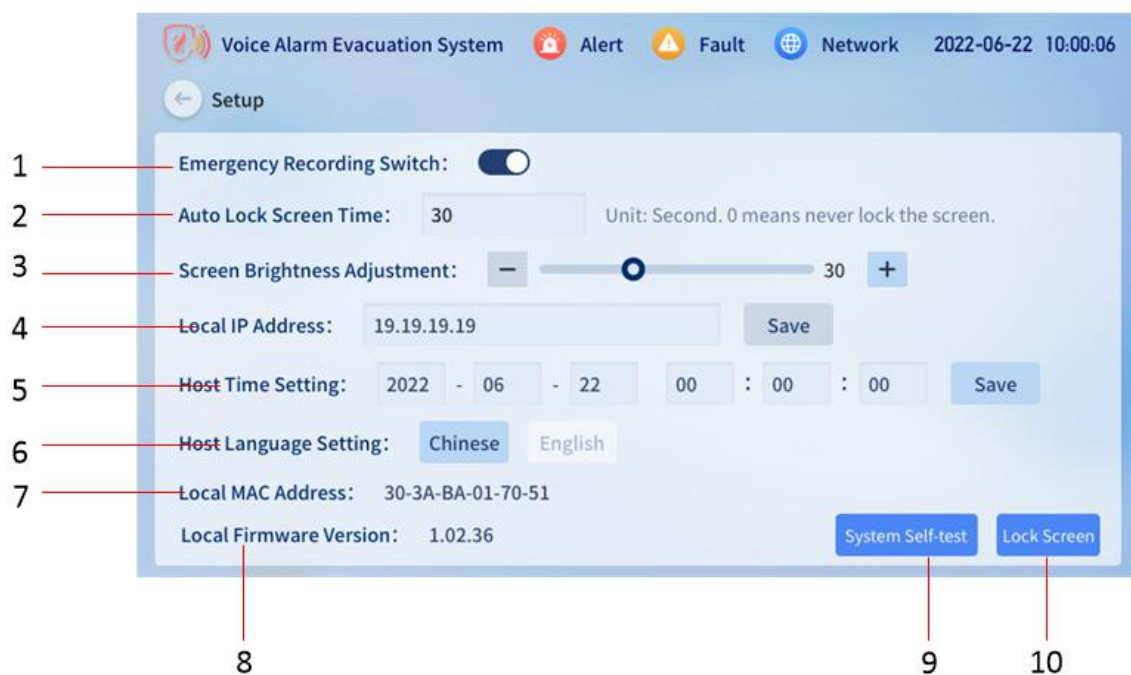


5.5.2.Date

The timed tasks that are set to play by date, excluding tasks by period. If the Enable switch is turned off, the tasks will no longer be executed. Specific timed tasks are configured on PC software and can only be enabled or disabled by the host interface.



5.6.Settings

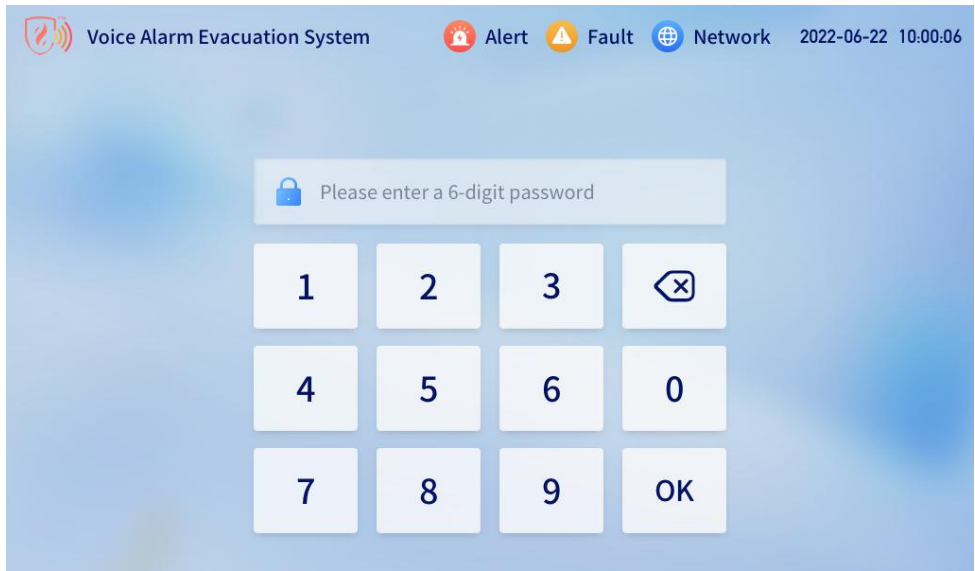


1. Emergency recording switch. When opened, it will automatically record the speech of PTT microphone, and the audio file is stored in the SD card of the host
2. Auto-lock time, used to set the host screen to lock after no operation for a certain time, up to 3600 seconds, and 30 seconds by default. If the value is set to 0, the screen is never locked, the minimum lock screen time is 10s.
3. Screen brightness adjustment, used to set the display brightness of the host screen
4. Local IP address, used to set the host IP address
5. Host Time, used to set the time displayed by the host
6. Host language, used to switch the voice displayed by the host, which is divided into Chinese and English, for real-time switching
7. Local MAC address, the MAC address of the host
8. Local firmware version, the firmware version of the host
9. System self-test, self-test of sound and light components. After pressing it, all indicators on the panel change from green - red - yellow - back to normal display
10. Lock screen

6.RT Interface Introduction

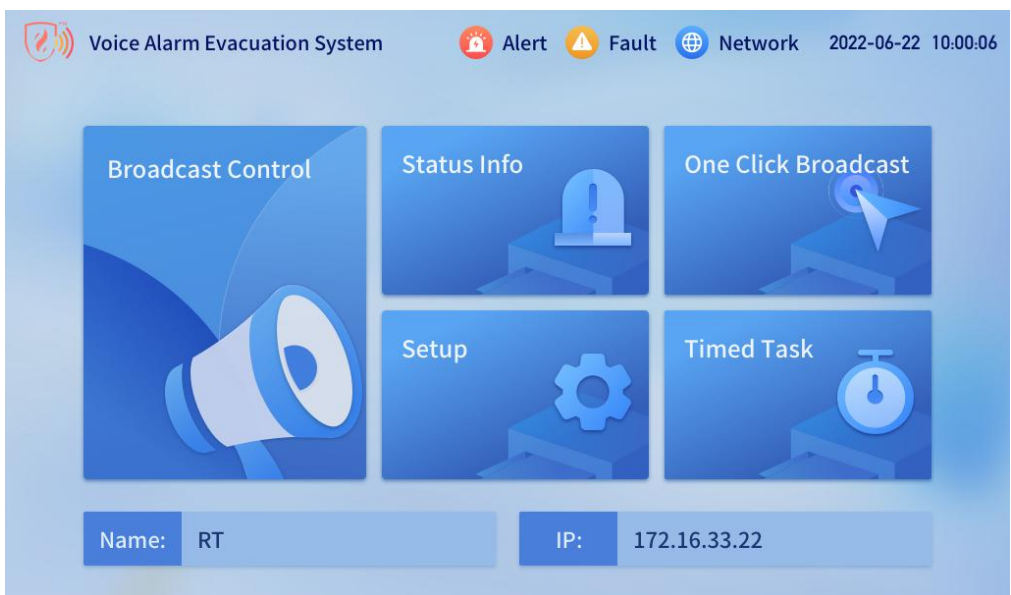
6.1.Lock screen interface

If no operation is performed for a period of time after the device is powered on, it automatically enters the lock screen. Enter the 6-digit password and click OK to unlock. If no screen lock password has been set for the device, then just touch the screen to unlock without entering the password.



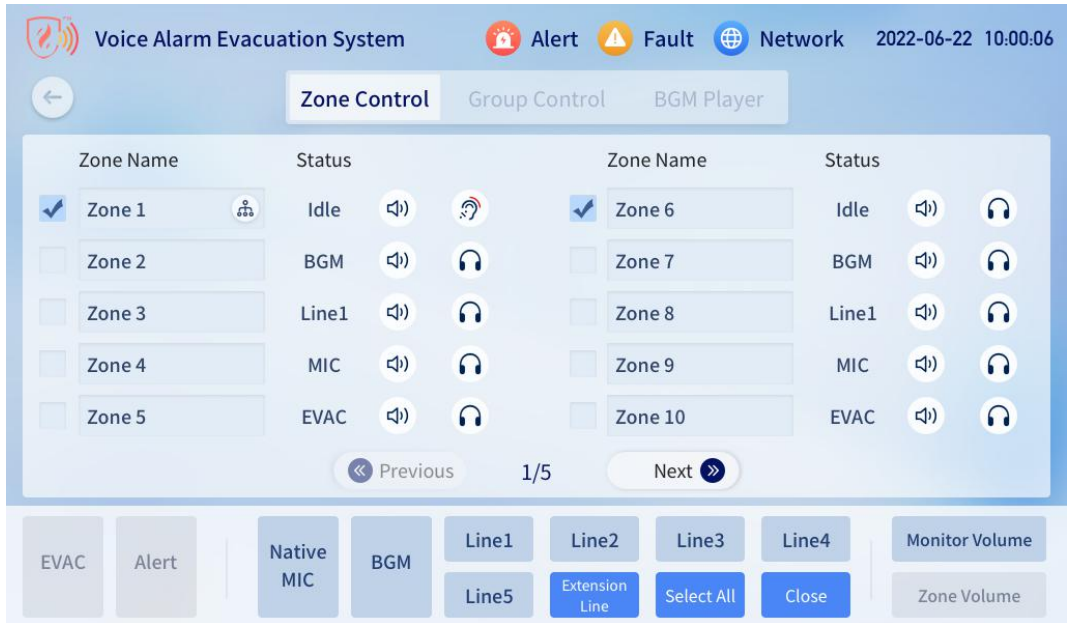
6.2.Home page

After logging into the device, you will enter the home page. The home page is divided into Broadcast control, Status information, Timed tasks, settings, and Local information bars.



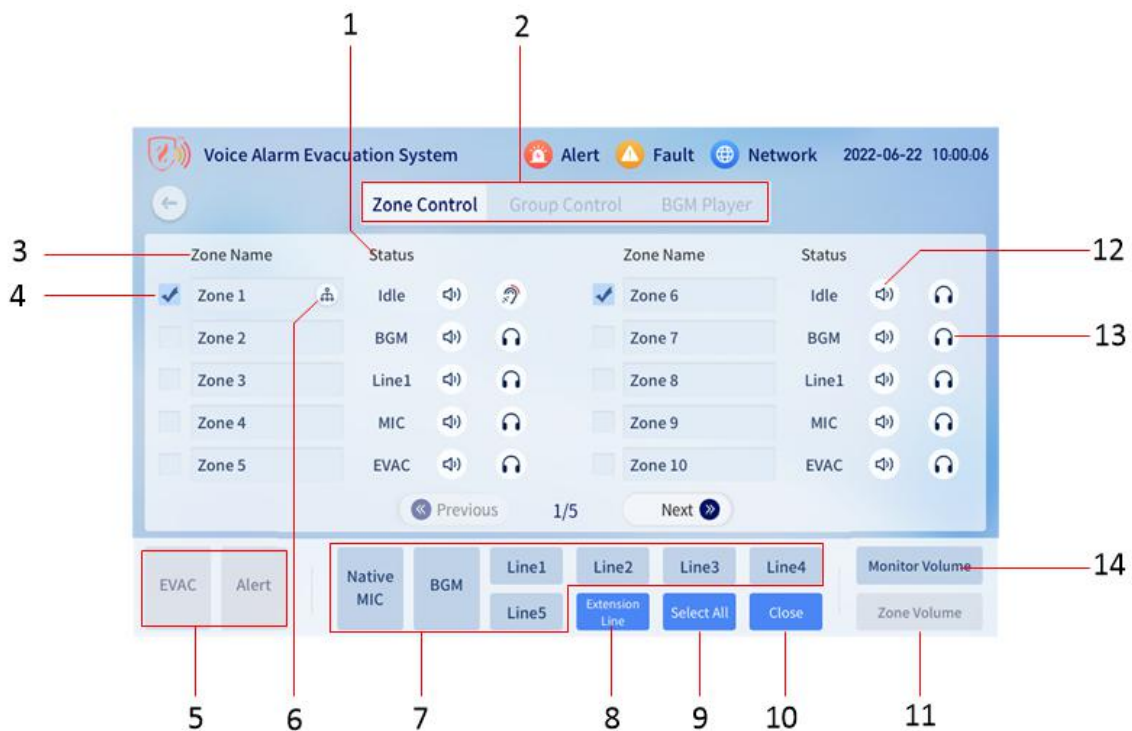
6.3. Broadcast control

Click Broadcast control bar on the home page to enter the Broadcast control interface, in which you can conduct zone control, group broadcasting or monitoring, volume control, background music playback and other operations.

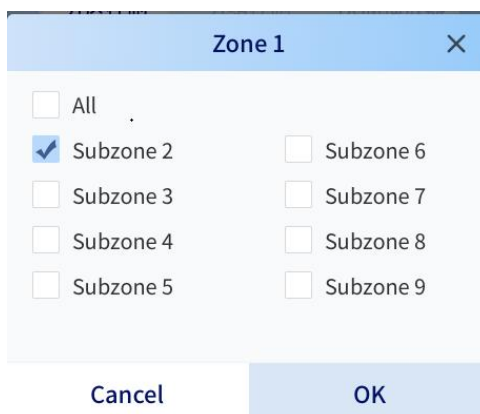


6.3.1. Zone control

Zone control allows you to view zone status, zone control, monitoring, zone volume control, background music playback, emergency sound source playback and other operations.



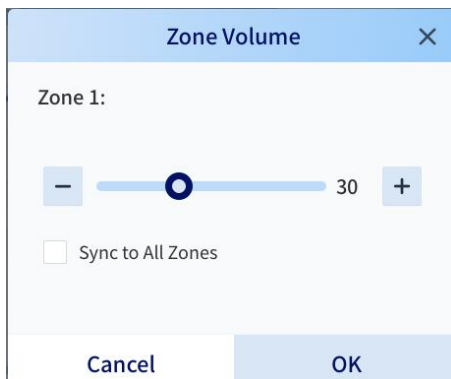
1. Zone status, showing the current working status of each zones. When Idle is displayed, it means that the current zone is not performing the broadcasting task; when audio source is displayed(e.g. BGM, line1, etc.), it means that the partition performs this audio source playback task.
2. Interface switching, which allows switching zone control, group control and BGM player interface
3. Zone name, displaying the name of the zone, which is edited on PC software
4. Selection box, supporting multiple selections; ticking means the zone is selected
5. Emergency audio, which is initiated by only entering the emergency state, otherwise the key is set grey and cannot be selected
6. Sub-zone icon. Zone name with this icon indicates that this zone is a sub-zone of VA-6100P85.
Click to select the sub-zone of P85




7. Normal audio sources, including BGM and five line inputs
8. Extended line input, the audio input from RT local line input interface
9. Select All key. Click to select all zones
10. Shut off key. Tick the zones, click the Shut off key to end the zone broadcast (except for emergency audio broadcast)
11. Batch adjustment of zone volume. Select the zones before clicking, supporting multiple selections, and adjust the volume of the selected zone in a unified manner



12. Volume adjustment, used to adjust the volume level of the zone, and there is a pop-up window after clicking. If Synchronize to all zones is selected, the output volume of all zones is modified all at once (except for emergency source broadcast, with the default of maximum volume output)

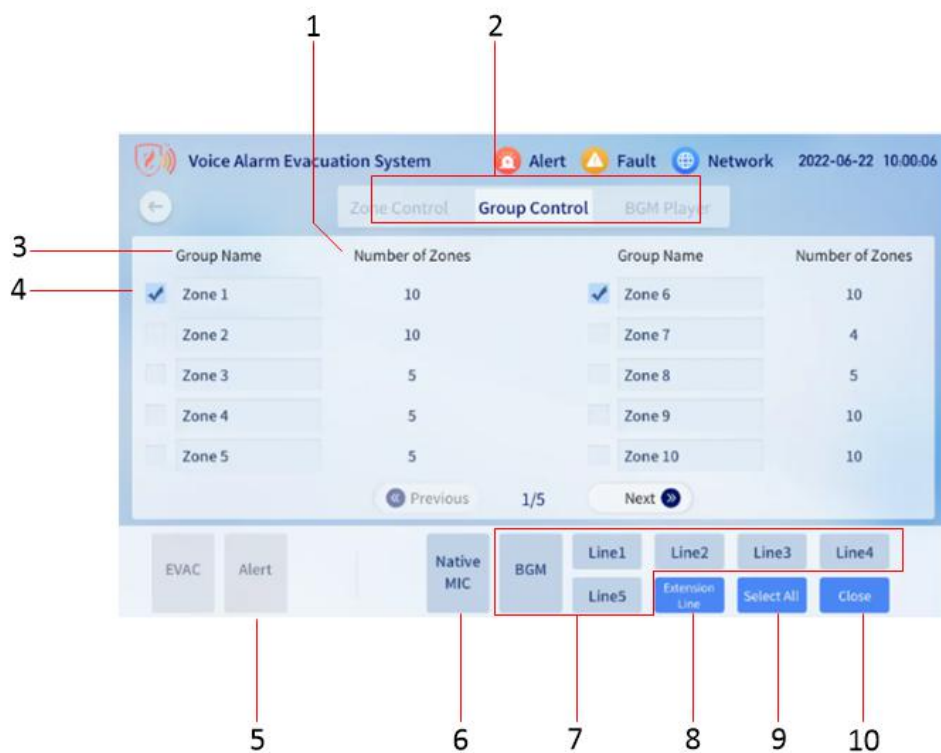


13. Monitor. Monitor the zone after clicking, and the icon will change to 

14. Monitor the volume adjustment.

6.3.2. Group control

Grouping allows one or more zones to be added to a group. When an operation is performed on this group, it applies to all zones under the group.



1. Number of zones, indicating how many zones the group contains
2. Interface switching, which allows switching zone control, group control and BGM player interface
3. Group name, which is edited on PC software
4. Selection box, supporting multiple selections; ticking means the group is selected
5. Emergency audio, which is initiated by only entering the emergency state, otherwise the key is set grey and cannot be selected
6. Local MIC, RT's microphone paging key
7. Normal audio sources, including BGM and five line inputs
8. Extended line input, the audio input from RT local line input interface
9. Select All key. Click to select all groups
10. Shut off key. Tick the groups, click the Shut off key to end the zone broadcast (except for emergency audio broadcast)

6.3.3.BGM player

When a zone is playing a BGM sound source, you can switch to the BGM player interface to operate on playlist, playback mode, and so on.



1. The name of the currently playing song
2. Playback mode, used to switch to Single cycle, Loop playback, Shuffle playback, List loop and others
3. Volume down

4. Previous song
5. Pause key
6. Next song
7. Volume up
8. Selection box. Tick the audio, supporting multiple selections. After selection, click Apply to save, and the system will play the ticked and applied songs
9. Page turning
10. Page switching, for switching zone control, group control and BGM player interface.
11. Apply
12. Selection box. Tick the audio, supporting multiple selections. After selection, click Apply to save, and the system will play the ticked and applied songs.

6.4. Status information

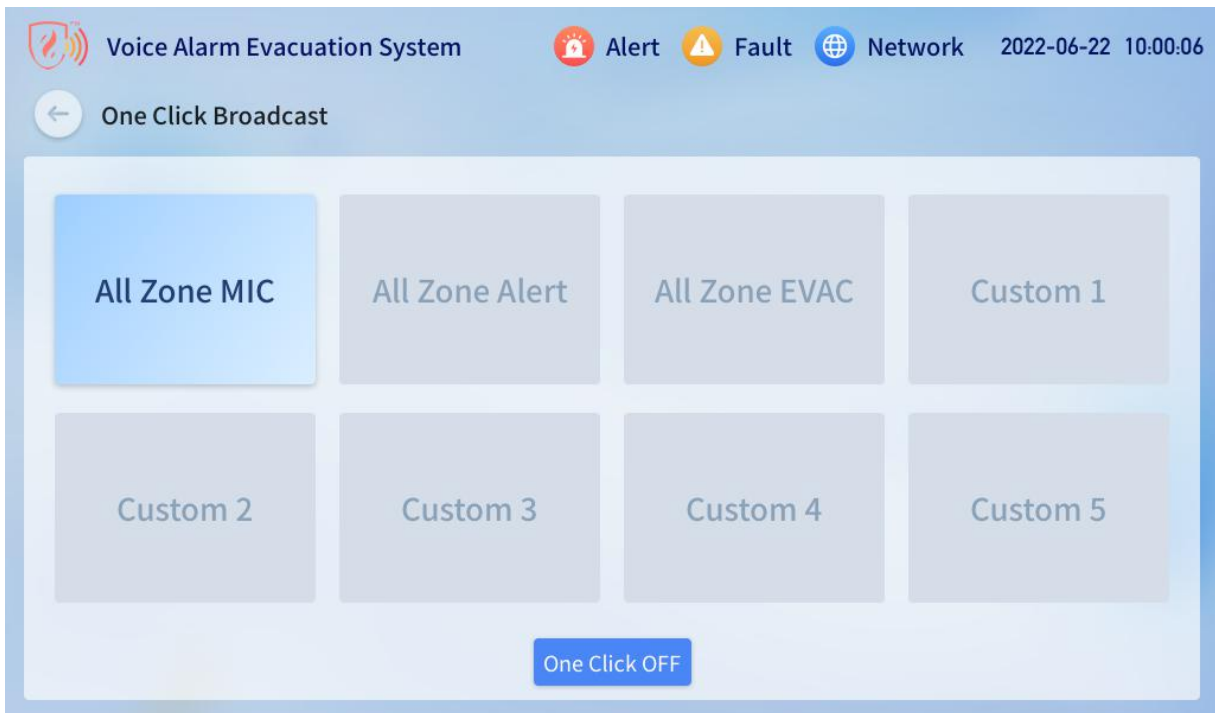
Click Status information bar on the home page to enter the system information view interface, where you can view the device status.

Device Name	Device Status	Firmware Version	Device Name	Device Status	Firmware Version
1 主机	● Normal	1.0.2	8 倒备机1	● Normal	1.0.2
2 分区功放1	● Fault	1.0.2	9 倒备机2	● Normal	1.0.2
3 分区功放2	● Offline	1.0.2	10 RT麦克风1	● Normal	1.0.2
4 分区功放3	● Normal	1.0.2	11 RT麦克风2	● Normal	1.0.2
5 分区功放4	● Normal	1.0.2	12 消防麦克风1	● Normal	1.0.2
6 分区功放5	● Normal	1.0.2	13 消防麦克风2	● Normal	1.0.2
7 分区功放6	● Normal	1.0.2	14 业务麦克风	● Normal	1.0.2

1. Device status, including Normal, Faulty, Offline
2. Device name, which is edited on PC software
3. Firmware version, the firmware burned by the current device.

6.5. One-key broadcasting

One key broadcasting is quick broadcasting, which can pre-set broadcasting zone, broadcasting volume, audio source and other information, and can initiate broadcasting tasks with one key. The system presets three tasks: All Zone MIC, All Zone Alert and All Zone EVAC. All Zone EVAC and Zone Alert can only be used in system emergency state, which are normally greyed out and invalid for shutdown operation. User-defined key need to be set up on the PC. Only those that have been set up will be available, and those that have not been set up are greyed out and unavailable.

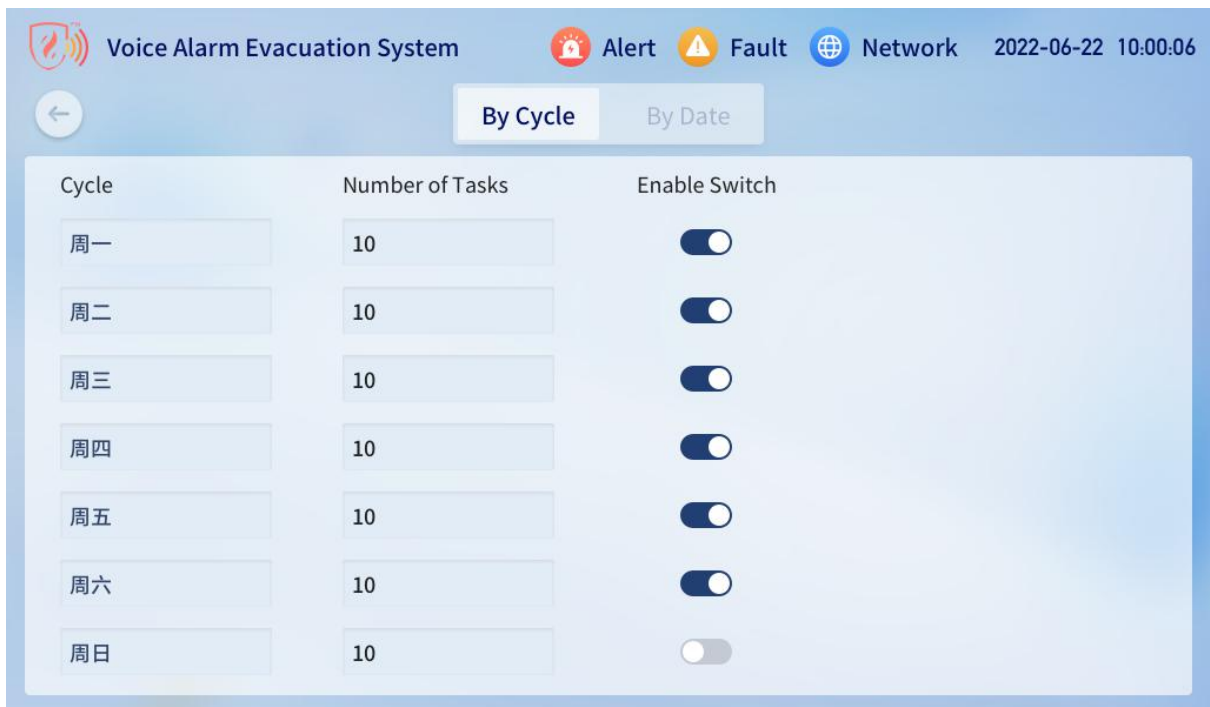


6.6. Timed tasks

Click Timed tasks bar on the home page to enter the Timed tasks interface, where you can view the configured timed tasks and enable or disable them. Timed tasks are configured on PC software.

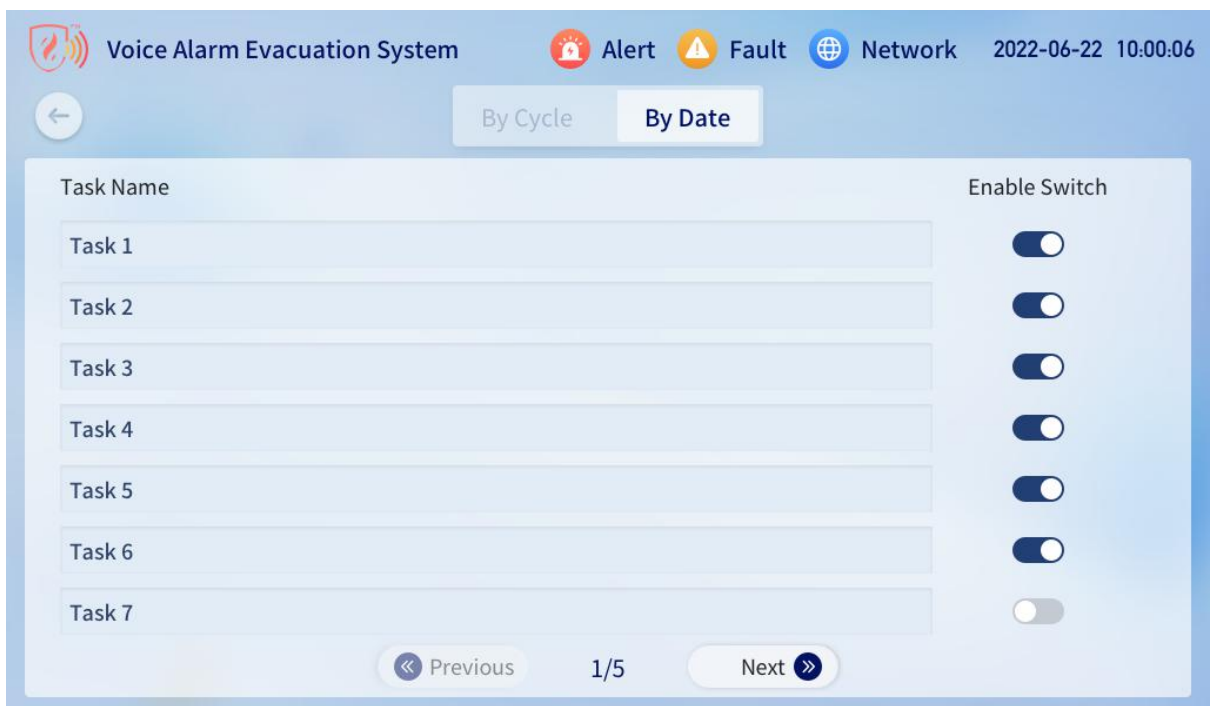
6.6.1. Period

The timed tasks that are set to play periodically, excluding tasks by date. Period refers to the tasks by day of the week, and the total number of scheduled tasks executed on that day is displayed. If the Enable switch is turned off, all tasks for that day will no longer be executed. Specific timed tasks are configured on PC software and can only be enabled or disabled by the host interface.

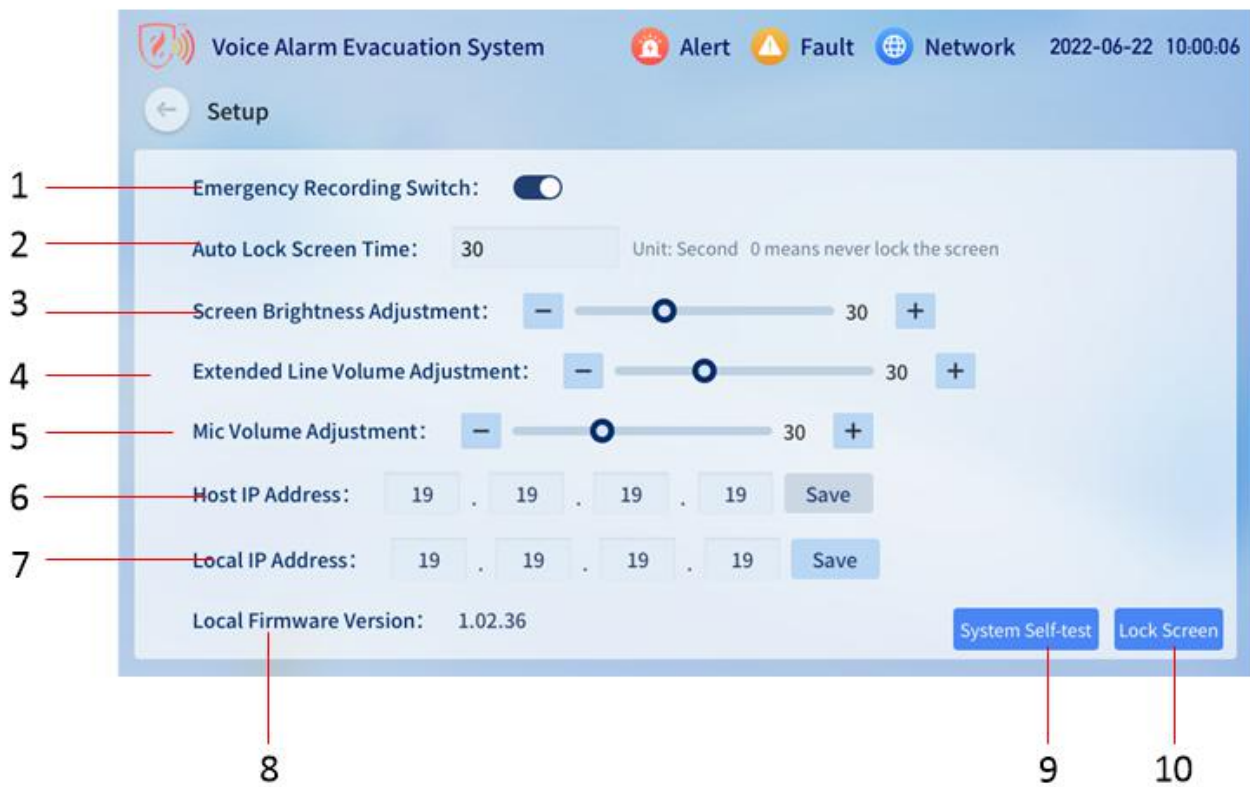


6.6.2.Date

The timed tasks that are set to play by date, excluding tasks by period. If the Enable switch is turned off, the tasks will no longer be executed. Specific timed tasks are configured on PC software and can only be enabled or disabled by the host interface.



6.7.Settings

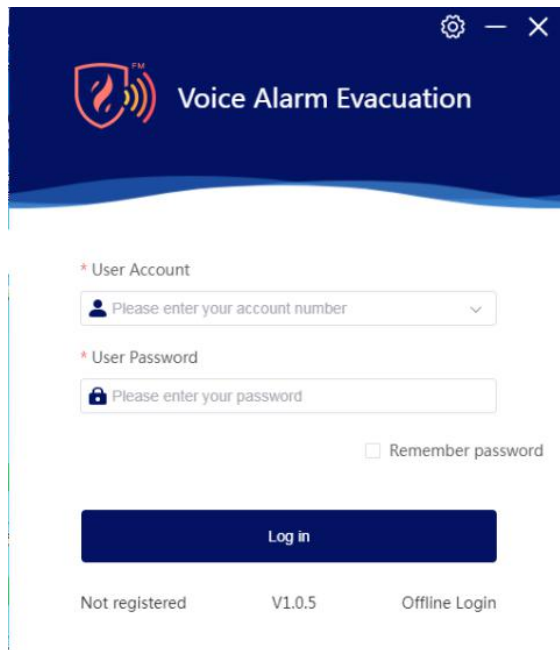


1. Emergency recording switch. When opened, it will automatically record microphone speech, and the audio file is stored on the local SD card
2. Auto-lock time, used to set the host screen to lock after no operation for a certain time, up to 3600 seconds, and 30 seconds by default. If the value is set to 0, the screen is never locked, the minimum lock screen time is 10s.
3. Screen brightness adjustment, used to set the display brightness of the host screen
4. Extended line volume adjustment, local line input volume adjustment
5. Microphone volume adjustment, local goose-neck microphone input volume adjustment
6. Host IP address, used to set the host IP address
7. Local IP address, used to set the local IP address
8. Local firmware version, the firmware version of the machine
9. System self-test, self-test of sound and light components. After pressing it, all indicators on the panel change from green - red - yellow - back to normal display
10. Lock screen.

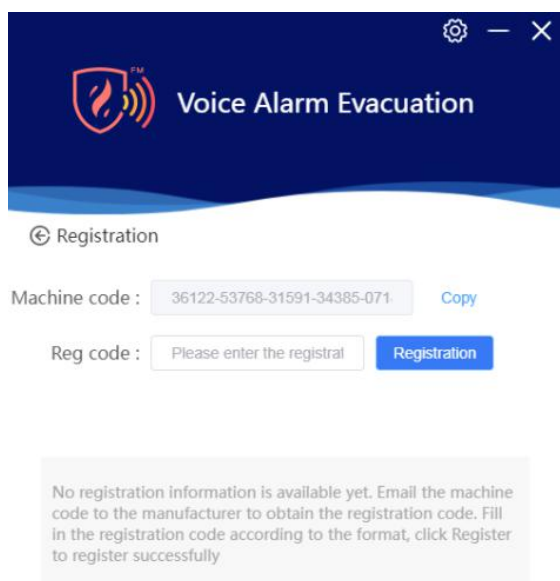
7.PC Software Introduction

7.1.Login interface

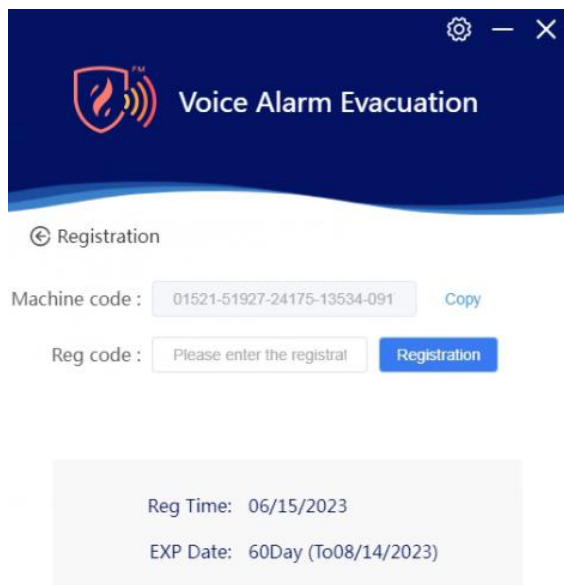
Open the software, and the login page is displayed automatically. Enter the user account and user password, click "Login" to enter the system. Once Remember password is selected, the password is automatically filled for the next login.




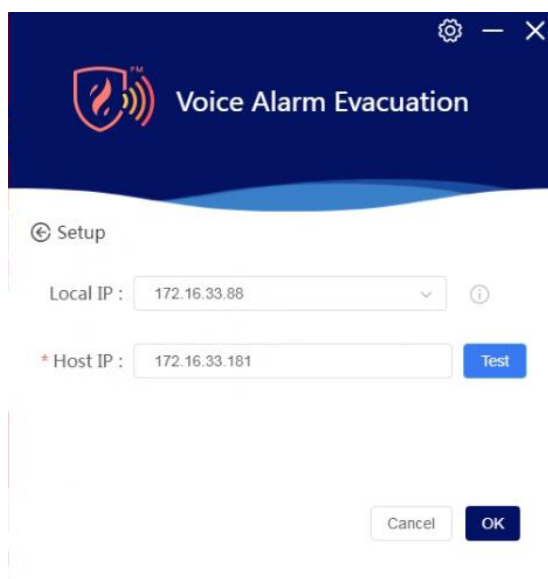
When installing software for the first time, you need to register. Click "Not registered" in the lower left corner to enter the registration interface. Copy the machine code and send it to the manufacturer for registration code.



If the registration is successful, the login interface will show Registered in the lower left corner. Click "Registered" to enter the registration interface to view the registration information, registration time and registration expiry date.



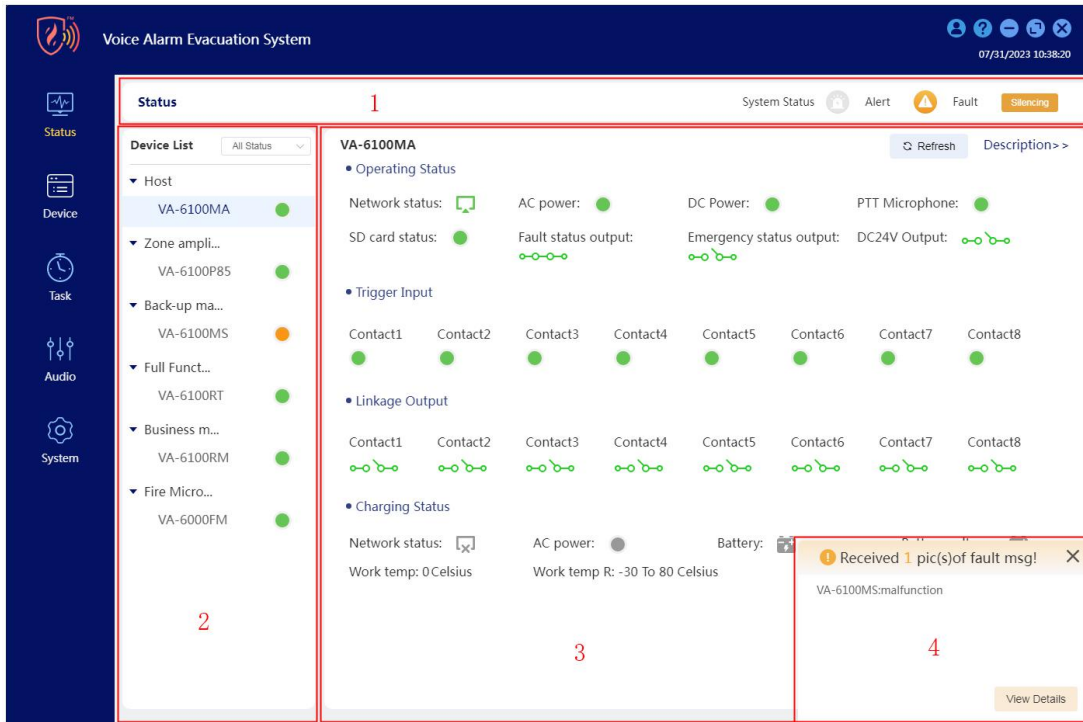
After successful registration, you need to set the local IP address and host IP address to login normally. Click the Setting icon  on the upper right corner of the registration interface. If there are multiple IP address, click the drop-down arrow to select the corresponding IP address. Enter the host IP address and click "Test" to test whether the management computer can be connected normally. If normal, it will prompt "Connection successful"; if the host can not be connected, it will prompt "Failed to connect to the host, please check the IP".



After successful registration and IP setup, enter the user account and user password, and click "Login" to enter the system control interface.

7.2.Status

This function allows you to view the status information of the current system host, zone amplifier, changeover, microphone, charger, etc.

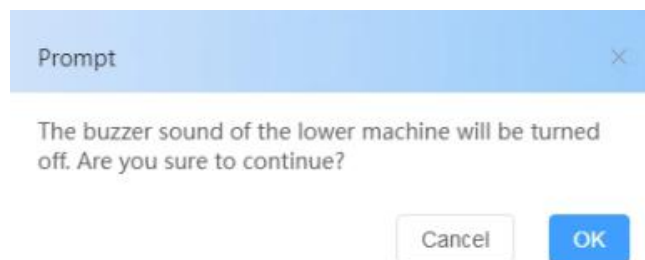


7.2.1.System status bar

Emergency: When the system enters the fire alarm mode, the emergency indicator light (red indicator) flashes continuously (0.2s times/second) until the fire alarm signal is released.

Fault: When the host detects a fault in the system, the fault indicator (yellow indicator) flashes continuously (0.2s times/second). If any device in the system is faulty, the system status is detected as fault.

Silencing: When the system sends a fault, the host buzzer will ring to sound an alarm. Silencing key is used to stop the buzzer ringing.

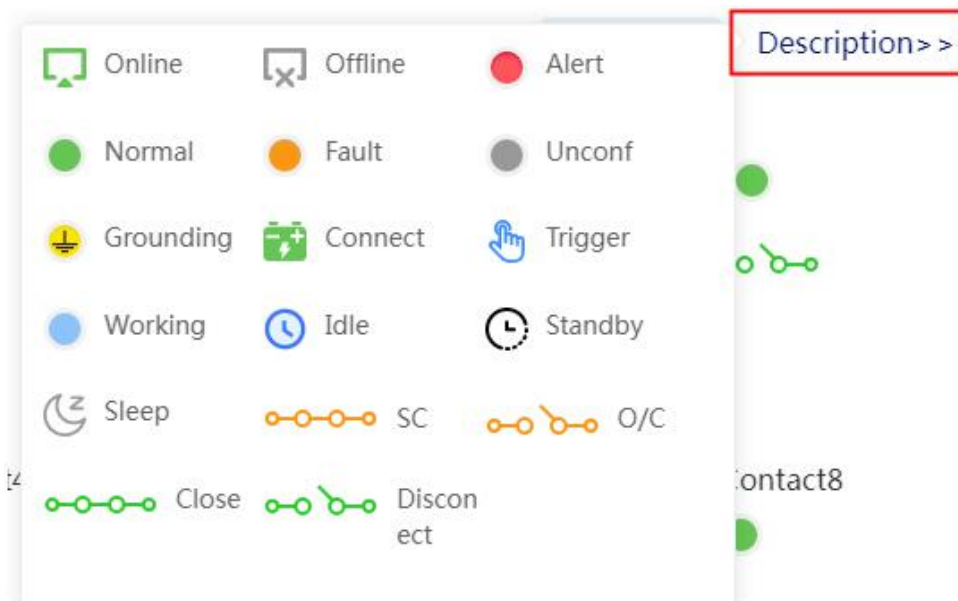


7.2.2. Device list

Display all the devices in the current system. Click different devices to switch the device status displayed in the status display bar on the right. The icon after the device name is the total status of the device. ● indicates that the device is normal; ● indicates that the device has one or more faults; ☒ indicates that the device is offline. You can filter devices according to their status.

7.2.3. Device status display bar

Display the status of the selected device. Click "Description" in the upper right corner to see the meaning of each icon.



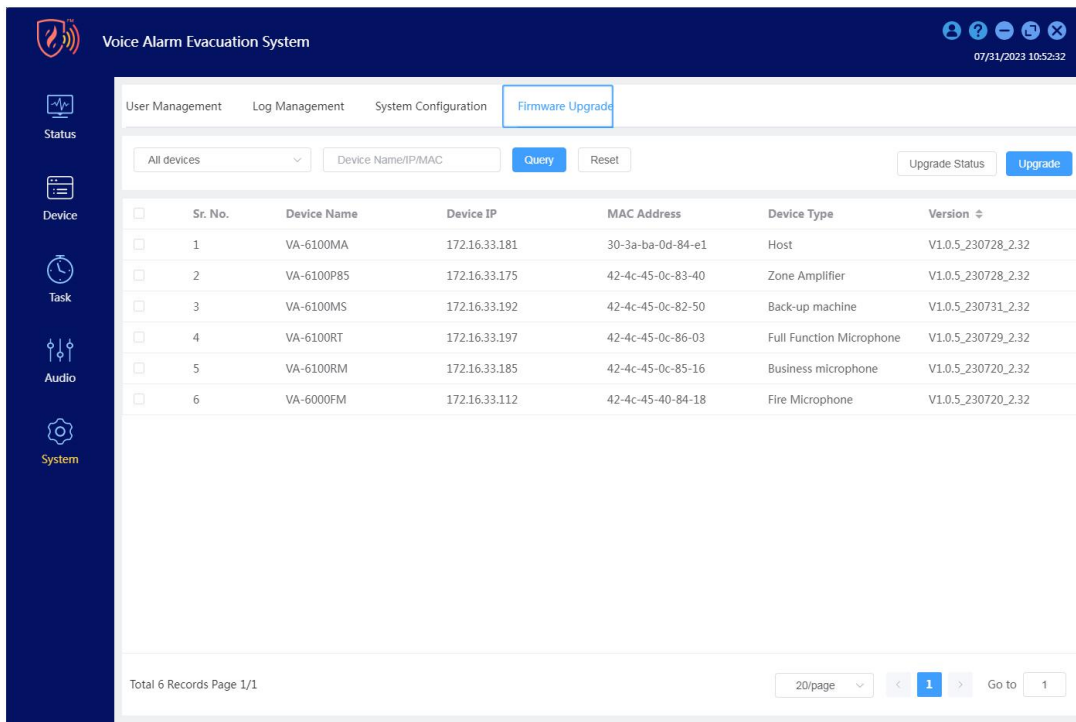
7.2.4. Fault pop-up

When the system sends a fault, there will be a fault pop-up window in the lower right corner of any interface, which displays the total number of fault messages, and the latest 5 faults. Click "View details" to jump to the [Status] module.

7.3. Device

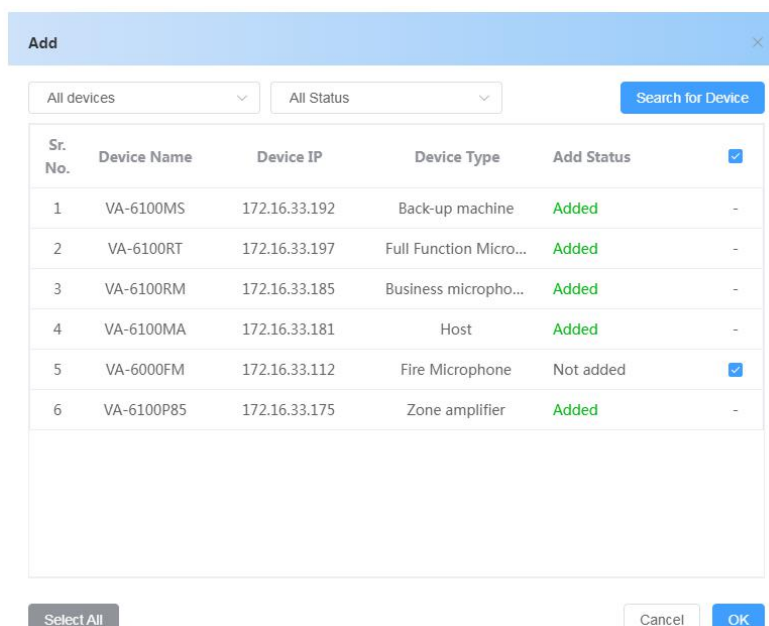
7.3.1. Device list

The [Device list] module displays device information in the system, including device name, network parameters, device type, firmware version, etc. You can add devices, delete devices, and modify device network information.



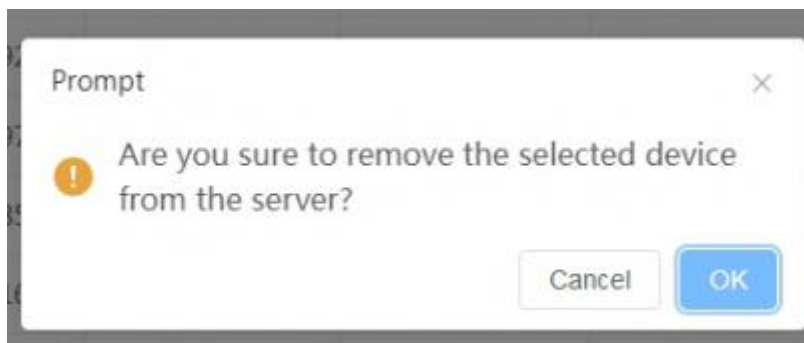
a.Add devices

Click the key **+ Add** on the upper right corner of the interface and the Add device window pops up. Click **Search for Device**, and the system will automatically search for all the EVAC Fire Alarm System devices in the LAN, including added and unadded devices. The added devices can only be viewed but not selected. Tick the checkbox behind the unadded devices and click OK to add it into the system. You can also filter devices by Device type or Add status to quickly find devices that need to be added to the system.



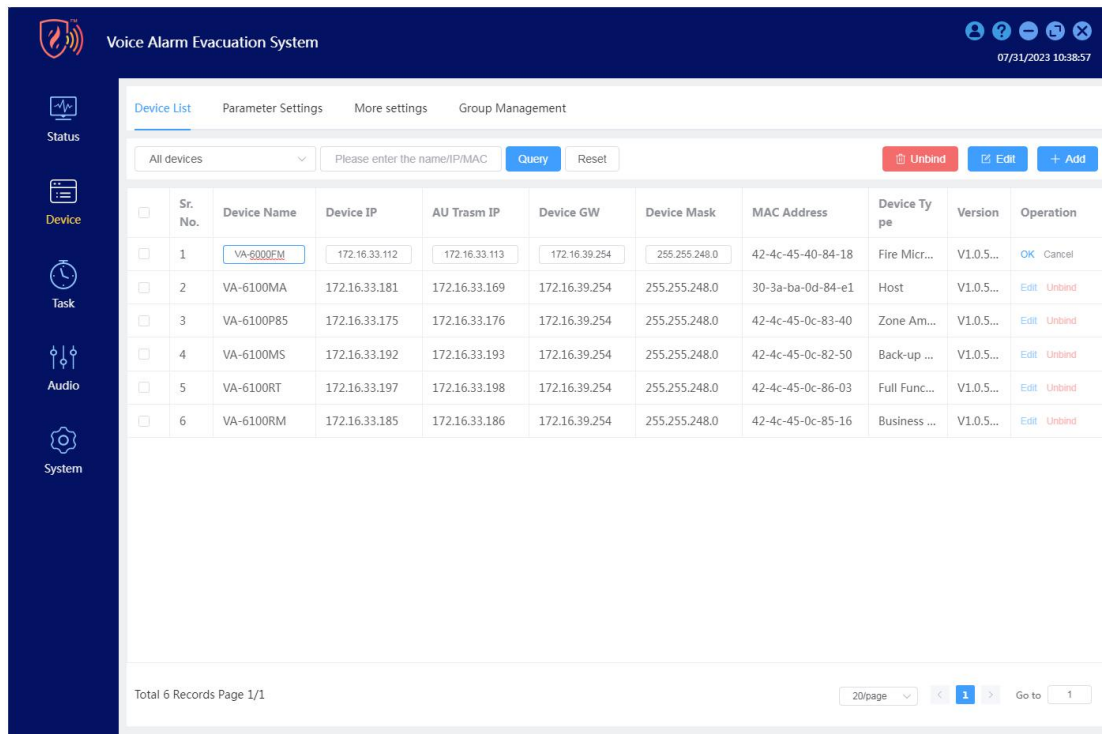
b.Delete device

To remove the device from the system, click "Unbind" of the device, and confirm to remove the device.



c.Modify device network parameters

Click "Edit" key of the device to modify its parameters. After clicking the parameters of the device with the mouse, the input box appears, accompanied by the focus. Output the relevant configuration, and click "OK" to save the changes. The device parameters that can be modified include the device name, device IP address, audio transmission IP address, device gateway, and device mask. Note: The device IP address should be in the same network segment as the host IP address.



7.3.2.Parameter setting

The [Parameter configuration] module is to configure all the working parameter information of the fire fighting voice system, and the configuration here will be written to the host by broadcasting,

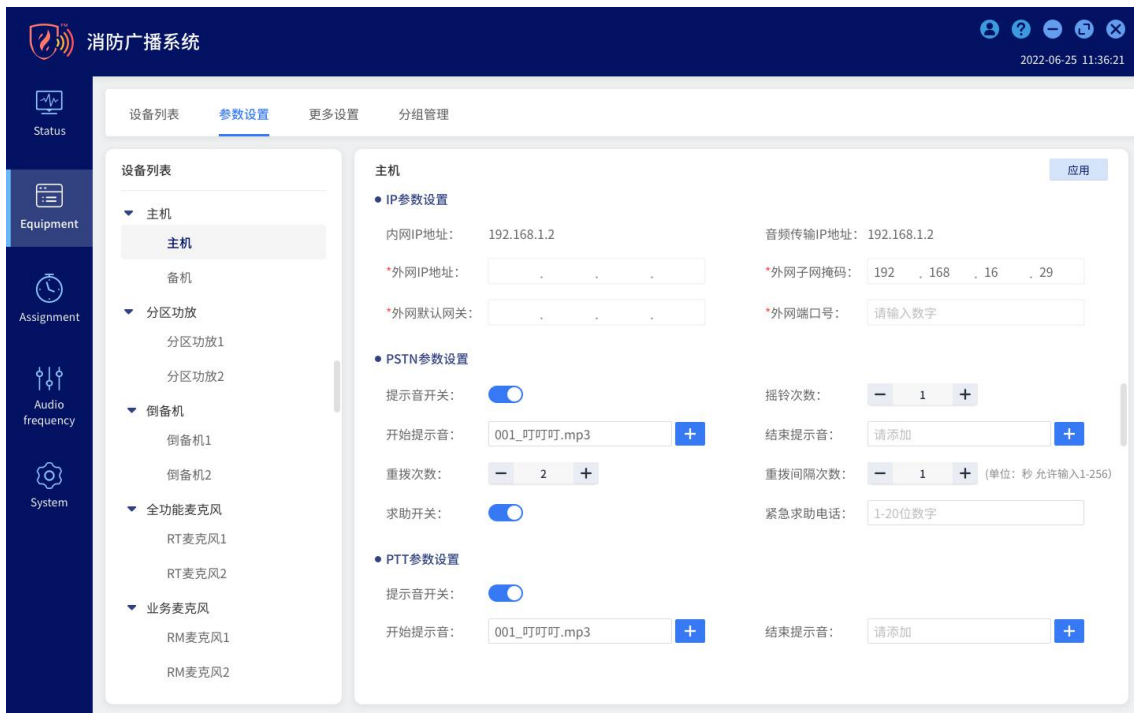
which also ensures the unity of the data of each online host.

For devices added in [Device list], you can set their configuration information in [Parameter configuration].

After setting the device parameters, you need to click the "Apply" key on the upper right corner to save the parameters.

a.Host parameter configuration

Set the parameters of the controller VA-6100MA.



1) IP parameter setting

• IP Parameter Settings

Intranet IP address:	172.16.33.181	AU trasm IP add:	172.16.33.169
External IP address:	<input type="text" value="172.16.22.34"/>	External subnet mask:	<input type="text" value="0.0.0.0"/>
WAN dflt GW:	<input type="text" value="0.0.0.0"/>	WAN port No:	<input type="text" value="0"/>

Internal IP address: IP address of the controller VA-6100MA

Audio transmission IP address: IP address of XMOS of the controller VA-6100MA

External IP address: reserved

Sub-net mask of external network: reserved

Default gateway of external network: reserved

External network port number: reserved

2)PSTN parameter setting

• PSTNParameter Configuration

Tone S:	<input checked="" type="checkbox"/>	Number of rings:	<input type="text" value="5"/>
Start tone:	<input type="text" value="001-cPrompDn.mp3"/> <input type="button" value="+"/>	End tone:	<input type="text" value="002-cPrompUp.mp3"/> <input type="button" value="+"/>
Number of redials:	<input type="text" value="5"/>	Number of redial intervals:	<input type="text" value="5"/> <small>(Unit:Sec 1-256 allowed)</small>
Help switch:	<input checked="" type="checkbox"/>	* Emergency call:	<input type="text" value="8008"/>

Tone switch: You can enable or disable the PSTN tone.

Ring count: the number of times the phone rings.

Start tone: set the tone when PSTN starts speaking.

End tone: set the tone when the PSTN ends speaking.

Redial times: set the number of times the PSTN redials.

Redial interval (sec) (1-256): set the time interval for PSTN busy dialing and repeated dialing, with the range of 1~256 seconds.

Help switch: When an emergency occurs, the system will automatically dial the preset phone number or not according to the configured requirements.

Helpline: When an emergency occurs, the system will dial the preset helpline number according to the configuration if the above helpline switch is on.

3)PTT parameter setting

• PTTParameter Configuration

Tone S:	<input checked="" type="checkbox"/>		
Start tone:	<input type="text" value="001-cPrompDn.mp3"/> <input type="button" value="+"/>	End tone:	<input type="text" value="002-cPrompUp.mp3"/> <input type="button" value="+"/>

Tone switch: set whether to enable or disable the tone when the PTT starts/ends speaking.

Start tone: set the tone music when the PTT starts speaking.

End tone: set the tone music when the PTT ends speaking.

4)Audio input and output volume settings

• Audio Input/Output Volume

PTT input:	<input type="text" value="100"/>	Prompt tone of PTT:	<input type="text" value="100"/>
PSTN input:	<input type="text" value="100"/>	Prompt tone of PSTN:	<input type="text" value="100"/>
EVAC:	<input type="text" value="100"/>	Alert:	<input type="text" value="100"/>
Line1:	<input type="text" value="100"/>	Line2:	<input type="text" value="100"/>
Line3:	<input type="text" value="100"/>	Line4:	<input type="text" value="100"/>
Line5:	<input type="text" value="100"/>	BGM:	<input type="text" value="100"/>

Configure the sensitivity of the host audio inputs and outputs:

PTT input: set the input sensitivity of the PTT microphone when speaking, with adjustable range of sensitivity: 0~100.

PPT speaking tone: set the tone sensitivity of the PTT microphone when speaking, with adjustable range of sensitivity: 0~100.

PSTN input: set the input sensitivity of PSTN when speaking, with adjustable range of sensitivity: 0~100.

PSTN output: set the tone sensitivity of PSTN when speaking, with adjustable range of sensitivity: 0~100.

EVAC: set the sensitivity of evacuation voice message, with adjustable range of sensitivity: 0~100.

Alert: set the sensitivity of warning voice message, with adjustable range of sensitivity: 0~100.

Line1: set the input sensitivity of microphone/Line 1, with adjustable range of sensitivity: 0~100.

Line2: set the input sensitivity of Line 2, with adjustable range of sensitivity: 0~100.

Line3: set the input sensitivity of Line 3, with adjustable range of sensitivity: 0~100.

Line4: set the input sensitivity of Line 4, with adjustable range of sensitivity: 0~100.

Line5: set the input sensitivity of Line 5, with adjustable range of sensitivity: 0~100.

BGM: set the input sensitivity of background music, with adjustable range of sensitivity: 0~100.

5)Working mode setting

• Work Mode Setting

Real-time mon:	<input checked="" type="checkbox"/>	Trigger mode:	<input type="text" value="Short circuit moc"/>
Charger conf:	<input type="text" value="0"/>	Backup host switch:	<input type="checkbox"/>
Host switch password:	<input checked="" type="checkbox"/>	* Host password:	<input type="text" value="666666"/>

Real-time detection: set whether the host performs real-time detection on each device module of the system.

Trigger mode: set the detection mode of the host online interface. There are two detection modes: level mode and short circuit mode. The factory default is Short circuit mode.

Charger configuration: set the number of chargers configured for the host. The maximum number of chargers allowed for each host is: 1.

Backup host switch: specify whether a backup reservation function.

Host password switch: set whether the host screen has a password. If so, you need to enter the password to access the home page after the host screen is locked.

Host password: configure the login password for the host.

b. Zone amplifier parameter configuration

Set the working parameters of the zone amplifier VA-6100P85.

The screenshot displays the 'Voice Alarm Evacuation System' web interface. The left sidebar contains navigation icons for Status, Device, Task, Audio, and System. The main content area is titled 'Parameter Settings' and shows the configuration for device 'VA-6100P85'. The settings are organized into sections: IP Parameter Settings, Work Mode Setting, and Audio priority.

IP Parameter Settings:

- Intranet IP address: 172.16.33.175
- AU trasm IP add: 172.16.33.176

Work Mode Setting:

- Real-time mon:
- Trigger mode: Short circuit m
- Charger conf: 0
- Backup amp conf: Unconf
- Sleep mode:
- Sleep mode dly time: 60 (Unit: Seconds)
- Speaker detect alert: Enable

Audio priority:

Sr. No.	Audio Source	Operation
1	MIC1	⋮
2	MIC2	⋮
3	Line1	⋮
4	Line2	⋮
5	EVAC	⋮
6	BGM	⋮

Description:
1. The smaller the number, the higher the priority
2. Drag to prioritize

1) IP parameter setting

• IP Parameter Settings

Intranet IP address: 172.16.33.175

AU trasm IP add: 172.16.33.176

In IP parameter settings, device parameters can only be viewed but not modified and edited.

2) Working mode setting

• Work Mode Setting

Real-time mon:	<input checked="" type="checkbox"/>	① Sleep mode:	<input type="checkbox"/>
Trigger mode:	<input type="text" value="Short circuit m"/>	① Sleep mode dly time:	<input type="text" value="60"/> (Unit: Seconds)
Charger conf:	<input type="text" value="0"/>	Speaker detect alert:	<input type="text" value="Enable"/>
Backup amp conf:	<input type="text" value="Unconf"/>		

Real-time detection: set whether the zone amplifier enables/disables the online real-time detection. After real-time detection is disabled, the system does not detect the current zone amplifier. Even if the current zone amplifier is faulty, all the status of the current zone amplifiers will default to normal by the system.

Sleep mode: set whether to enable/disable the sleep mode of zone amplifier. After sleep mode is enabled, the current zone amplifier will enter the sleep standby state if there is no audio signal input within the set time; if the sleep function is disabled, the zone amplifier will never enter the sleep state.

Trigger mode: set the detection mode of the on-line interface of the zone amplifier. There are two detection modes: level mode and short circuit mode. The factory default is Short circuit mode.

Sleep mode delay time: set how long the zone amplifier will enter sleep without audio signal input.

Charger configuration: configure corresponding DC power charger for the backup power supply of the zone amplifier according to the user's demand. The maximum number of chargers allowed for each zone is: 3 sets.

Speaker circuit detection switch: set whether the zone amplifier detects the connected speaker circuit.

Backup amplifier configuration: set whether the zone amplifier is configured with backup amplifier according to the user's demand.

3)Audio priority

- Audio priority:

Sr. No.	Audio Source	Operation
1	MIC1	☰
2	MIC2	☰
3	Line1	☰
4	Line2	☰
5	EVAC	☰
6	BGM	☰

Description:

1. The smaller the number, the higher the priority
2. Drag to prioritize

You can set the priority order of local audio and network audio of the zone amplifier according to the user's needs. Select the audio whose priority needs to be changed, hold down the left mouse button and drag it up or down to change its order, so as to configure the audio priority level of the zone amplifier.

Note: The lower the number of priority levels, the higher the priority level. 1 - highest priority, 6 - lowest priority.

4)Zone setting

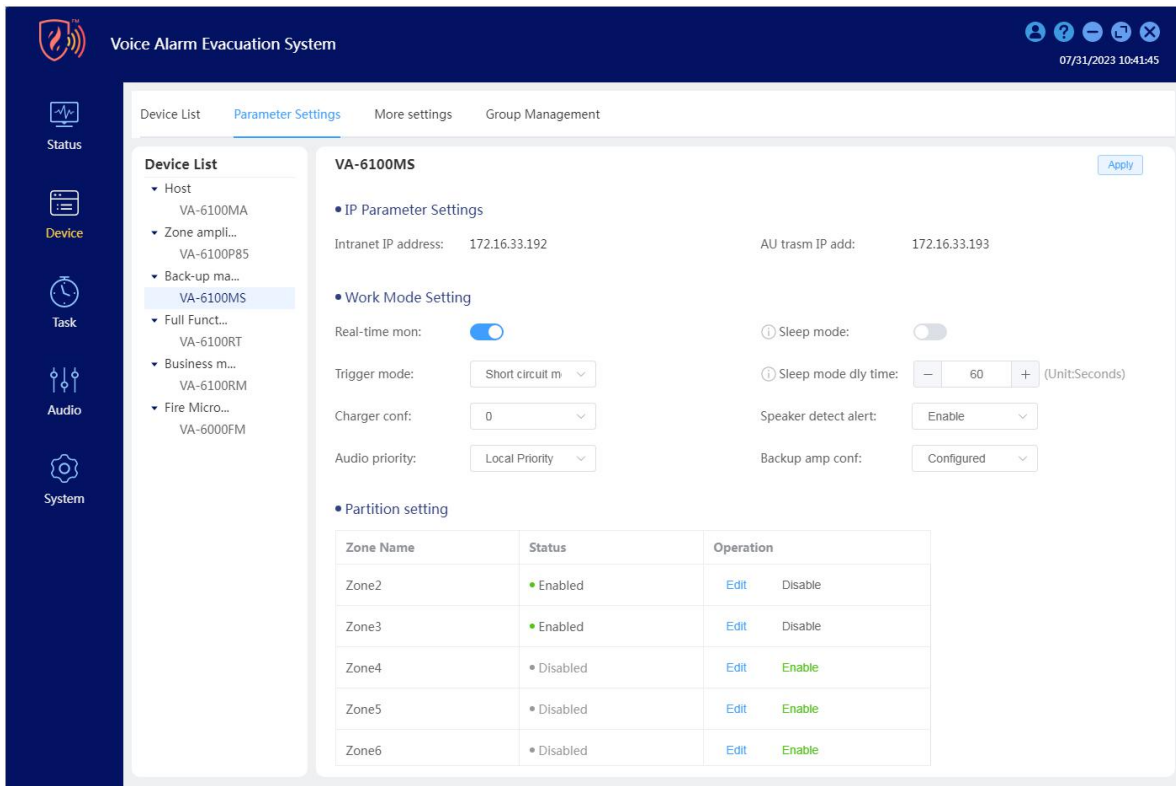
- Partition setting

Zone Name	Subzone Name	Status	Operation
Zone1	-	-	Edit
-	a1	● Enabled	Edit Disable
-	a2	● Disabled	Edit Enable
-	a3	● Disabled	Edit Enable
-	a4	● Disabled	Edit Enable
-	a5	● Disabled	Edit Enable
-	a6	● Disabled	Edit Enable

The zone amplifier has 8 sub-zones. You can enable or disable each sub-zone in the zone setting, and set the name of each sub-zone.

c.Changeover parameter configuration

Set the working parameters of the changeover VA-6100MS.



1)IP parameter setting

• IP Parameter Settings

Intranet IP address: 172.16.33.192

AU trasm IP add: 172.16.33.193

In IP parameter settings, device parameters can only be viewed but not modified and edited.

2)Working mode setting

• Work Mode Setting

Real-time mon:

Sleep mode:

Trigger mode: Short circuit m

Sleep mode dly time: 60 (Unit:Seconds)

Charger conf: 0

Speaker detect alert: Enable

Audio priority: Local Priority

Backup amp conf: Configured

Real-time detection: set whether the changeover enables/disables the online real-time detection. After real-time detection is disabled, the system does not detect the current changeover. Even if the current changeover is faulty, all the status of the current changeovers will default to normal by the system.

Sleep mode: set whether to enable/disable the sleep mode of changeover. After sleep mode is enabled, the current changeover will enter the sleep standby state if there is no audio signal input within the set time; if the sleep function is disabled, the changeover will never enter the sleep state.

Trigger mode: set the detection mode of the on-line interface of the changeover. There are two detection modes: level mode and short circuit mode. The factory default is Short circuit mode.

Sleep mode delay time: set how long the changeover will enter sleep without audio signal input.

Charger configuration: configure corresponding DC power charger for the backup power supply of the changeover according to the user's demand. The maximum number of chargers allowed for each changeover is: 3 sets.

Speaker circuit detection switch: set whether the changeover detects the connected speaker circuit.

Audio priority: set the priority order of local audio and network audio of the changeover according to the user's demand.

Backup amplifier configuration: set whether the changeover is configured with backup amplifier according to the user's demand.

3)Zone setting

- Partition setting

Zone Name	Status	Operation	
Zone2	• Enabled	Edit	Disable
Zone3	• Enabled	Edit	Disable
Zone4	• Disabled	Edit	Enable
Zone5	• Disabled	Edit	Enable
Zone6	• Disabled	Edit	Enable

The maximum number of zone outputs supported by the changeover is 8. You can enable or disable each zone in the zone setting, and set the name of each zone.

Microphone password: set the login password for RT.

3)Tone setting

• Prompt Tone Setting

Tone S:

Start tone:

End tone:

Tone switch: set whether to enable or disable the tone when the microphone starts/ends speaking.

Start tone: set the tone music when the microphone starts speaking.

End tone: set the tone music when the microphone ends speaking.

4)Shortcut setting

• Shortcut Key Setting

Shortcut name:

Playback zone:

Audio Type: Playback mode:

Play audio:

The fully functional microphone has five configurable shortcut keys, which can be configured to initiate a one-key shortcut broadcasting. These 5 shortcut keys can be configured on Shortcut key settings.

Shortcut key name: configure the name of the task initiated by the shortcut.

Play zone: set the zone which initiates a broadcast.

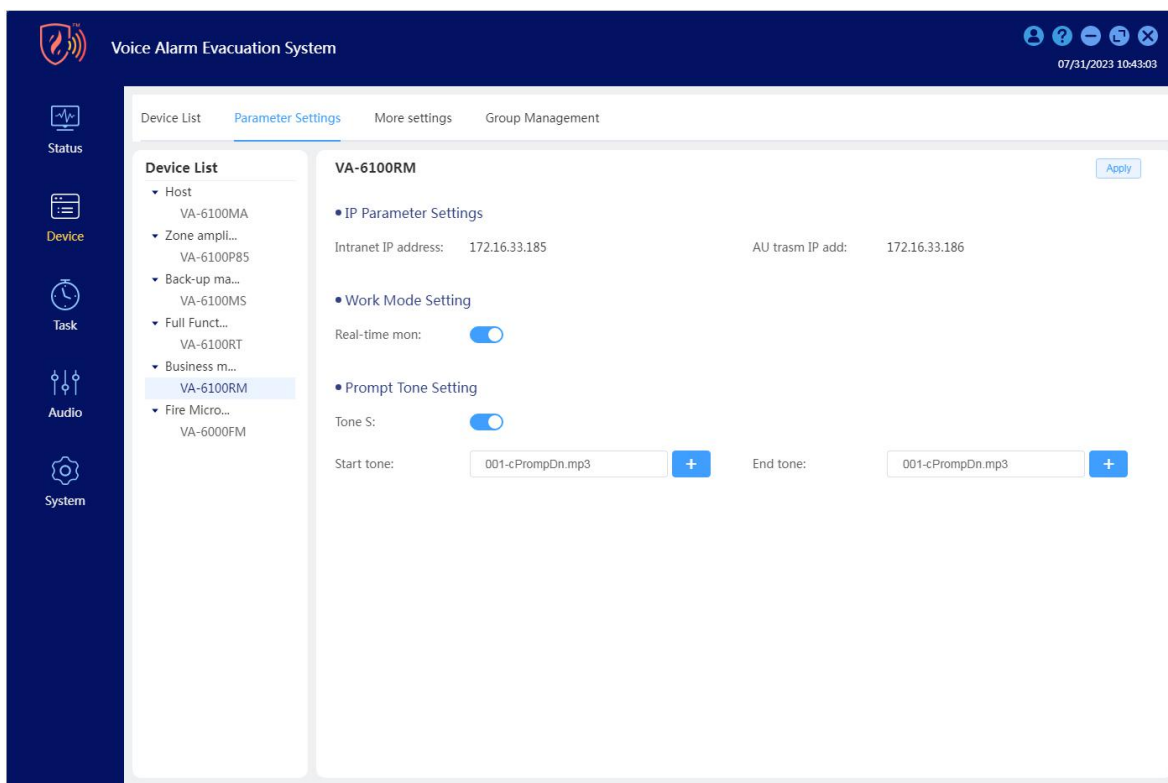
Audio type: set the broadcast source type.

Playback mode: set the mode of audio playback.

Playback audio: select the audio file to play.

e.Fire microphone parameter configuration

Set the working parameter of the fire microphone VA-6100FM.



1)IP parameter setting

• IP Parameter Settings

Intranet IP address: 172.16.33.185 AU trasm IP add: 172.16.33.186

In IP parameter settings, device parameters can only be viewed but not modified and edited.

2)Working mode setting

• Work Mode Setting

Real-time mon:

Monitor switch: set whether to enable/disable the MIC online detection monitoring function.

3)Tone setting

• Prompt Tone Setting

Tone S:

Start tone: 001-cPrompDn.mp3 End tone: 002-cPrompUp.mp3

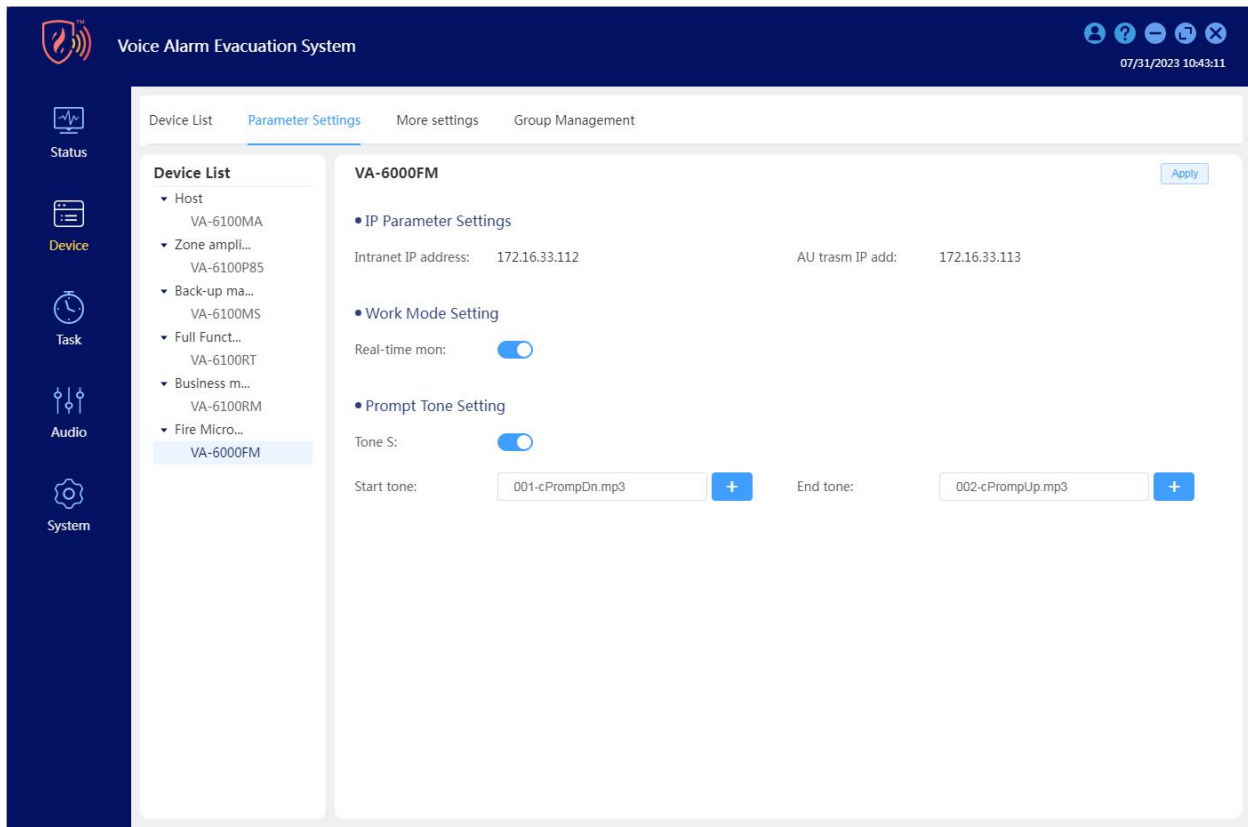
Tone switch: set whether to enable or disable the tone when the microphone starts/ends speaking.

Start tone: set the tone music when the microphone starts speaking.

End tone: set the tone music when the microphone ends speaking.

f. Service microphone parameter setting

Set the working parameter of the service microphone VA-6100RM.



1) IP parameter setting

• IP Parameter Settings

Intranet IP address: 172.16.33.112

AU trasm IP add: 172.16.33.113

In IP parameter settings, device parameters can only be viewed but not modified and edited.

2) Working mode setting

• Work Mode Setting

Real-time mon:

Monitor switch: set whether to enable/disable the MIC online detection monitoring function.

3)Tone setting

- Prompt Tone Setting

Tone S:

Start tone:

End tone:

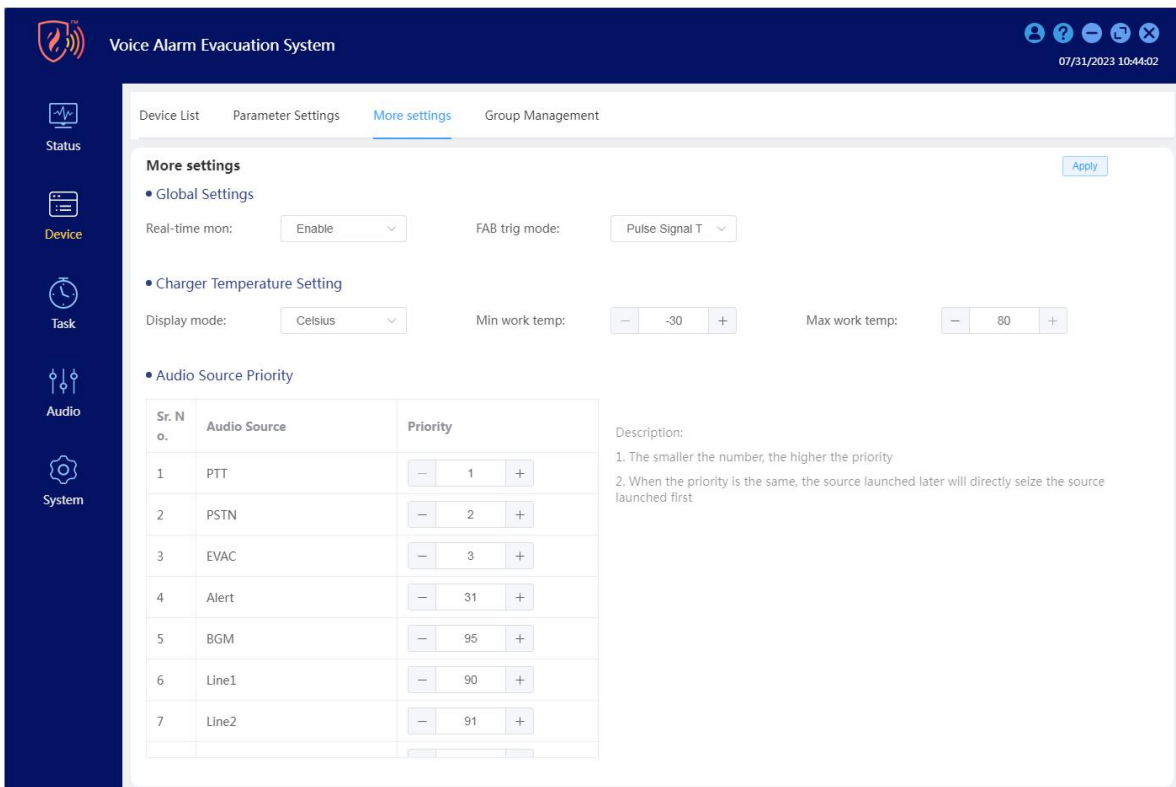
Tone switch: set whether to enable or disable the tone when the microphone starts/ends speaking.

Start tone: set the tone music when the microphone starts speaking.

End tone: set the tone music when the microphone ends speaking.

7.3.3.More settings

Configuration changes in More settings allows changing the parameters applied to all device modules of the system.



1)Global setting

- Global Settings

Real-time mon:

FAB trig mode:

Real-time detection: Set On and Off of the total real-time detection switch of the system; On: detect the online and working status of other devices in the system. Off: do not detect other devices in the system, and the status of all other devices is normal by default.

Logo display switch: set whether to display logo.

Fire alarm trigger mode: set the contact mode as Pulse signal trigger or Continuous signal trigger;
 Pulse signal trigger: the contact task will not be closed after the contact is revoked, you need to manually press the working mode switch on the panel, i.e. the big red button, to cancel the emergency mode. Continuous signal trigger: the contact task will stop playing automatically after the contact signal is revoked.

2)Charger temperature setting

• Charger Temperature Setting

Display mode: Celsius Min work temp: -30 Max work temp: 80

Display mode: Users can select the "Celsius" or "Fahrenheit" display mode.

Minimum/maximum working temperature: Configure the temperature range of the charger, with the range of: -30~80. (If the VA-6000BC is not configured, the UPS< Selected via host configuration > is used, or no backup power is required, this step can be omitted. In addition, leave the charger parameters configured by default if there is no special requirement.)

3)Audio priority

• Audio Source Priority

Sr. No.	Audio Source	Priority
1	PTT	1
2	PSTN	2
3	EVAC	3
4	Alert	31
5	BGM	95
6	Line1	90
7	Line2	91

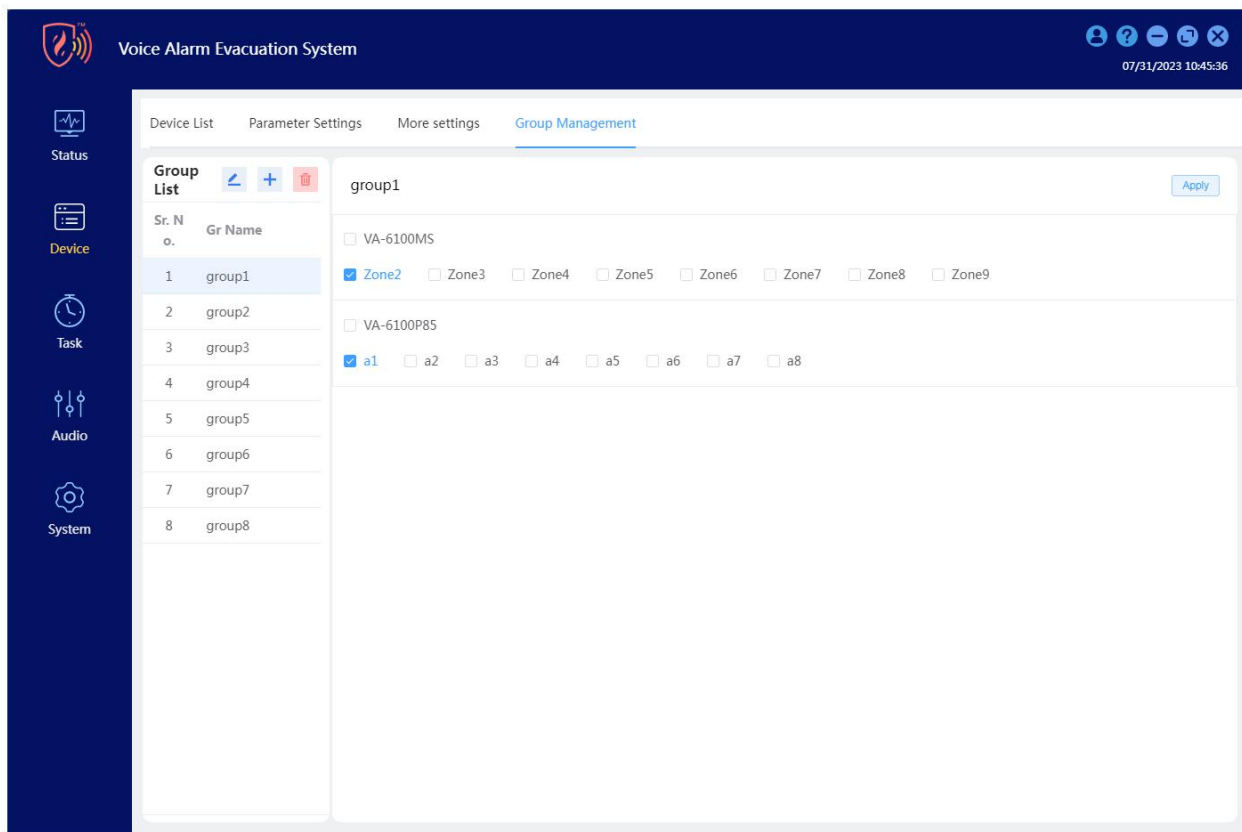
Description:

1. The smaller the number, the higher the priority
2. When the priority is the same, the source launched later will directly seize the source launched first

The smaller the number of the corresponding audio, the higher the priority, which means the audio with the higher priority will be output first when different audios output to the same zone at the same time. If it is cut off by the audio with the higher priority level, the audio with the lower priority level will automatically resume output when the audio with the higher priority level finishes outputting (Except MIC paging and PTT and PSTN). For audios with the same priority, the output state of the last operation is maintained.

7.3.4.Group management

Grouping allows one or more zones to be added to a group. When an operation is performed on this group, it applies to all zones under the group.



Click the **+** key of the Group list to add a group. Mouse moves into the group name to display the Edit/Delete key. Edit: to modify the group name; Delete: delete the group.

After selecting the group, tick the zone on the right side. You can select more than one. Click "Apply" to add the zones into the group.

The same zone can exist in more than one group.

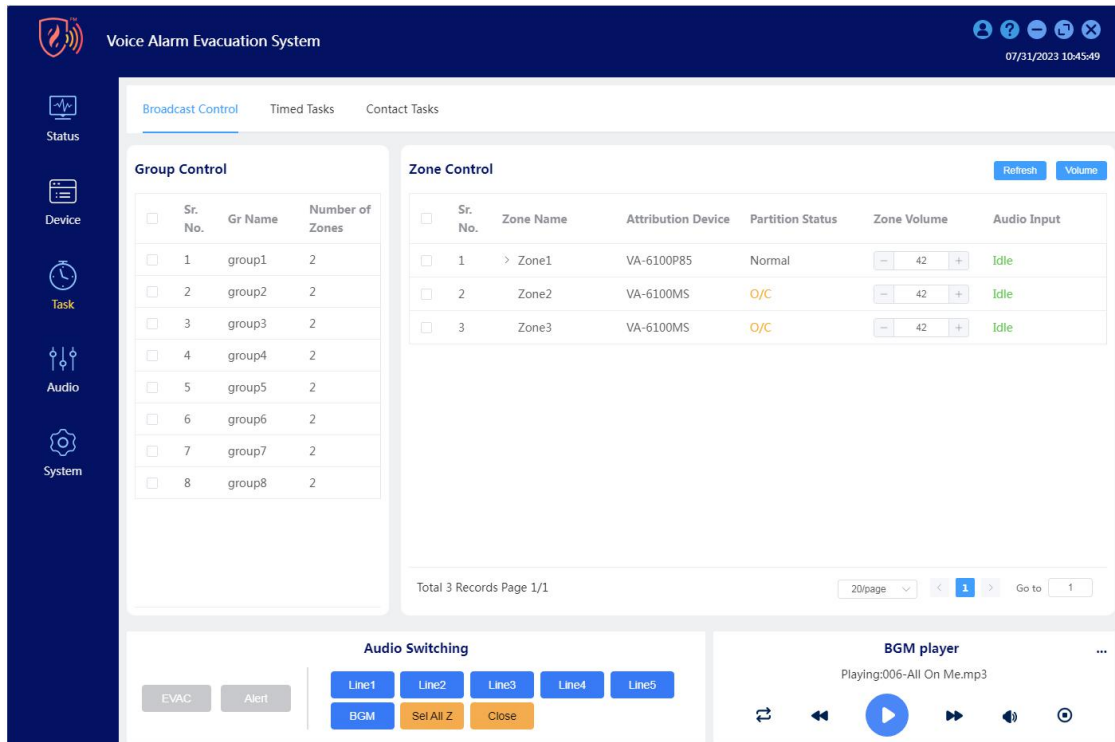
When a device is selected, all zones or sub-zones under it will be selected; when it is unselected, all zones or sub-zones under it will be unselected simultaneously. When all zones or sub-zones are selected, the device checkbox is automatically and synchronously selected; when only part of a zone or sub-zone is selected, the device checkbox does not need to be synchronously selected.

7.4.Tasks

The [Tasks] bar is mainly for manually initiating broadcast tasks, configuring timed tasks and fire linkage tasks.

7.4.1.Broadcast control

Broadcast control page, including the control of the operation functions of zones and groups and the display of the status of zones and groups. Centralized control management facilitates user operation. It can play background music for zones and groups, play voice input from other lines, and modify the volume of zones and groups. Under this module, the status of partition can be displayed, including zone name, sub-zone status, zone status, zone volume and other information. It can display the status information of the currently selected MP3.



1)Group control

Sr. No.	Gr Name	Number of Zones	
<input type="checkbox"/>	1	group1	2
<input type="checkbox"/>	2	group2	2
<input type="checkbox"/>	3	group3	2
<input type="checkbox"/>	4	group4	2
<input type="checkbox"/>	5	group5	2
<input type="checkbox"/>	6	group6	2
<input type="checkbox"/>	7	group7	2
<input type="checkbox"/>	8	group8	2

The Group control list shows the group name and the number of zones included in the group. Tick the group and then click Sound source to play music to all zones under the group. You can select more than one group.

2)Zone control

Displays the zone status, and multiple zones can be selected to play music.

<input type="checkbox"/>	Sr. No.	Zone Name	Attribution Device	Partition Status	Zone Volume	Audio Input
<input type="checkbox"/>	1	> Zone1	VA-6100P85	Normal	- 42 +	Idle
<input type="checkbox"/>	2	Zone2	VA-6100MS	O/C	- 42 +	Idle
<input type="checkbox"/>	3	Zone3	VA-6100MS	O/C	- 42 +	Idle

Total 3 Records Page 1/1

20/page < 1 > Go to 1

Number: the serial number of the zone

Zone name: the name of the zone, you can customize the zone name;

Sub-zone: status information of the sub-zone; (need to be configured with zone amplifier)

Attributed device: which device does the current zone belong to (zone amplifier or changeover)

Zone status: status information of all zones, such as zone is normal or faulty

Zone volume: status information of the zone volume

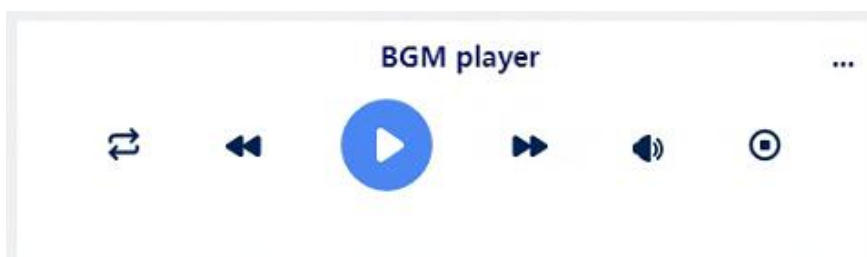
Audio input: the audio source played by the zone. If there is no audio source in broadcast shows free.

3)Audio switching

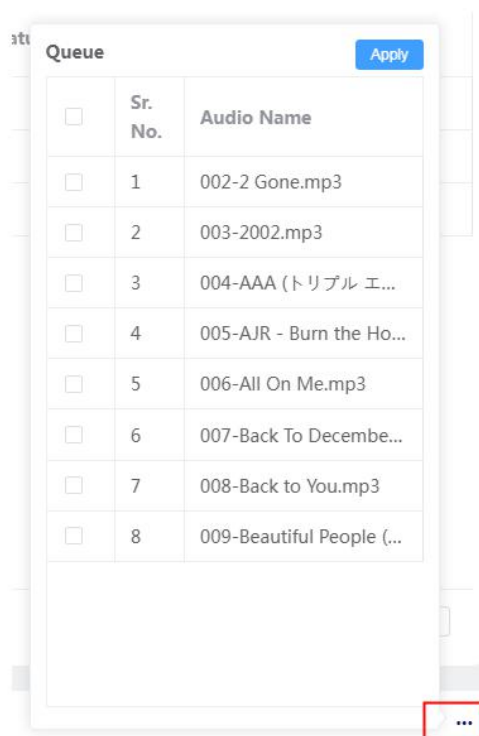


EVAC and Alert: emergency audio sources, which is initiated by only entering the emergency state.
 In normal cases, it is set gray and is not optional;
 Line1 to Line5: 5 line input audios of the host;
 BGM: background source audio;
 Select All: select all zones;
 Shut off: End the zone broadcast. Tick a zone or group and click Shut off and the broadcast task of the selected zone will be ended.. Only normal audio sources can be shut down, not EVAC and Alert.

4)BGM player



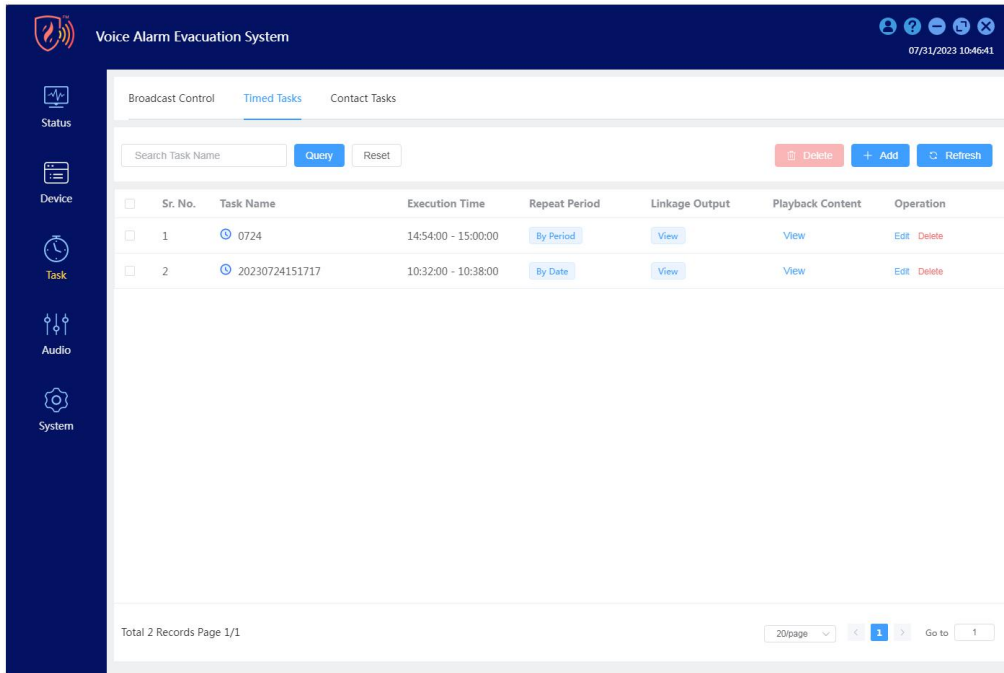
The BGM player is used to adjust the BGM songs being played in the BGM zone, the playback mode, etc., provided that at least one zone has a source input of BGM, otherwise the adjustment is invalid. Direct control, no need to select a zone. The control is for all zones where the input source is BGM. Click "... " in the upper right corner to select a song.




7.4.2.Timed tasks

Timed Tasks When the scheduled time is up, the broadcast system will be commanded to play a prerecorded message (one-time or periodic). The number of timed tasks is limited to 256. If the number of tasks has reached the upper limit, no more tasks can be added.

You can view the information of the timed tasks in the task list, and can edit or delete them.



Click  on the top right corner to add a new timed task.

The 'Add a Timed Task' form is divided into several sections:

- Basic Information:** Task name: TimedTasks20230722094550
- Time Settings:** Execution time: Start Time To End Time; Repeat period: By Period (dropdown), All (checkbox), Monday (checkbox), Tuesday (checkbox), Wednesday (checkbox), Thursday (checkbox), Friday (checkbox), Saturday (checkbox), Sunday (checkbox)
- Content Settings:** Audio Source (BGM, Line1, Line2, Line3, Line4, Line5) and Playback zone (input fields with '+' buttons); Volume (input fields with '-' and '+' buttons, set to 30); Enable Switch (checkboxes, all checked)
- BGM Settings:** (partially visible at the bottom)

Buttons for 'Cancel' and 'Save' are located at the top right of the form.

Task name: the name of the timed task

Execution time: set the start time and end time of the timed task.

Repeat cycle: set whether the timed task is executed on that same day, with two modes: by period and by date. By period: set the task to be executed on the day of the week; By date: set the task to be executed on the specified date, which can be selected arbitrarily, supporting inter-year, inter-month and inter-day selection.

Content settings: select the audio source and the zone to be played, and set the task volume at the same time. Add the zone to the play zone of the audio source, and the zone will play this audio source when the scheduled time is up.

• BGM Settings

* Playback mode: Repeat List * Play audio: Please add +

• Linkage Output

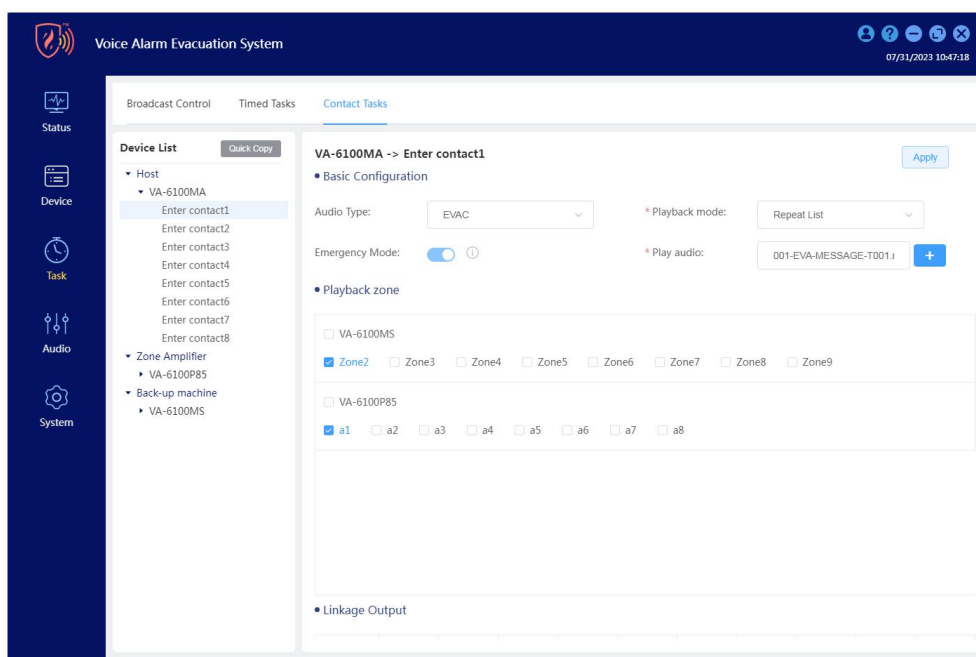
	Contact1	Contact2	Contact3	Contact4	Contact5	Contact6	Contact7	Contact8	DC24V	Select All
VA-6100MA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
VA-6100P...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
VA-6100MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>

BGM setting: If the source of playback is BGM, you can set playback mode and the audio to be played here;

Linkage output: set whether the trigger output interface of the device outputs a short-circuit signal when the timed task is playing.

7.4.3.Contact tasks

It can configure the actions that are triggered by the device's online interface in the event of a system emergency.



1)Device list

The host, zone amplifier, and changeover all have 8 trigger input interfaces. Select the interface of the device at the Device list to configure.

2)Basic setting

Set the audio source, playback mode, and playback audio for the contact task. The playback mode and playback audio can be set only when the audio source is EVAC, Alert and BGM.

• Basic Configuration

Audio Type: * Playback mode:

Emergency Mode: ⓘ * Play audio:

3)Playback zone

Set the zone that is linked to perform the task when the contact task is initiated, with multiple selections available. When a zone is linked by more than one contact task, if more than one contact is triggered simultaneously, the broadcast content is processed according to the audio priority. In the case of the same priority, the broadcast is based on the last triggered setting.

4)Linkage output

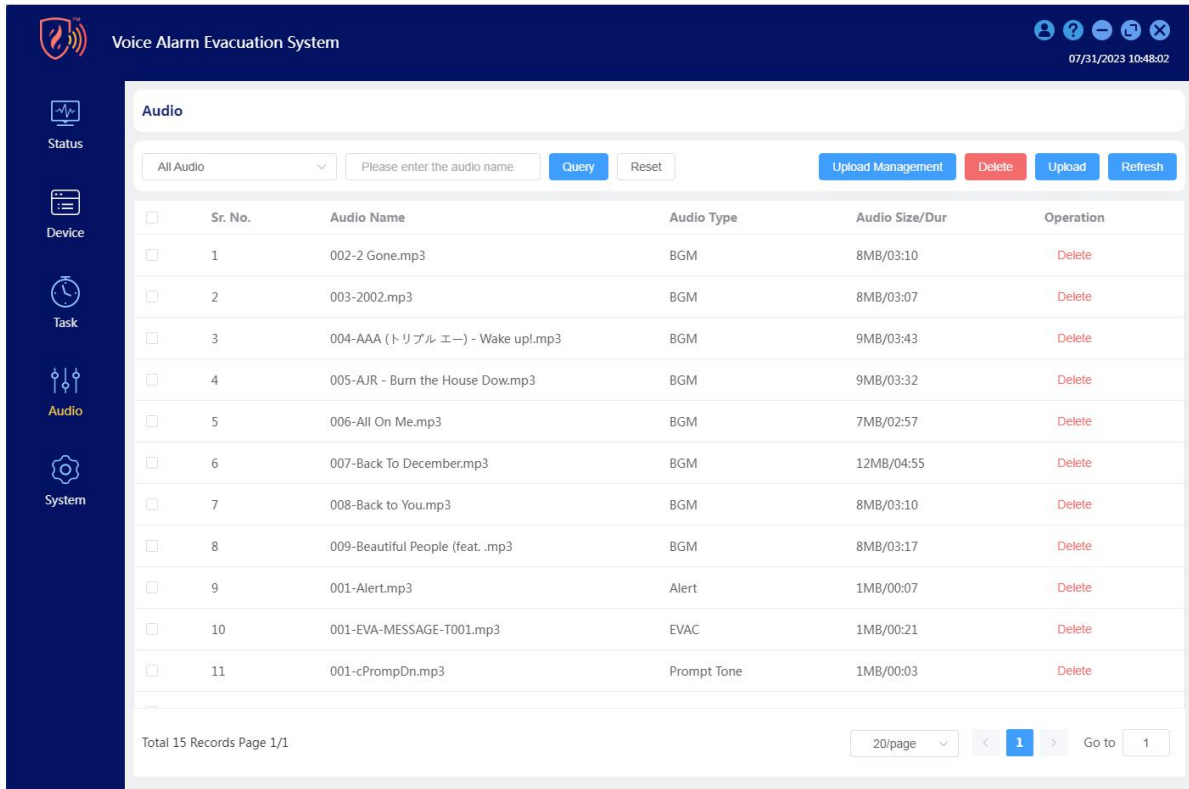
Set whether the trigger output interface of the device outputs a short-circuit signal when the contact task is playing.

• Linkage Output

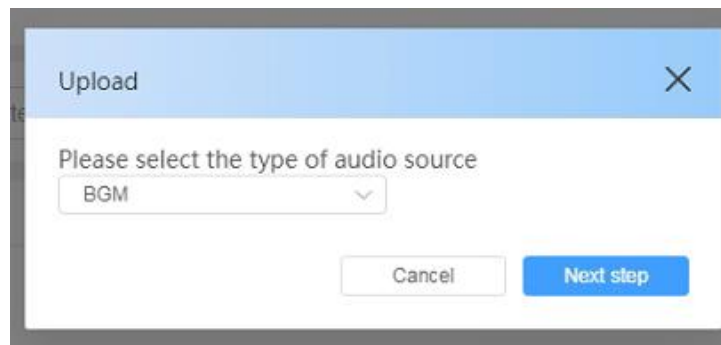
	Contact 1	Contact 2	Contact 3	Contact 4	Contact 5	Contact 6	Contact 7	Contact 8	DC24V	Select A II
VA-6100 MA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
VA-6100P 85	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
VA-6100 MS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>

7.5.Audio

There is a TF card inside the host, which stores four folders: BGM, EVAC, Alert and tone. [Audio] is mainly to manage the audio files of these 4 folders, and can perform operations such as viewing, deleting, and uploading.



Click **Upload** on the upper right corner to upload audio files. After that, select the folder where the file is saved in the pop-up window.



Note that there are naming format requirements for uploaded audio files: file format: id_file name. The id is limited to three digits, such as 001, 010, etc. The id cannot be repeated under the same type. If a user selects a file with a duplicate id, the system will not detect the file, and will fail to process the upload. The file name limit is 32 characters.

Allowed uploads at one time: 20 songs. When the user selects more than 20 files, click [Open] toast prompts "Only up to 20 audio files can be uploaded at the same time".

Single file size limit: up to 64M. The size of the tone file does not exceed 5M.

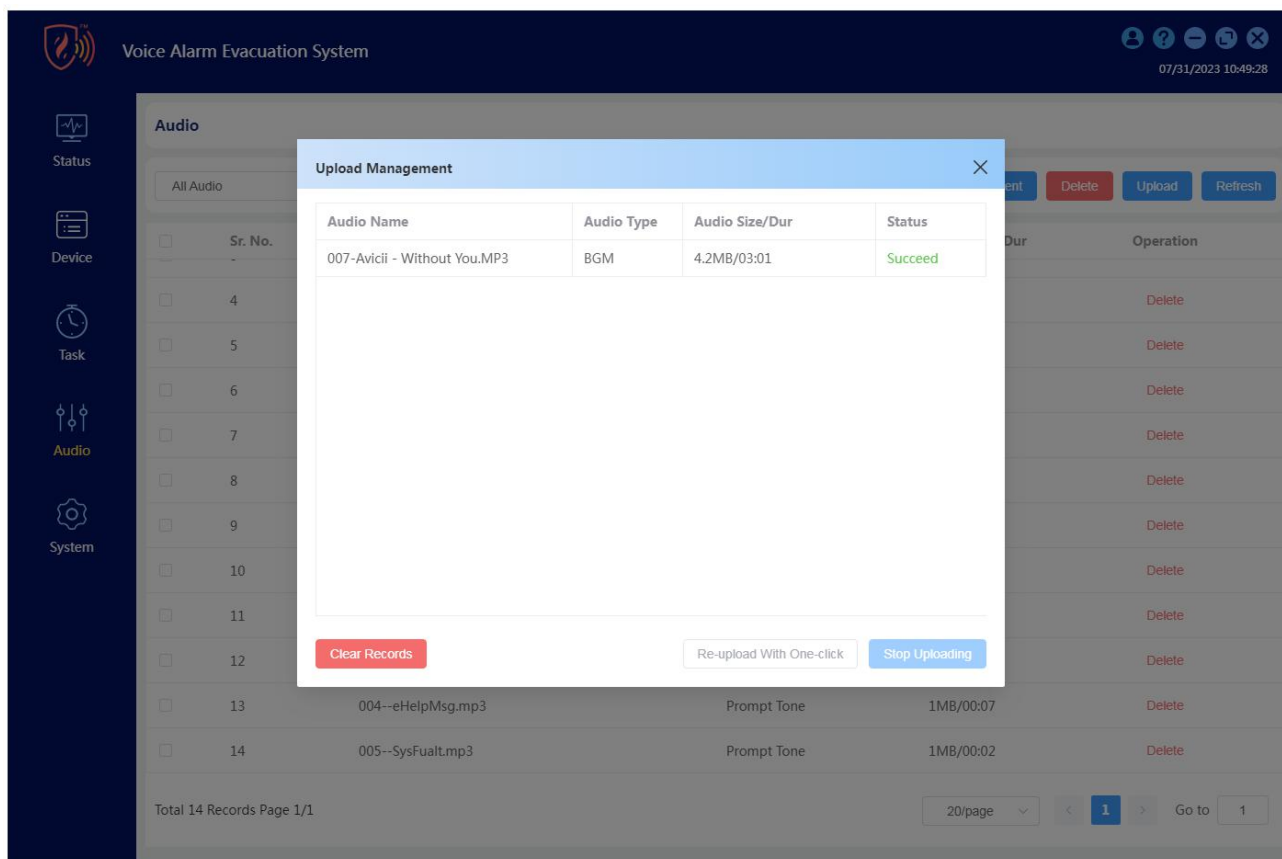
Total number of documents limit: 200 for BGM, 10 for EVAC, 10 for Alert, 50 for tone. When the system detects that the total number of files of this type has reached the upper limit, click [Open]

and the pop-up message "XX audio files must not exceed XX" is displayed.

Multiple clients uploading audio at the same time is not allowed.

Supported file formats for uploading: mp3, WAV. The system automatically filters files that do not meet the file type to prevent users from selecting.

Click [Upload Management](#) to view the upload status of the audio file.



Upload status: The status will be displayed during the upload, and upload result will be shown as success or failure.

Empty records: all non-uploaded records will be emptied, and cannot be clicked during uploading.

Stop uploading: all the uploading audio will be cancelled, and the result will be shown as "Cancelled" directly after cancellation.

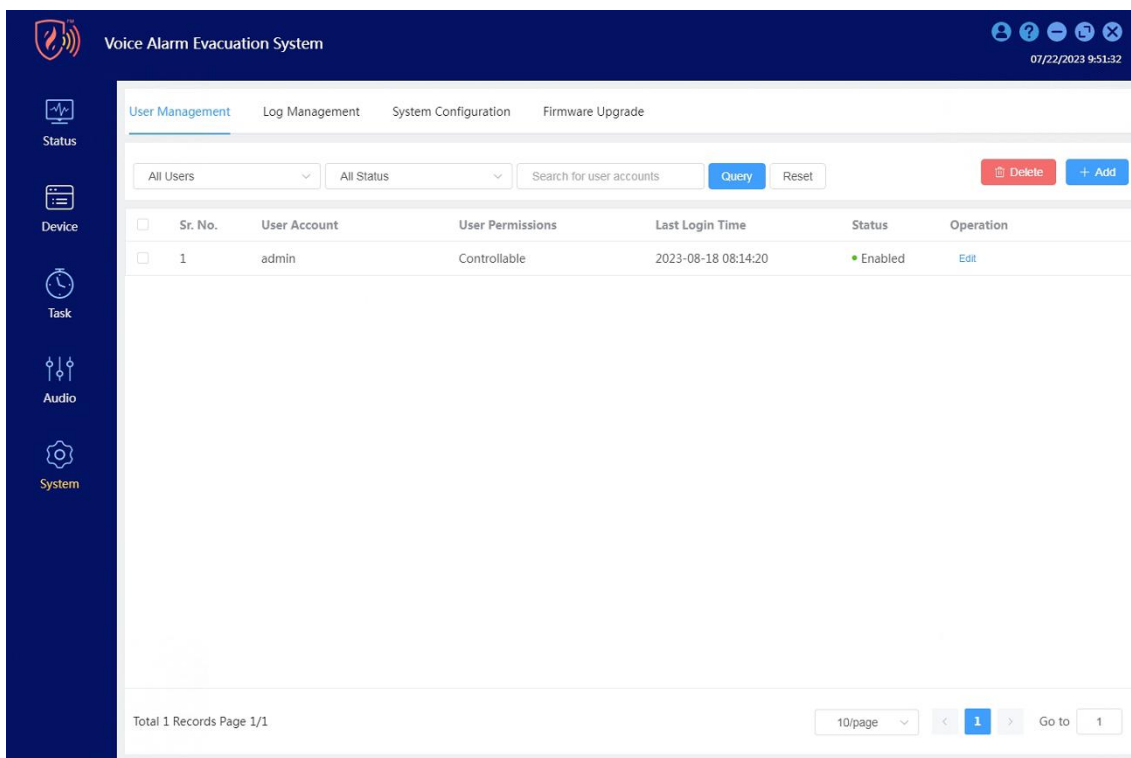
One-key re-upload: Re-upload failed and canceled files with one click.


7.6.System

7.6.1.User management

Manage user information, including user name, password, permissions and zones that can be controlled. Only users with "Administrator" privileges can use this function. It can add, disable, delete, and edit user accounts. Disabled users cannot log in to the client. Users who are logging in

will be forced to log out when they are disabled.



Click  to add an account.

Account number :

Password : [Reset password](#)

Permissions

Read Only Controllable

Status Device Audio

Task System


Account number: a combination of numbers and letters within 1-20 digits. The account number cannot be repeated in the system.

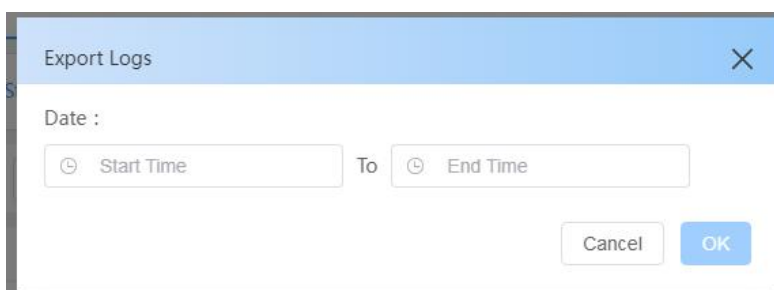
Password: the initial password is 123456. When adding a new user, the administrator only has the authority to reset the password for the user but not to set the password for the user.

Permissions: There are only two types of user rights: readable and controllable 2, without complex

user distinction. 1.Read-only: The checked function module can only be viewed. 2. Controllable: ① The selected function modules can be added, deleted or modified. ② System default account administrator, who owns all permissions, and can edit the password. For example: for all users with controllable rights to the task module, they have same permission to view and operate the scheduled task list. Situations like the scheduled task created by user A can only be edited by user A are non-existent.

7.6.2.Log management

Log all operations and status of the system, including: operation log, task log, status log. Log records cannot be manually deleted and it supports filtering log records by date; click  to save logs in Excel format.



Operation log records PC client user operation log. Record the latest 20,000.

Sr. No.	Operating User	Log Content	Operation Time	Login Server ip
1	root	查询用户列表	2023-07-31 10:50:06	172.16.33.181
2	root	查询用户列表	2023-07-31 10:49:47	172.16.33.181
3	root	上传音频文件	2023-07-31 10:49:25	172.16.33.181
4	root	删除音频信息	2023-07-31 10:49:05	172.16.33.181
5	root	修改定时任务信息:20230724151717	2023-07-31 10:46:40	172.16.33.181
6	root	创建任务:20230724151717	2023-07-31 10:46:40	172.16.33.181
7	root	查看单个任务:0724	2023-07-31 10:46:36	172.16.33.181
8	root	查询主机设备参数:30-3a-ba-0d-84-e1	2023-07-31 10:45:49	172.16.33.181
9	root	查询全局设置参数	2023-07-31 10:45:45	172.16.33.181
10	root	配置分组信息:group8	2023-07-31 10:45:35	172.16.33.181
11	root	修改分组名称:分组8->group8	2023-07-31 10:45:35	172.16.33.181
12	root	配置分组信息:group7	2023-07-31 10:45:29	172.16.33.181

The task log records all tasks initiated by the system, recording the latest 10,000 entries. Once a

task is initiated, the log is displayed. In this case, the end time is empty and it will get supplemental display after the task is completed. Each task has 2 logs. ① A log is recorded when a task is initiated, at this time the end time is empty ② A log is recorded when a task is completed, at this time the start time and end time are displayed.

The screenshot shows the 'Voice Alarm Evacuation System' interface. The 'Log Management' section is active, displaying a table of task logs. The table has columns for Sr. No., Task Name, Input Audio Source, Playback Zone/Device, Start Time, and End Time. The logs show tasks initiated on 2023-07-29 and completed on 2023-07-24. The interface includes a search bar, 'Query', 'Reset', and 'Export' buttons, and a pagination control at the bottom showing 'Total 309 Records Page 15/16'.

Sr. No.	Task Name	Input Audio Source	Playback Zone/Device	Start Time	End Time
292	[08]		View	2023-07-29 12:10:20	-
293	0724	Line4	View	-	2023-07-24 15:00:00
294	MAC[42,4C,45,0C,83,40]-[08]		View	2023-07-29 12:10:13	-
295	MAC[42,4C,45,0C,83,40]-[08]		View	2023-07-29 12:10:13	-
296	MAC[42,4C,45,0C,83,40]-[08]		View	2023-07-29 12:10:13	-
297	MAC[42,4C,45,0C,83,40]-[08]		View	2023-07-29 12:10:11	-
298	0724	Line3	View	-	2023-07-24 15:00:00
299	MAC[42,4C,45,0C,83,40]-[08]		View	2023-07-29 12:10:11	-
300	MAC[42,4C,45,0C,83,40]-[08]		View	2023-07-29 12:10:11	-

The status log records the device status display details, and every status change will be recorded. Record the latest 10,000 entries.

Voice Alarm Evacuation System

07/31/2023 10:51:15

User Management Log Management System Configuration Firmware Upgrade

Operation Log Task logs Status Logs

Start Time To End Time Search Task Name Query Reset Export

Sr. No.	Task Name	Input Audio Source	Playback Zone/Device	Start Time	End Time
292	[08]		View	2023-07-29 12:10:20	-
293	0724	Line4	View	-	2023-07-24 15:00:00
294	MAC[42,4C,45,0C,83,40]-[08]		View	2023-07-29 12:10:13	-
295	MAC[42,4C,45,0C,83,40]-[08]		View	2023-07-29 12:10:13	-
296	MAC[42,4C,45,0C,83,40]-[08]		View	2023-07-29 12:10:13	-
297	MAC[42,4C,45,0C,83,40]-[08]		View	2023-07-29 12:10:11	-
298	0724	Line3	View	-	2023-07-24 15:00:00
299	MAC[42,4C,45,0C,83,40]-[08]		View	2023-07-29 12:10:11	-
300	MAC[42,4C,45,0C,83,40]-[08]		View	2023-07-29 12:10:11	-

Total 309 Records Page 15/16

20/page < 1 ... 11 12 13 14 15 16 > Go to 15

7.6.3. System configuration

System configuration is used to set the basic information of the system, such as language, time, restoring factory settings, etc.

Voice Alarm Evacuation System

07/31/2023 10:52:24

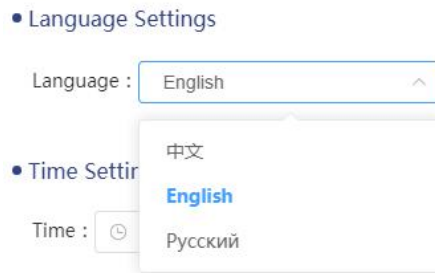
User Management Log Management System Configuration Firmware Upgrade

- Language Settings
 - Language : English [Apply](#)
- Time Settings
 - Time : 2023/07/31 10:52:13 [Apply](#)
- Backup & Restore
 - [Restore Factory Settings](#)

Total 309 Records Page 15/16

20/page < 1 ... 11 12 13 14 15 16 > Go to 15

a. Time & Language



Language setting: set the language display of PC software and host MA, support Chinese and English display.

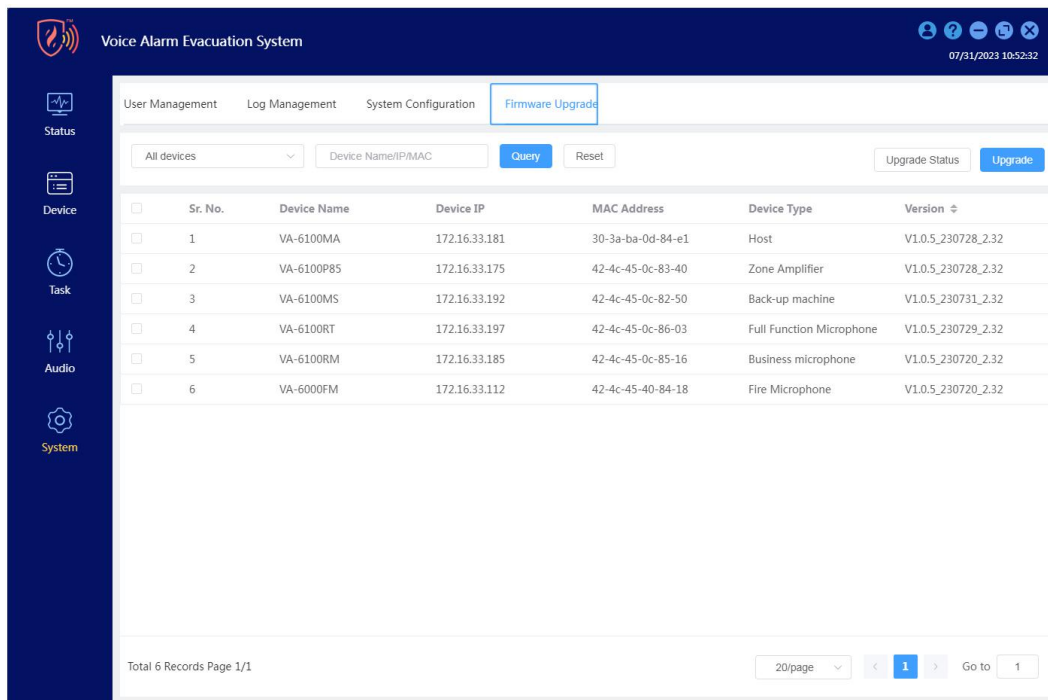
Time setting: modify the host time, obtain the current time and display it by default.

b. Backup & Restore

Restore factory setting: clear the system parameters and restore the factory settings.

7.6.4. Firmware upgrade

Used to upgrade the device firmware version. Only users with controllable privileges can operate.



Upgrade steps:

1. Select devices of the same type first. Only devices of the same type can be selected;
2. Click the [Upgrade] button. If the selected device has multiple types, after clicking the [Upgrade] button, a pop-up window will prompt "Please select a device of the same type"
3. Select the file that meets the upgrade package format in the local computer, and the system will

automatically filter the files that do not meet the format to prevent users from selecting. Click the [Start upgrade] button to start upgrading

4. Click [Upgrade status], a pop-up window shows the upgrade progress of each device.

8.Common Operating Instructions

8.1.Explanation of common terms

Controller: VA-6100MA

Changeover: VA-6100MS

Zone amplifier: VA-6100P85

Fire mic: VA-6100FM

Service mic: VA-6100RM

Digital mic: VA-6100RT

PTT: microphone on the controller panel

Emergency voice: EVAC, Alert

8.2.Enter emergency mode

Method 1: Automatically - emergency event triggering or fire linkage bus linkage;

Method 2: Manually - manually press the big red button with cover on the panel (VA-6100MA or VA-6100FM or VA-6100RT);

NOTE: The EVAC and Alert voice messages must be played in emergency mode.

8.3.Exit emergency mode

Method 1: By pressing the VA-6100MA Silencing key, VA-6100FM Fault reset and Shut off key, and the VA-6100RT big red button with cover;

Method 2: Control via fire linkage dry contact input;

Method 3: Control via fire linkage reset.

8.4.Play emergency voice

Manually press the big red button with cover on the panel (VA-6100MA or VA-6100FM or VA-6100RT) to enter the emergency mode;

Select the zone;

Select the emergency voice (EVAC or Alert).

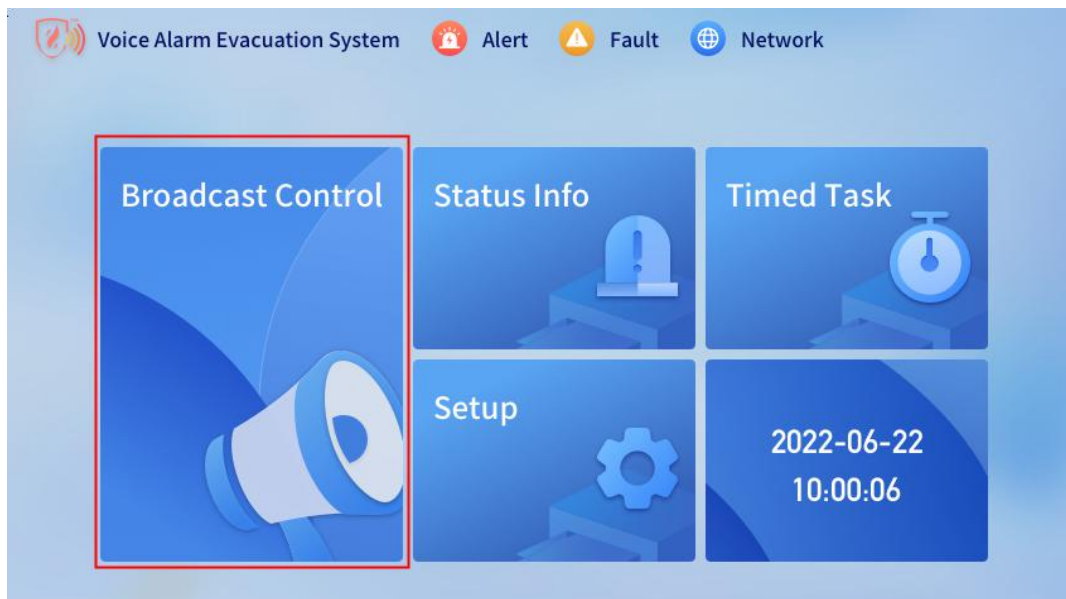
8.5.End alarm broadcasting

Emergency voice broadcasting (EVAC or Alert) cannot be ended by directly selecting the zone and then pressing the Shut off button. It is necessary to exit the emergency mode to end the alarm broadcasting.

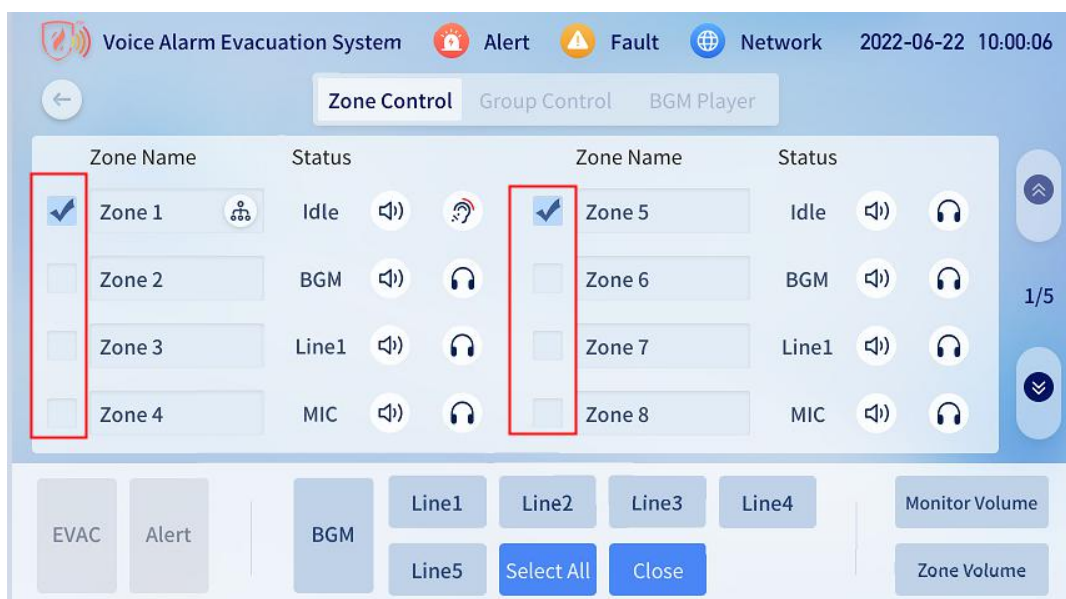
8.6.Play ordinary voice

a.Host broadcasting

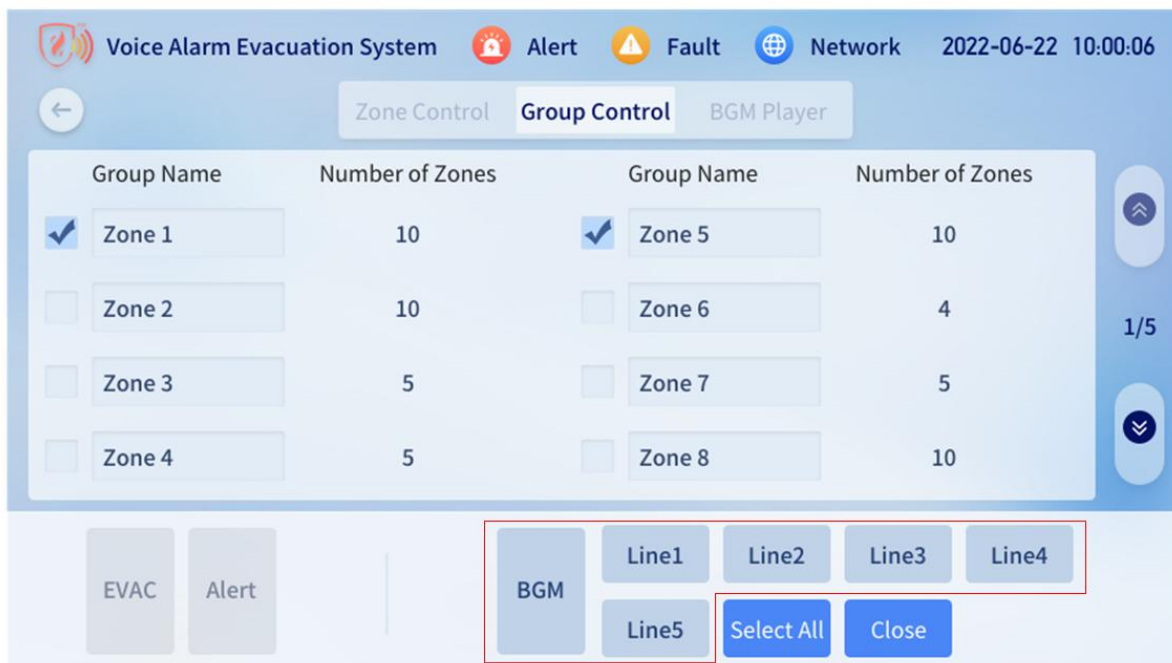
1. Enter the home page of the host interface and click [Broadcast control]



2. Tick zones, multiple selections available

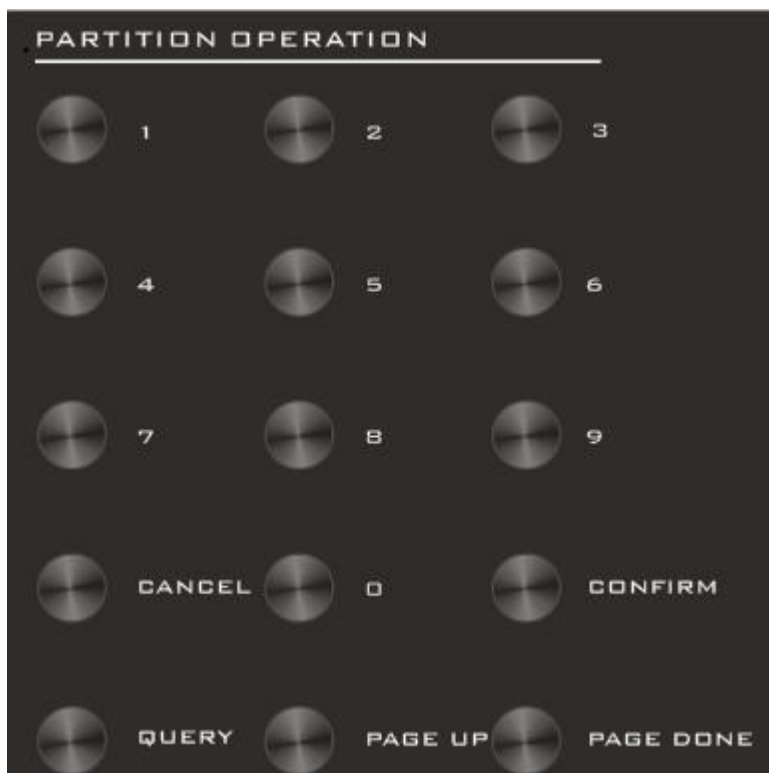


3. Click on the audio to play

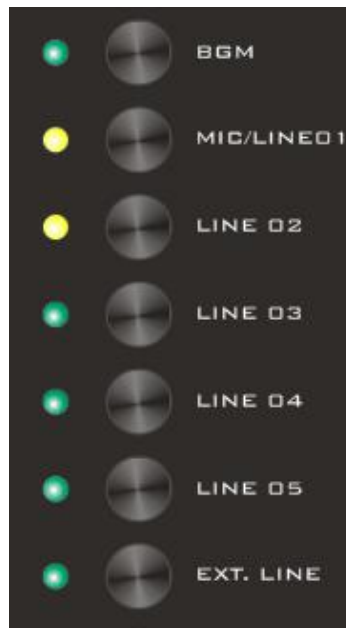


b. FM/RM playback

1. Select the zone and press the Confirm key. If selecting multiple zones is required, then multiple confirmations are required. For example, to select zone 1 and 11, first press Key 1, then press Confirm; then press Key 1 twice, and press Confirm.

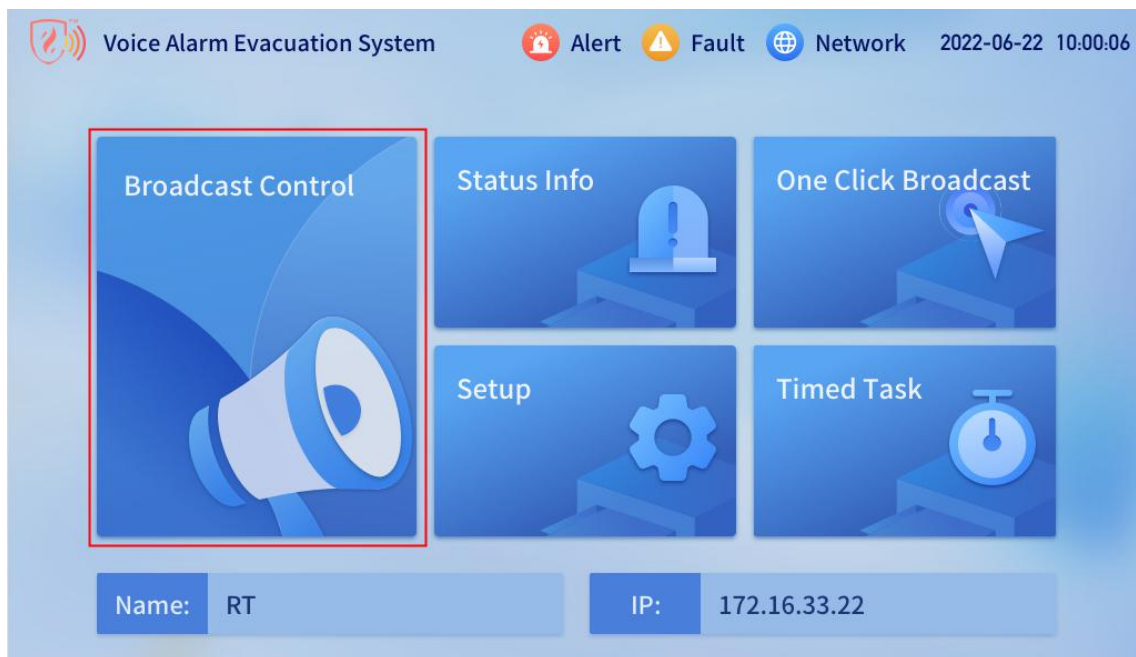


2.Then press the Source key to play the audio.

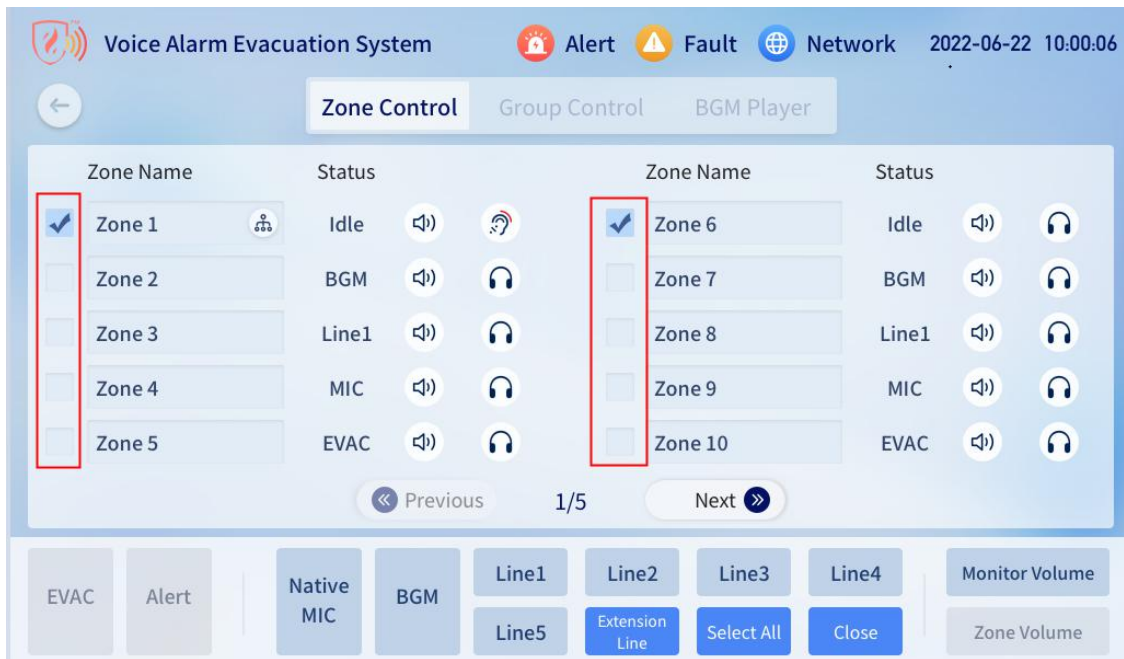


c.RT playback

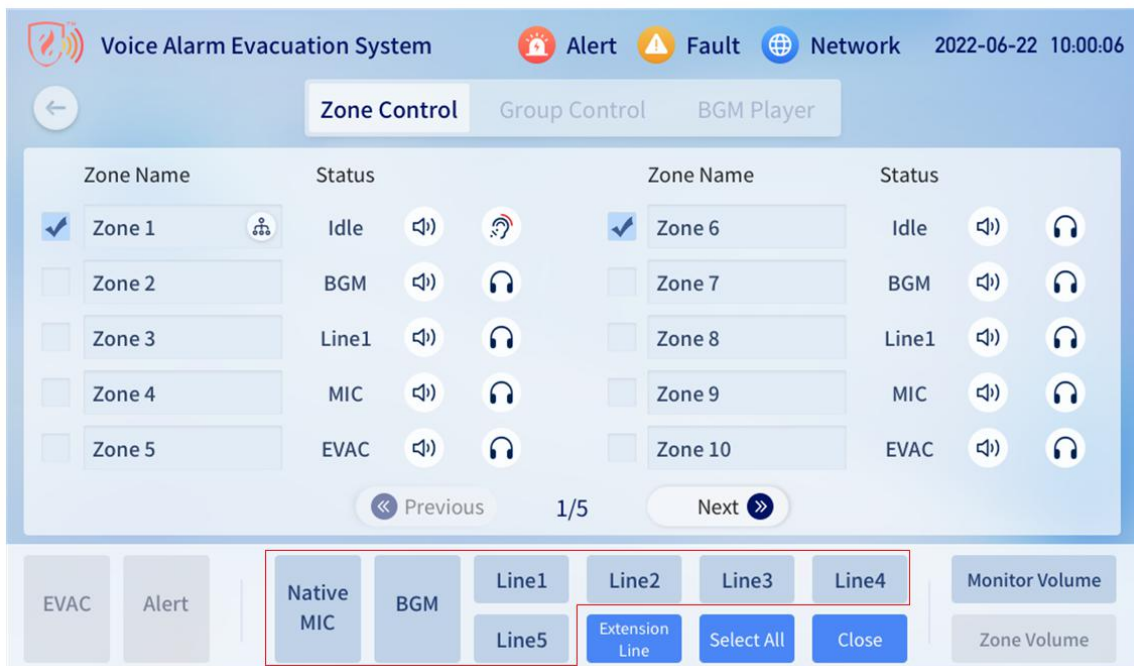
1.Enter the home page of RT interface and click [Broadcast control].



2.Tick zones, multiple selections available.



3. Select the audio source to play



d. PC software playback

1. Log in to the PC software and enter the [Broadcast control] bar.

Voice Alarm Evacuation System 07/31/2023 10:45:49

Broadcast Control | Timed Tasks | Contact Tasks

Group Control

<input type="checkbox"/>	Sr. No.	Gr Name	Number of Zones
<input type="checkbox"/>	1	group1	2
<input type="checkbox"/>	2	group2	2
<input type="checkbox"/>	3	group3	2
<input type="checkbox"/>	4	group4	2
<input type="checkbox"/>	5	group5	2
<input type="checkbox"/>	6	group6	2
<input type="checkbox"/>	7	group7	2
<input type="checkbox"/>	8	group8	2

Zone Control

<input type="checkbox"/>	Sr. No.	Zone Name	Attribution Device	Partition Status	Zone Volume	Audio Input
<input type="checkbox"/>	1	> Zone1	VA-6100P85	Normal	42	Idle
<input type="checkbox"/>	2	Zone2	VA-6100MS	O/C	42	Idle
<input type="checkbox"/>	3	Zone3	VA-6100MS	O/C	42	Idle

Total 3 Records Page 1/1

Audio Switching

EVAC Alert

Line1 Line2 Line3 Line4 Line5

BGM Sel All Z Close

BGM player

Playing:006-All On Me.mp3

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2. Tick zones, multiple selections available.

Voice Alarm Evacuation System 07/31/2023 10:45:49

Broadcast Control | Timed Tasks | Contact Tasks

Group Control

<input type="checkbox"/>	Sr. No.	Gr Name	Number of Zones
<input type="checkbox"/>	1	group1	2
<input type="checkbox"/>	2	group2	2
<input type="checkbox"/>	3	group3	2
<input type="checkbox"/>	4	group4	2
<input type="checkbox"/>	5	group5	2
<input type="checkbox"/>	6	group6	2
<input type="checkbox"/>	7	group7	2
<input type="checkbox"/>	8	group8	2

Zone Control

<input type="checkbox"/>	Sr. No.	Zone Name	Attribution Device	Partition Status	Zone Volume	Audio Input
<input type="checkbox"/>	1	> Zone1	VA-6100P85	Normal	42	Idle
<input type="checkbox"/>	2	Zone2	VA-6100MS	O/C	42	Idle
<input type="checkbox"/>	3	Zone3	VA-6100MS	O/C	42	Idle

Total 3 Records Page 1/1

Audio Switching

EVAC Alert

Line1 Line2 Line3 Line4 Line5

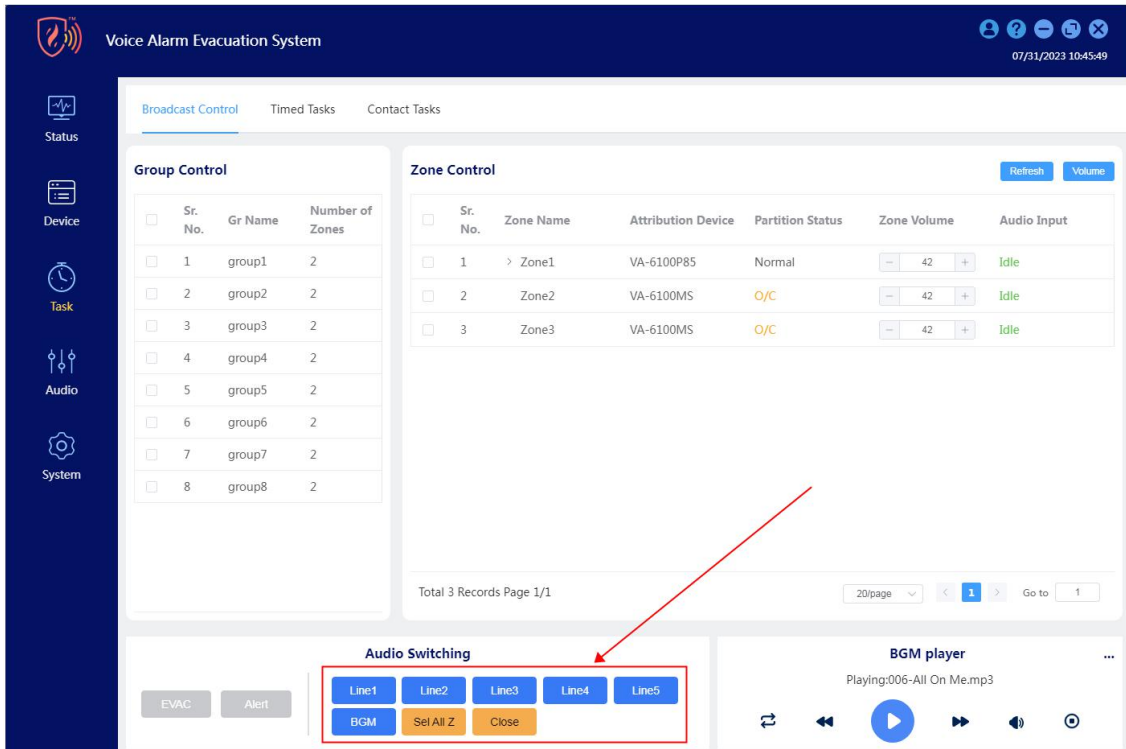
BGM Sel All Z Close

BGM player

Playing:006-All On Me.mp3

⏮ ⏪ ⏩ ⏭ 🔊 🎧

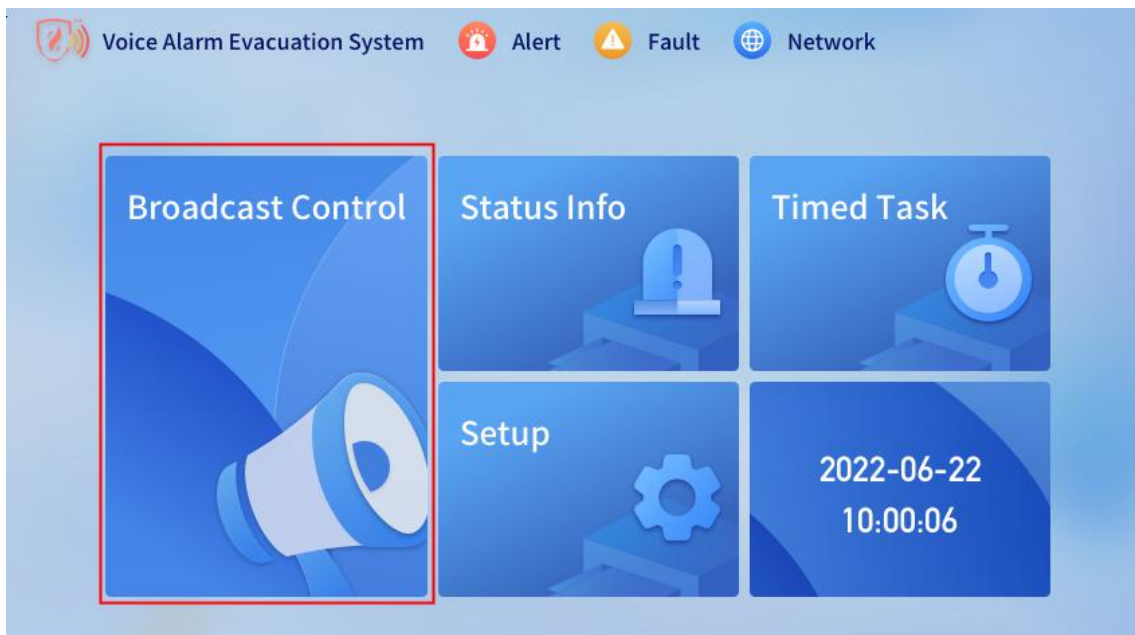
3. Select the audio source to play.



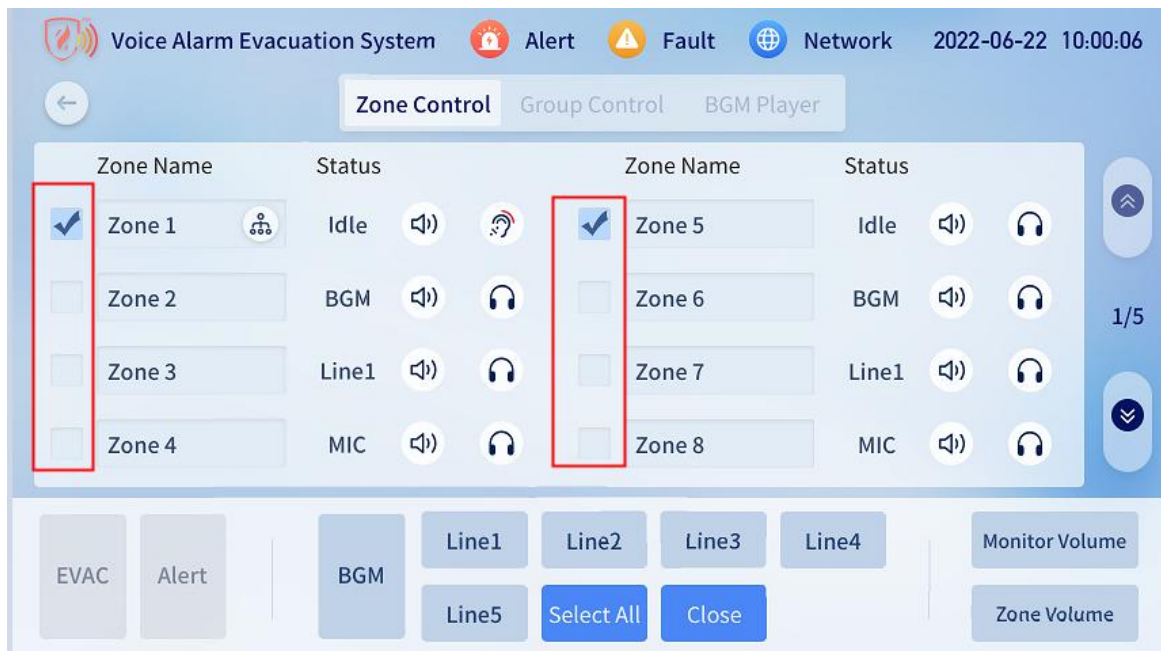
8.7. Microphone broadcasting

a. Controller PPT

1. Enter the home page of the host interface and click [Broadcast control].



2. Tick zones, multiple selections available

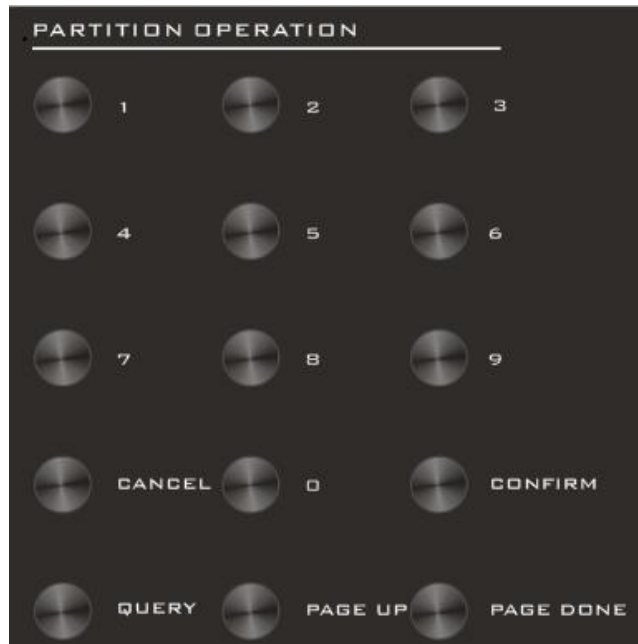


3. Press the key on the PTT to initiate the broadcast, and the broadcast ends 5 seconds after you release the key. If no zone is selected, pressing the key on the PTT will initiate a zone-wide microphone broadcast.

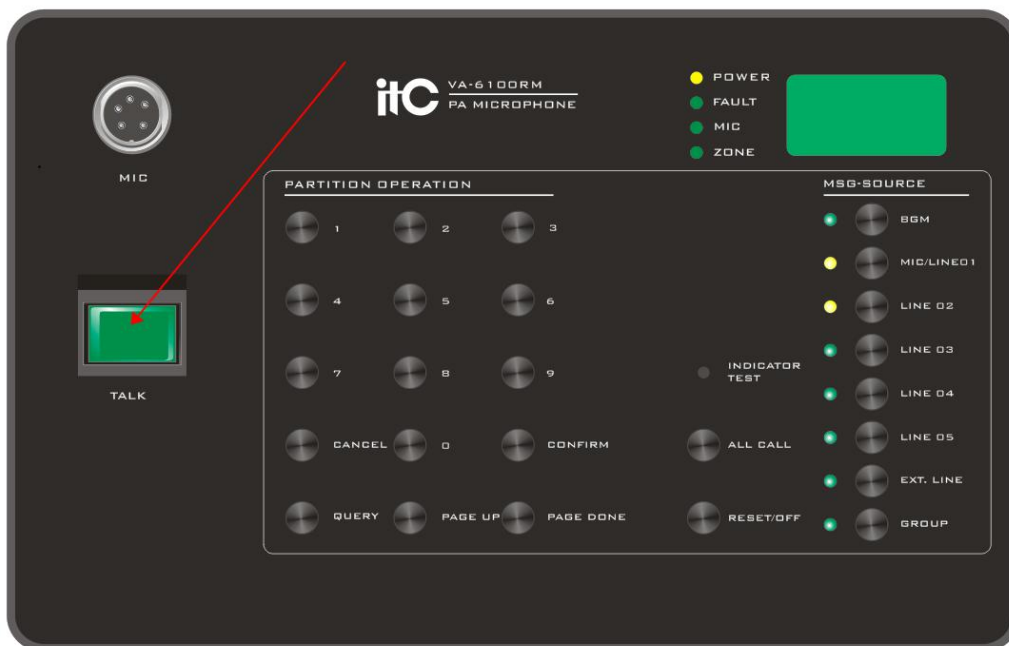


b.RM

1. Select the zone and press the Confirm key. If selecting multiple zones is required, then multiple confirmations are required. For example, to select zone 1 and 11, first press Key 1, then press Confirm; then press Key 1 twice, and press Confirm. If no zone is selected, the default is to initiate a zone-wide broadcast.

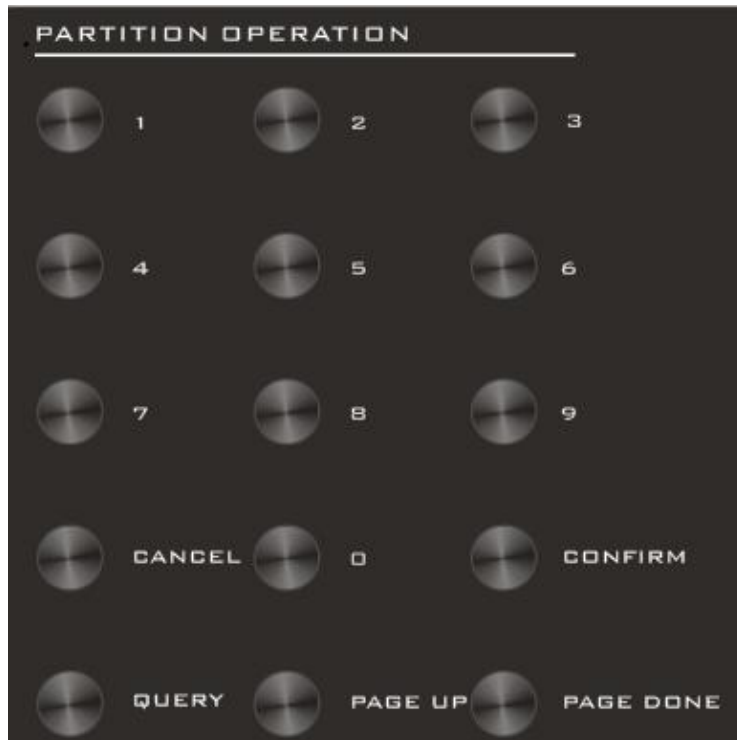


2. Press the Speech key to initiate a microphone broadcast, and press it again to end the speech.

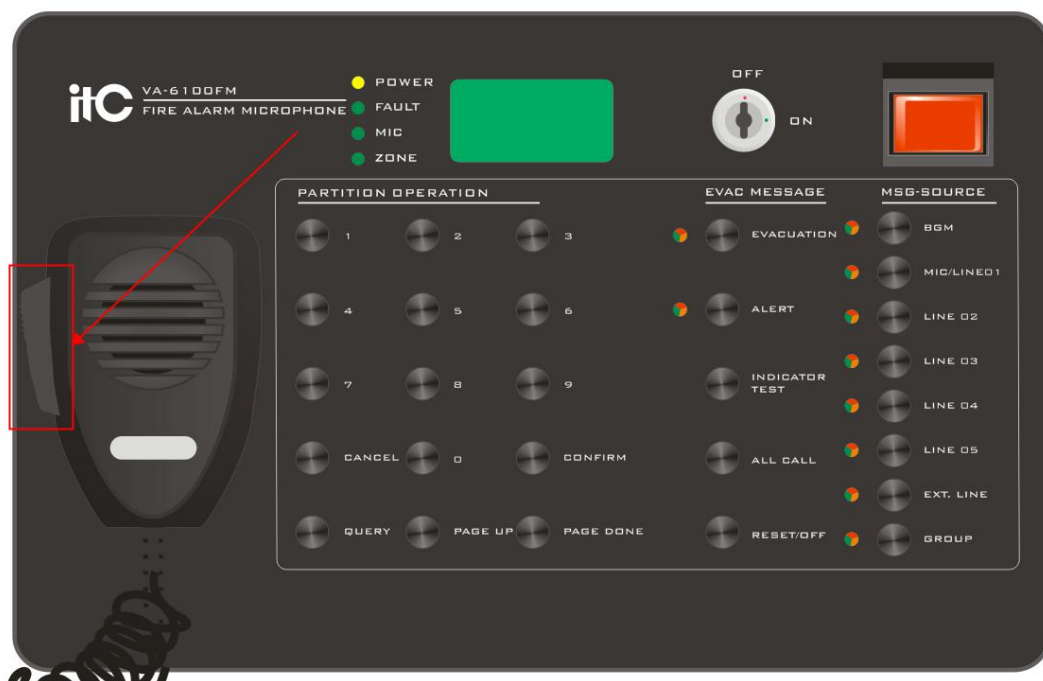


c.FM

1. Select the zone and press the Confirm key. If selecting multiple zones is required, then multiple confirmations are required. For example, to select zone 1 and 11, first press Key 1, then press Confirm; then press Key 1 twice, and press Confirm.

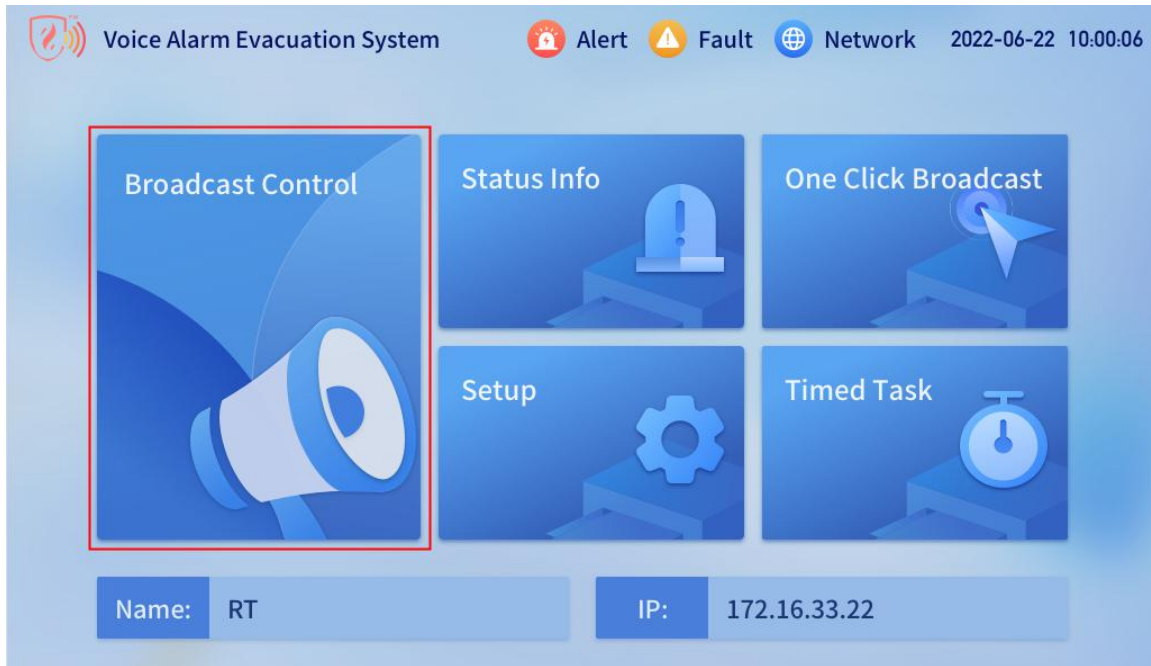


2. Press the key on PPT to initiate a broadcast, and release it to end the broadcast. If no zone is selected, press the key on PTT to initiate a zone-wide microphone broadcast.



d.RT

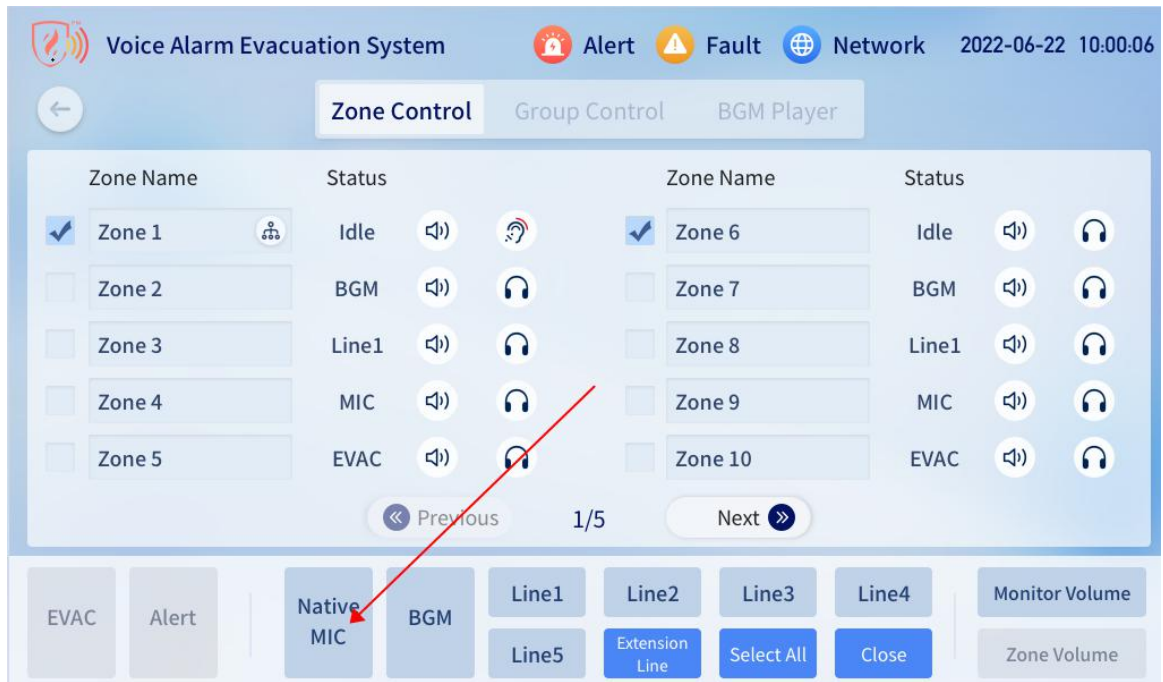
1. Enter the home page of RT interface and click [Broadcast control]



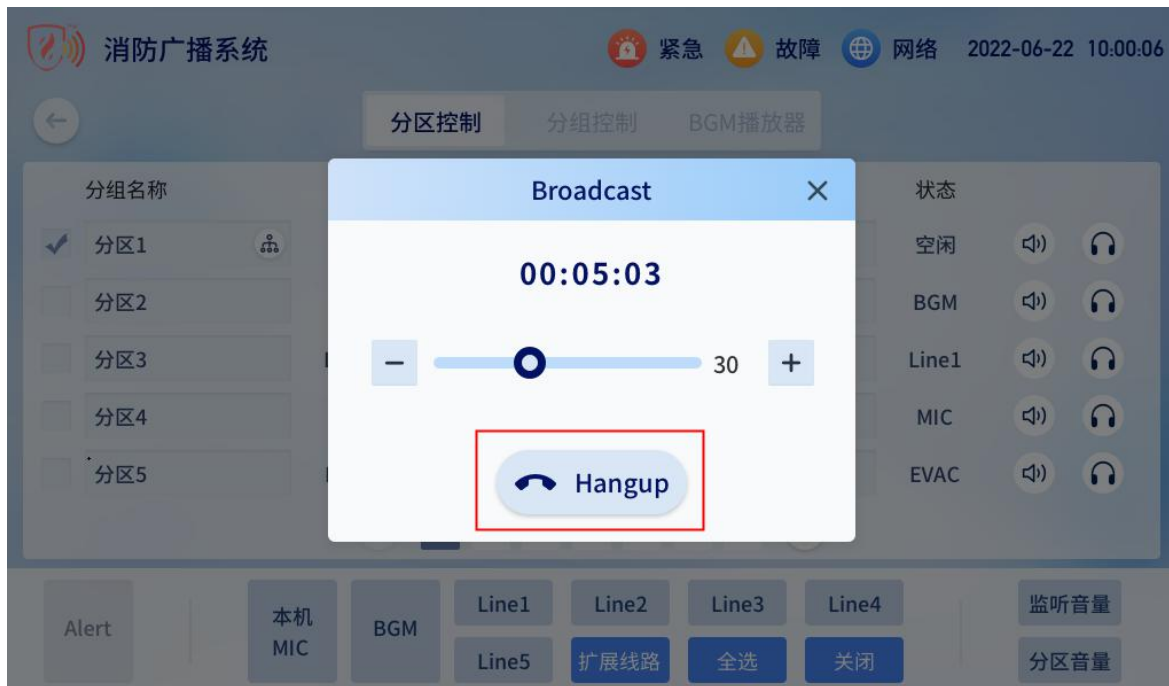
2. Tick zones, multiple selections available



3. Click "Local MIC" to initiate RT microphone broadcasting.

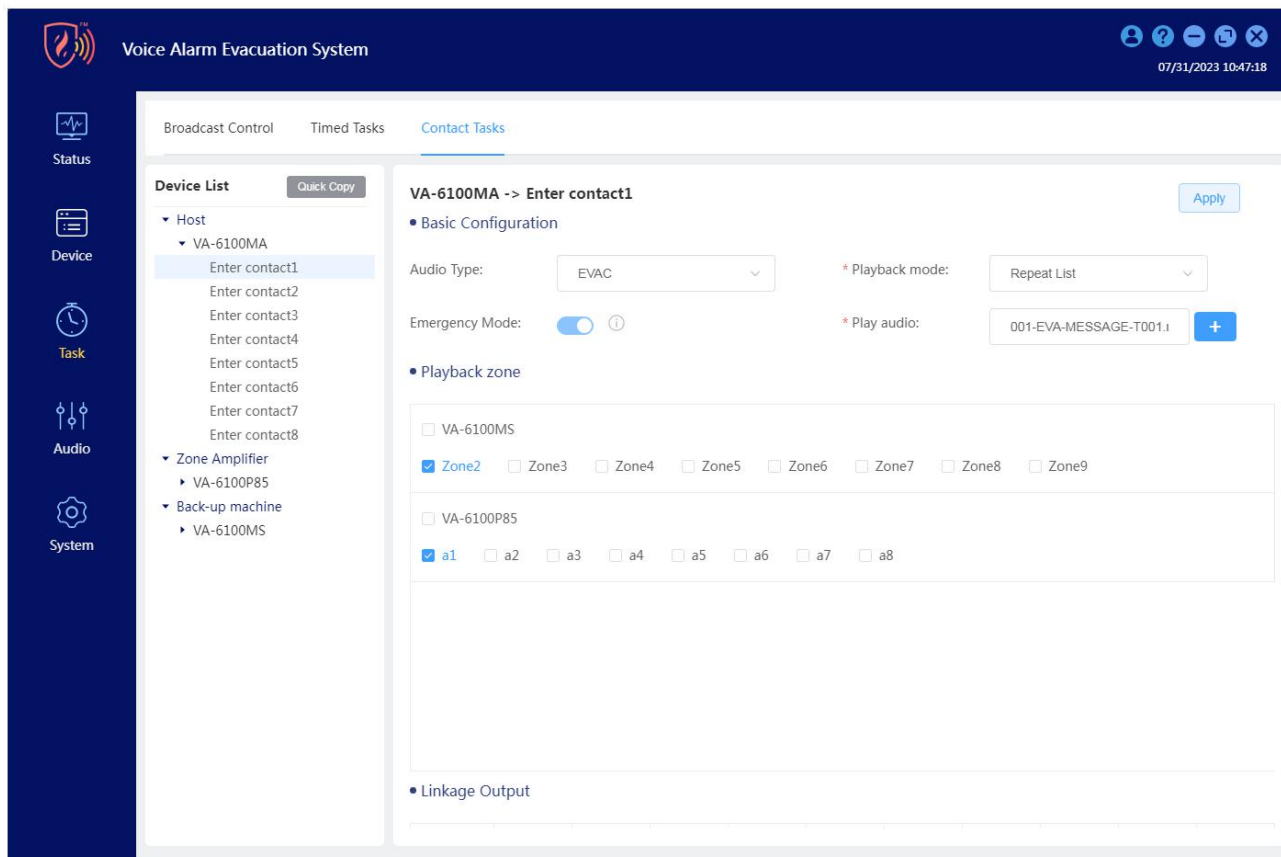


4. Click "Hang up" to end the broadcast task.



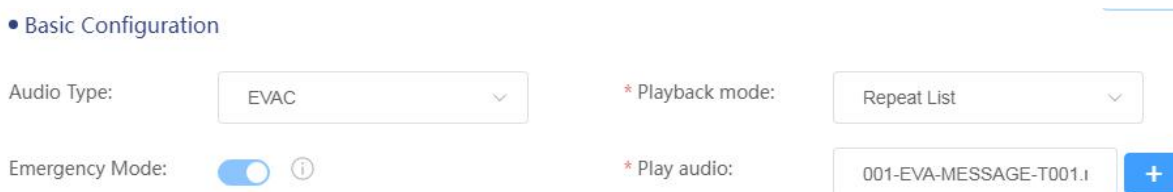
8.8.Fire linkage configuration

1. Log in to the PC software and enter the Tasks - Contacts Tasks screen.



2. Select the device that needs fire linkage docking, and then select the contacts to be configured. The controller, zone amplifier and changeover all have 8 trigger input interfaces.

3. Set the alarm audio and playback mode.



4. Select the zone where the fire linkage performs the task when the contact task is initiated, with multiple selections available. When a zone is associated by multiple contact tasks, if multiple contacts are triggered simultaneously, the broadcast content is processed according to the audio priority. In the case of the same priority, the broadcast is based on the last triggered setting.

• Playback zone

VA-6100MS

Zone2 Zone3 Zone4 Zone5 Zone6 Zone7 Zone8 Zone9

VA-6100P85

a1 a2 a3 a4 a5 a6 a7 a8

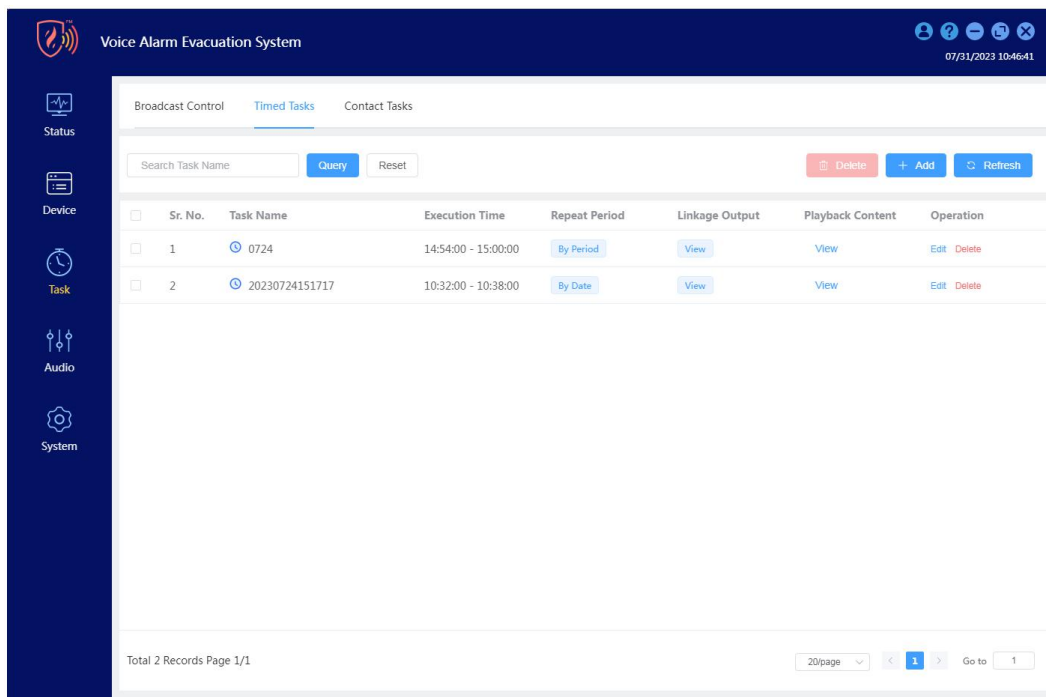
5. Set whether the trigger output interface of the device outputs a short-circuit signal when the contact task is playing.

• Linkage Output

	Contact 1	Contact 2	Contact 3	Contact 4	Contact 5	Contact 6	Contact 7	Contact 8	DC24V	Select A II
VA-6100 MA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
VA-6100P 85	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
VA-6100 MS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>

8.9.Timed broadcast setting

1. Log in to the PC software and enter the Tasks - Timed Tasks screen.



2. Click  on the top right corner to add a new timed task.

3. Set the name of the timed task

4. Set the start time and end time of the timed tasks.

Set the repetition period for timed task, with two modes: by period and by date. By period: set the task to be executed on the day of the week; By date: set the task to be executed on the specified date, which can be selected arbitrarily, supporting inter-year, inter-month and inter-day selection.

5. Select the audio source and the zone to be played, and set the task volume at the same time. Add the zone to the play zone of the audio source, and the zone will play this audio source when the scheduled time is up.

6. If the source of playback is BGM, set playback mode and the audio to be played; if dry node signals is required outputting, tick the contact for linkage output, then the corresponding contact of the device will output the short-circuit signal when the timed task is executed.

• BGM Settings

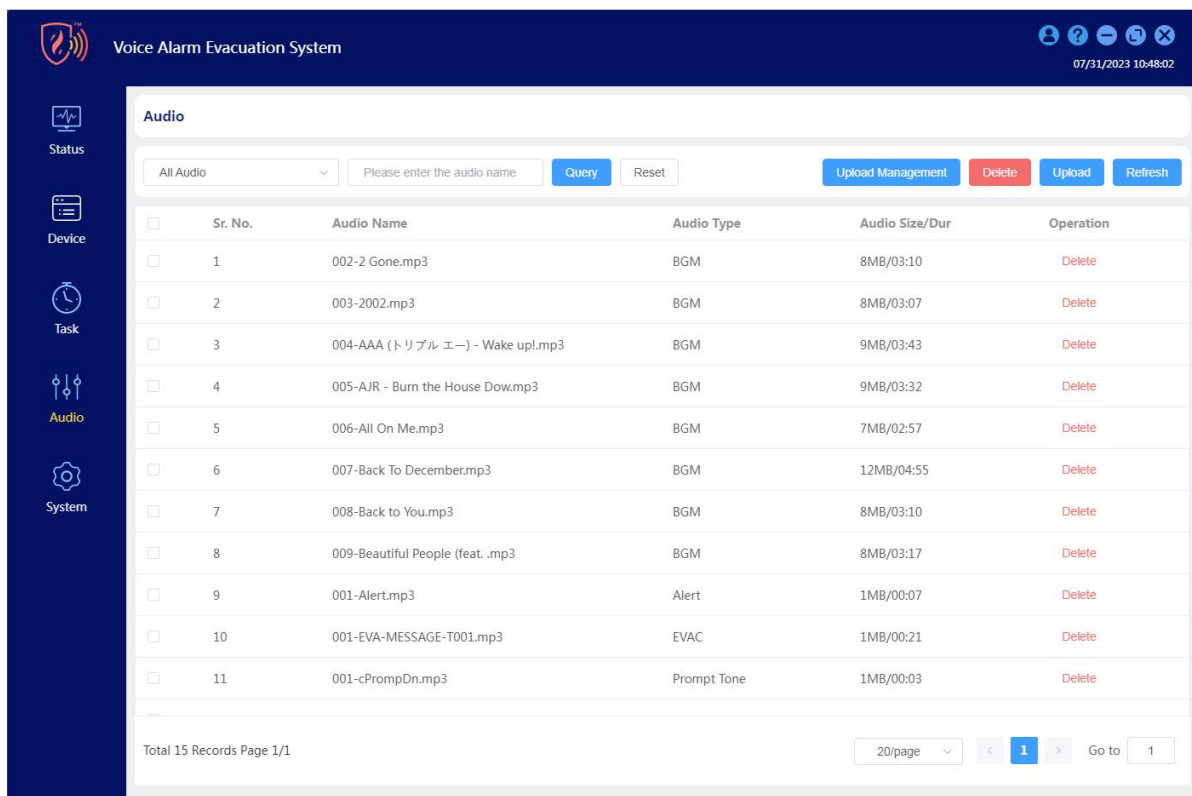
* Playback mode: * Play audio: 

• Linkage Output

	Contact1	Contact2	Contact3	Contact4	Contact5	Contact6	Contact7	Contact8	DC24V	Select All
VA-6100MA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
VA-6100P...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
VA-6100MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>

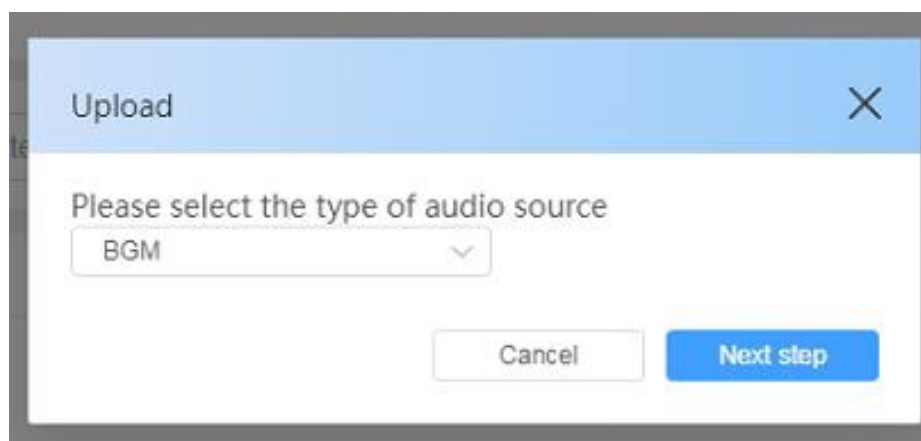
8.10. Replace audio files

1. The internal audio of the system is stored in the TF card of the controller, with 4 folders of BGM, EVAC, Alert and tone. To upload or replace the audio files in the folders, you need to log in the PC software and enter the [Audio] interface.



2. To delete an existing audio file, click on the file and then "Delete" to remove the audio file.

3. Click **Upload** in the upper right corner to upload the audio file. After that, select the folder where the file is saved in the pop-up window.

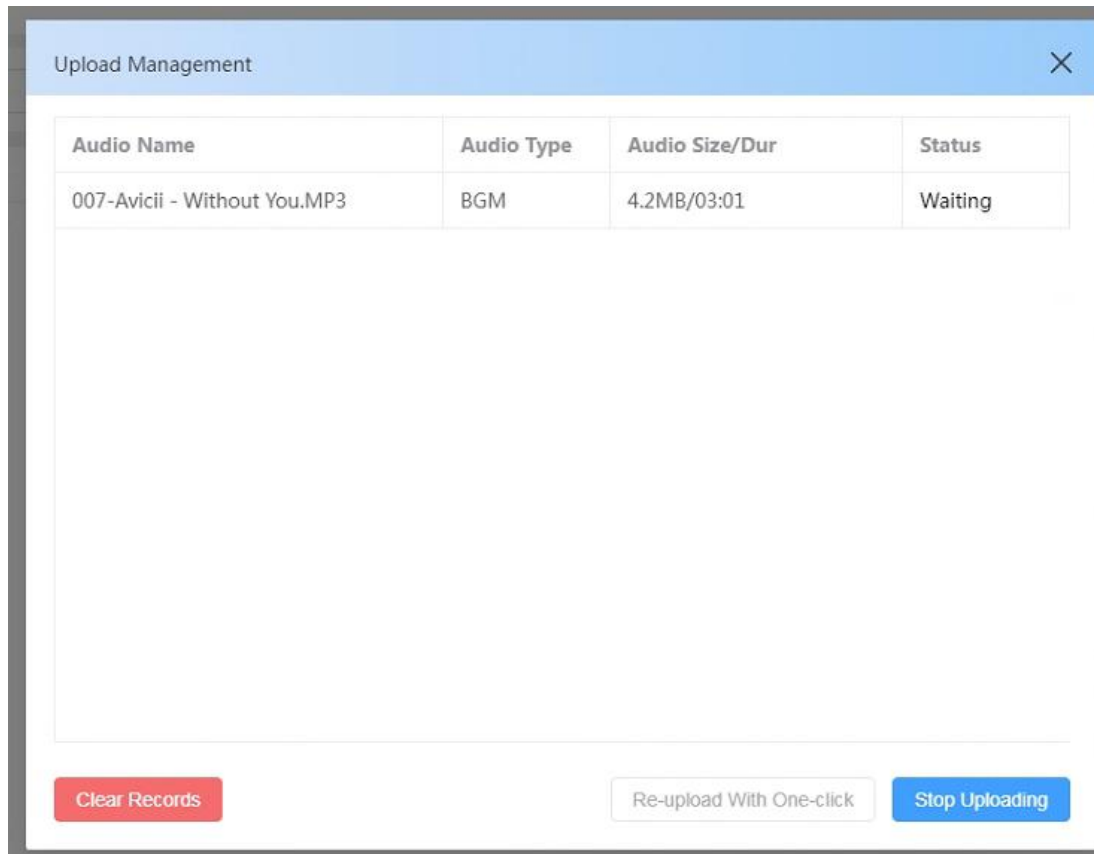


There are naming format requirements for uploaded audio files: file format: id_file name. The id is limited to three digits, such as 001, 010, etc. The id cannot be repeated under the same type. Allowed uploads at one time: 20 songs. Single file size limit: up to 64M. The size of the tone file does not exceed 5M.

Limit on total number of folder audio files: 200 for BGM, 10 for EVAC, 10 for Alert, 50 for tone.

Upload file formats supported by the system: mp3, WAV.

4. Click [Upload Management](#) to view the upload status of the audio file.



8.11.RM/FM operational process

1. Keys 0-9 for inputting zone number and the nixie tube displays the input zone number in real time. At this time, the nixie tube displays that the zone number flashes.
2. Confirmation button for confirming the input zone number. At this time, the digital tube displays that the zone number stops flashing. The selected zone can be viewed via Page up and down key.
3. Meanwhile, the zone indicator and the audio source selection status light present different states according to different situations:

Zone Status	Zone indicator	Audio source selection	Audio source selection status light
Idle	Off	None	Off
Playing	Green	Background music Line1 - Line5	Corresponding audio source lights green
		MIC Occupancy Extended line input	All source selection status lights do not light
	Red	Alert or EVAC or PTT	Red (not indicated if there is no corresponding audio source selection status light)

4. Repeat 1 and 2 to select the desired zones.
5. Press the All Zone key, the nixie tube displays "ALL", indicating that the whole zone is selected.
6. If you press the Cancel key during the zone selection process, the current input will be canceled and all the selected zones will be cleared.
7. After selecting the zone, you can perform the following operations:
 - (1) Through the audio source button, you can select the audio source of local and broadcast controller. Select the corresponding indicator light and it will be lit, and the nixie tube will display "Run" and flash 2S before resetting to "0";
 - (2) RM: Press the Speech key to initiate MIC. At this time, except for the Speech key, other keys are disabled until the Speech key is pressed again to close the MIC;
FM: Press the Speech key all the time to initiate MIC, other keys are disabled until the Speech key is released to close the MIC;
 - (3) Press the "Fault Reset/Shut off" key to close the selected zone, the nixie tube displays "OFF" and flashes 2S before resetting to "0";
8. This process ends. Press the numeric key to return to the first step.
9. When the zone is not selected, the audio source selection is invalid.

Note: Due to the continuous upgrading of the product, the content is subject to change without notice.

itC

Version 0.1