



AW-EVC500 Emergency Voice Evacuation Controller
Installation and Operation Manual



Version: 2.0

Date: January 9th,

Version Description

Version	Description	Date
V1.0	first version	2023.4.23

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1 Product Overview & Technical Parameters

1.1 Product Overview

AW-EVC500 emergency voice evacuation controller is suitable for communication and dispatch in case of fire or emergency in the building. When a fire occurs in the application scene, the emergency evacuation audio will be played, and the on-site personnel can make a speaker call through the controller microphone to schedule the on-site evacuation.

AW-EVC500 emergency voice evacuation controller adopts 3.2-inch LCD screen, silicone button operation, simple interaction operation, and the interactive page is simple and beautiful. The device has 10 zones of speaker output interfaces, 10 zones of fire detection input interfaces, 1 zone of AUX input interface, 1 CAN interface, 1 USB interface, 1 microphone, 2 zones of fault output interfaces, and 2 zones of fire alarm output interfaces.

1.2 Product Features

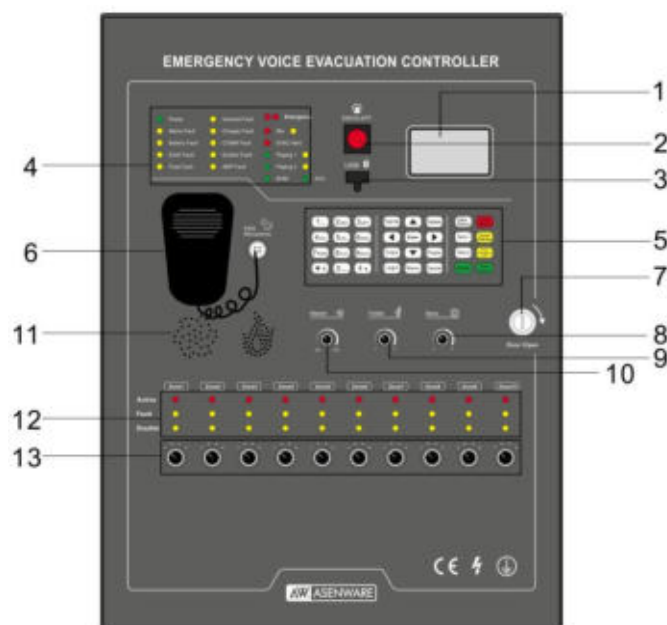
- 3.2-inch LCD screen operation
- Silicone buttons, beautiful appearance, good using experience and long service life
- 1 USB interface, which can be used to import and export data when configuring the controller information, or play the audio in the USB, and the internal TF card stores the alarm voice, which can be used when needed
- There are 10 zones of speaker output interfaces in total. There are 3 knobs on the main panel to adjust the volume, high tone and low tone of the speaker audio output respectively. In addition to the general adjustment knob, each voice section has a knob for 4-level volume range adjustment. Each speaker has a setting page that can be individually switched on and off
- There are 10 zones of fire detection input, which are activated one by one with the 10 zones of speaker zones when the fire alarm is triggered
- 1 CAN communication interface, which can be linked with other panel fire alarms, and the speaker zone that needs to be activated can be set on the setting page
- 1-zone background music AUX input interface, 1- zone USB MP3 audio source interface, 2- zone front audio source signal output interface, the front audio source output port can be used as an external speaker power amplifier audio source input for extended output
- 1 monitoring speaker, which can monitor the audio of the input audio source
- Support AC power supply and 24V battery power supply, can automatically identify and switch, AC power supply priority
- A red alarm button is used to speaker alarms in emergency, open all zones, and output emergency signals to the speakers in each zone

1.3 Technical Parameters

Rated input voltage	230VAC(±15%), 50Hz/60Hz	
Standby battery	Two 12V/12Ah lead-acid batteries in series	
Working environment	Relative humidity (<95%) at -20 ~40 °C, no condensation)	
Fuse	AC power input fuse	3.15A/250V 5*20mm, glass tube fuse slowly blow
	Battery output fuse	10A/250V 5*20mm, glass tube fuse, slowly blow
Max points in each fire zone	20 pcs (including MCPs)	
Amplifier max. total power	500W	
Frequency response	SD card and AUX input: 80HZ-10KHZ±3DB	
	MIC: 100HZ-10KHZ±3DB	

2 Product Appearance and Front Panel Description

2.1 Front panel description



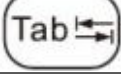
No.	Name
1	3.2-inch LCD screen
2	emergency evacuation button
3	USB interface
4	controller status light
5	silicone button
6	microphone
7	key lock
8	low tone adjustment knob
9	high tone adjustment knob
10	master volume adjustment knob
11	speaker hole
12	Speaker zone status light
13	4-level volume adjustment knob

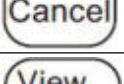
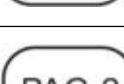
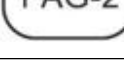
Figure 1. Front panel

2.2 Indicator light description

Indicator name	Color	Description
Power	Green	When the front panel is working, the LED lights up.
Mains Fault	Yellow	When there is a mains fault, the LED lights up.
Battery Fault	Yellow	When there is a battery fault, the LED lights up.
Earth Fault	Yellow	When there is a ground fault, the LED lights up.
Fuse Fault	Yellow	When there is a power module fuse fault, the LED lights up.
General Fault	Yellow	When there is a general fault, the LED lights up.
Charger Fault	Yellow	When there is a charger fault, the LED lights up.
COMM Fault	Yellow	When there is a communication fault between front panel and zone board, the LED lights up.
System Fault	Yellow	When there is a system fault, the LED lights up.
AMP Fault	Yellow	When there is an amplifier fault, the LED lights up.
Emergency	Red	When the emergency evacuation button is pressed, the LED lights up.
Mic	Red /yellow	When the MIC is activated, the LED lights up red, when it is faulty, the LED lights up yellow.
EVAC Alert	Red	When the emergency evacuation audio is playing, the LED lights up.
Paging1	Green/ yellow	When the remote Mic 1 is activated, the LED lights up green, when it is faulty, the LED lights up yellow.
Paging2	Green/ yellow	When the remote Mic 2 is activated, the LED lights up green, when it is faulty, the LED lights up yellow.
BGM	Green	When audio is playing, the LED lights up.
AUX	Green	When AUX has audio input, the LED light is on.
EMG/ALERT	Red	When the emergency evacuation button is pressed, the LED lights up.

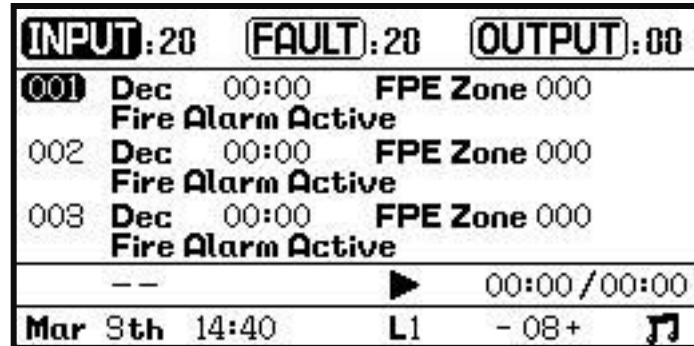
2.3 Button description

Button	Description
	Use when login and setting. When the * button is lit up, it is the English lowercase input mode, when the # button is lit up, it is the English uppercase input mode, when no button is lit up, it is the number input mode (default). If you want to switch the input mode, press * button to switch the number or English mode, and then press # button in the English mode to switch the English case mode.
	Move the cursor.
	Copies the entire content as it is typed on the keyboard.
	When typing on the keyboard, paste the content.
	Switch the cursor to the save button /return to the original position.

	Confirm/change the current selection.
	Switch to the login page.
	Switch to the main menu page.
	Delete in input mode.
	Exit the current page.
	Switch to home page.
	Switch to MP3 page.
	Switch to the speaker zone startup page.
	All voice zones are muted. (Press it again to cancel the mute mode when the voice zone switch is not operated).
	Confirm the current fault (the fault light no longer flashes)/ mute the local buzzer.
	Reset the controller/ controller test.
	Talk to Paging1.
	Talk to Paging2.

3 Operation Page Instructions

3.1 Home



Display information selection: There are 3 options: Input, Fault, Output.

When the cursor selects **Input**, the main information column displays the current activation status of the fire protection zone.

When the cursor selects **Fault**, the main information column displays the current fault information.

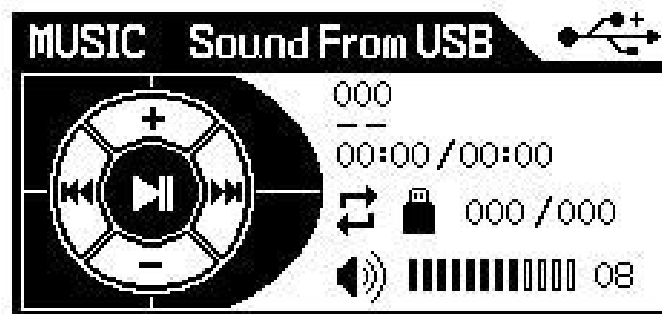
When the cursor selects **Output**, the main information column displays the current activation status of the voice zone and the countdown status of the activated fire zone.

* The number in the lower right corner of the option represents the number of information items for the current option.

Column 1: Display the serial number of the currently playing song such as 001, the name of the current song, the playing status, the playing time, and the total time of the current song.

Column 2: Display the current time, user level, current MP3 volume, and current audio source selection.

3.2 MP3



Enter the MP3 page: Press the BGM button  on the home page.

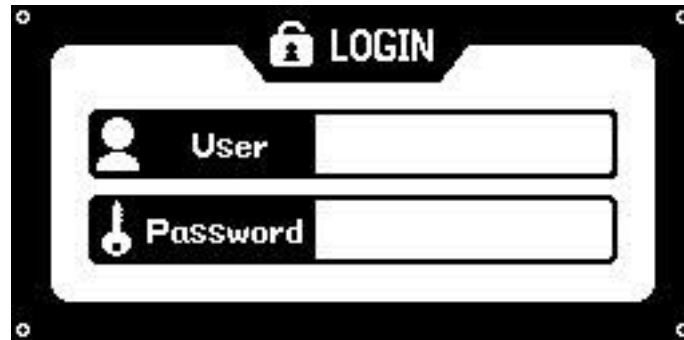
MP3 playback/pause: Press the Enter button  to switch.

MP3 volume adjustment: adjust the volume through the up and down buttons  , the maximum is 12 and the minimum is 0.

MP3 song switch: Use the left and right buttons   to switch songs.

Exit the MP3 page: Press the Cancel button  to exit.

3.3 LOGIN



Enter the LOGIN page: Press the Login button  on the home page.

Cursor switch: Switch the position of the cursor through the Tap button .

User switch: When the cursor is in the user column, press the Enter button  to switch users.

Password input: When the cursor is blinking in the password input box, press the number buttons to enter the password.

Delete wrong input: Press the Delete button  to delete wrong input.

Confirm login: Press the Enter button . After login, the user level on the home page will be updated to the latest status.

Exit the LOGIN page: Press the Cancel button  to exit.

3.4 Voice zone



Enter the Voice Zone page: Press the ZoneSelect button .

Cursor switch: Switch the cursor position by pressing the up, down, left, and right buttons    , and press the Tap button  to switch the cursor to Save or exit Save.

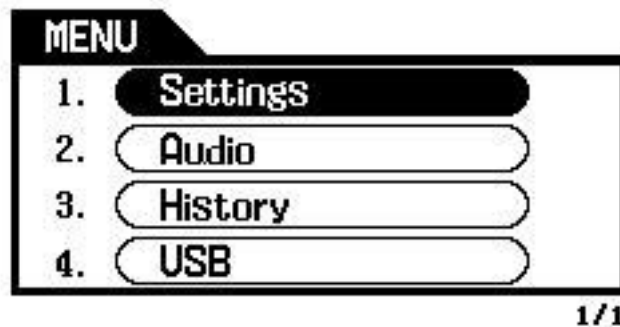
10-zone speaker switch setting table: Press the Enter button  to switch the speaker activation state.

Configuration saving: When the cursor is on Save, press the Enter button  to save the current settings.

Exit the Voice Zone page: Press the Cancel button  to exit.

Note: When All Voice Zones Active is checked, keep all voice zones activated.

3.5 Menu



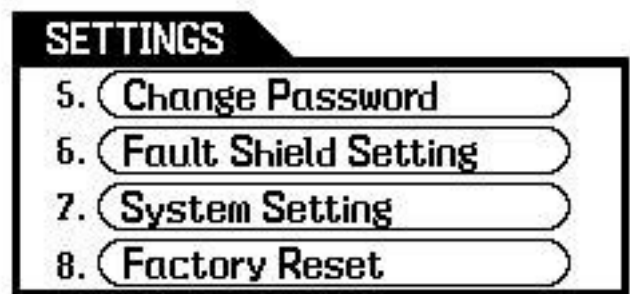
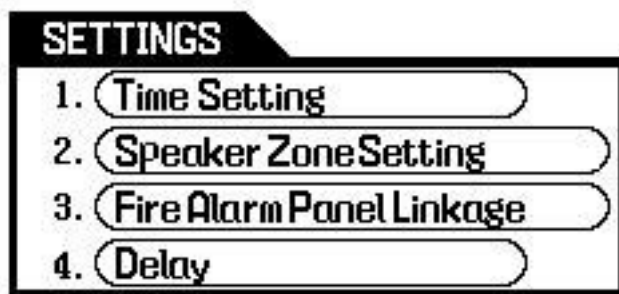
Enter the Menu page: Press the Menu button .

Cursor switch: Switch the cursor position by pressing the up and down buttons  .

Enter the next level menu: Press the Enter button  to enter the next -level menu at the current cursor position.

Exit the Menu page: Press the Cancel button  to exit.

3.6 Settings



Enter the Settings page: Enter the main menu.

Cursor switch: switch the cursor position by pressing the up and down buttons  .

Enter the next-level setting page: press the Enter button  to enter the lower-level setting at the current cursor position.

Exit the Settings page: Press the Cancel button  to exit.

3.7.1 Time setting



Enter the Time Setting page: Enter the setting menu.

Cursor switch: In non-input mode, use the up and down buttons   to switch the cursor position, and

press the Tap button  to switch the cursor to Save or exit Save.

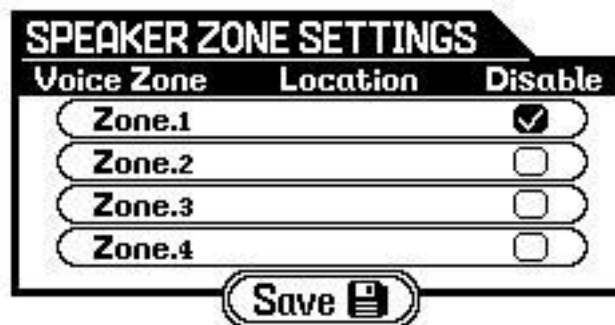
Time modification: Press the Enter button  to enter the input mode at the current cursor position, press the Enter button  again to exit the input mode at the current cursor position.

Input mode: In the input mode, the cursor is blinking, press the keyboard button to input, press the Delete button  to delete the wrong input information.

Configuration saving: When the cursor is on Save, press the Enter button  to save the current time setting.

Exit the Time Setting page: Press the Cancel button  to exit.

3.7.2 Speaker zone settings



Voice Zone	Location	Disable
Zone.1		☒
Zone.2		☐
Zone.3		☐
Zone.4		☐



Enter the Speaker Zone Settings page: Enter the setting menu.

Cursor switch: In the non-input state, the cursor position can be switched by pressing the up, down, left, and right buttons    . In the non-input state, press the Tap button  to switch the cursor to Save or exit Save.

Speaker Zone location information setting: When the cursor is at Location, press the Enter button  to enter the input mode of the current cursor position, and press the Enter button  again to exit the input mode of the current cursor position. (Location information will be used for all information display of this speaker zone).

Speaker zone disable setting: When the cursor is on Disable, enter the checkable state, and press the Enter button  to switch the disable state. (Speaker zone in disable state is equal to disconnection)

Configuration saving: When the cursor is on Save, press the Enter button  to save the current settings.

Exit the speaker zone settings page: Press the Cancel button  to exit.

3.7.3 Fire alarm panel linkage

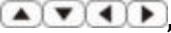
The 10-zone fire protection zone of the device corresponds to the 10-zone speaker zone one by one, no need to set. The linkage setting here is used for other fire alarm panels that can be linked with the Can interface. There are 120 groups of fire alarms in other fire alarm panels, corresponding to the 10-zone speakers of this device. When other panels such as: fire alarm panel 1 has a fire alarm, the speaker zones 1, 9, and 10 that are ticked and linked will be activated, and the speaker zones that are not ticked will not be activated.



Fire Zone	1	2	3	4	5	6	7	8	9	10
Zone.1	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
Zone.2	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Zone.3	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Zone.4	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

Save

Enter the Fire Alarm Panel Linkage page: Enter in the setting menu.

Cursor switch: You can switch the cursor position by pressing the up, down, left, and right buttons , and press the Tap button  to switch the cursor to Save or exit Save.

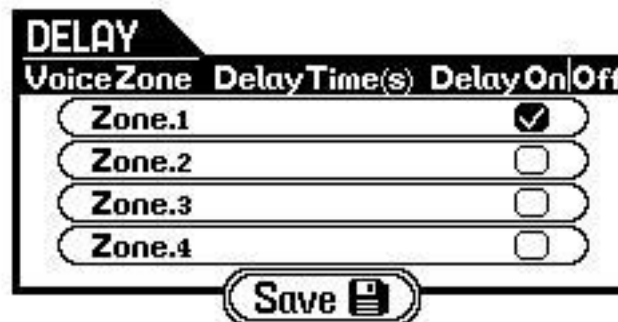
State switch: Press the Enter button  to switch the selected state of the speaker zone at the current cursor position.

Configuration saving: When the cursor is on Save, press the Enter button  to save the current settings.

Exit the Fire Alarm Panel Linkage page: Press the Cancel button  to exit.

3.7.4 Voice zone delay activation

Voice zone delay activation setting, the voice zone without delay will be activated directly when there is a fire alarm, and the voice zone with delay checked will need to wait for the countdown to complete before it will be activated. (When the countdown starts, you can see it in the Output on the homepage, press the Enter button  to skip the currently selected delay and activate it directly).



Voice Zone	Delay Time(s)	Delay On/Off
Zone.1		☒
Zone.2		☐
Zone.3		☐
Zone.4		☐

Save

Enter Voice Zone Delay Activation page: Enter in the Settings menu.

Cursor switch: In the non-input state, you can switch the cursor position by pressing the up, down, left, and right buttons , and press the Tap button  to switch the cursor to Save or exit Save.

Delay value adjustment: When the cursor is at the position of the delay value, press the Enter button  to enter the input mode, the cursor is blinking, press the keyboard button to input data, press the Delete button  to delete the wrong input information. Press the Enter button  again to exit the input mode at the current cursor position. (Delay range 600-0 seconds)

Delay switch: When the cursor is in the Delay On/Off column, press the Enter button  to switch the check status of the speaker zone at the current cursor position.

Configuration saving: When the cursor is on Save, press the Enter button  to save the current settings.

Exit the Voice Zone Delay Activation page: Press the Cancel button  to exit.

3.7.5 Change password

Only the account passwords of the current level and below can be changed.



CHANGE PASSWORD

User :

New Password :

Confirm Password :

Save 

Enter Change Password page: Enter in the settings menu.

Cursor switch: Press the Tap button  to switch the cursor.

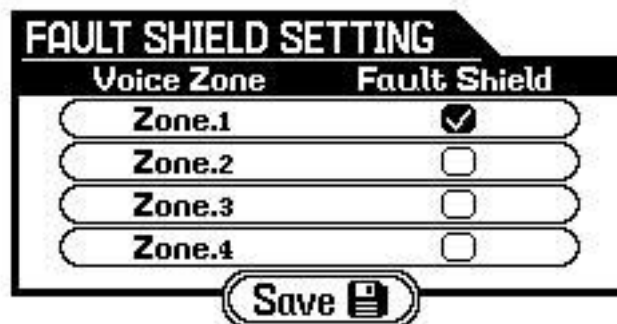
User selection: Select the account whose user password needs to be changed. When the cursor is on User, press the Enter button  to switch and select the account.

New password: When the cursor is in the password input column, press the keyboard button to input data, and press the Delete button  to delete the wrong input information.

Configuration saving: When the cursor is on Save, press the Enter button  to save the current settings.

Exit the Change Password page: Press the Cancel button  to exit.

3.7.6 Fault shield setting



FAULT SHIELD SETTING

Voice Zone	Fault Shield
Zone.1	☒
Zone.2	☐
Zone.3	☐
Zone.4	☐

Save 

Enter Fault Shield Setting page: Enter in the setting menu.

Cursor switch: In the non-input state, you can switch the cursor position by pressing the up and down buttons  , and press the Tap button  to switch the cursor to Save or exit Save.

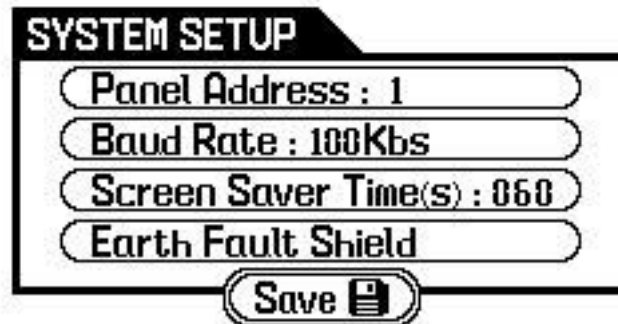
Fault shield switch: When the cursor is in the Fault Shield column, press the Enter button  to switch the check status of the speaker zone at the current cursor position. (For the checked speaker zone, the speaker fault information will not be detected)

Configuration saving: When the cursor is on Save, press the Enter button  to save the current settings.

Exit the broadcast delay setting page: Press the Cancel button  to exit.

3.7.7 System setup

You can set the panel address, baud rate and screen saver time. When connecting to other panels, the address of the panel to be connected must be unique, there must be no same addresses, and the baud rate must be the same.



Enter System Setup page: enter in the settings menu.

Cursor switch: In the non-input state, the cursor position can be switched by pressing the up and down buttons  . Press the Tap button  to switch the cursor to Save or exit Save.

Panel address: When the cursor is at the panel address, press the Enter button  to enter the input mode, the cursor is blinking, press the keyboard button to input data, press the Delete button  to delete the wrong input information. Press the Enter button  again to exit the input mode at the current cursor position. (address range 8-1)

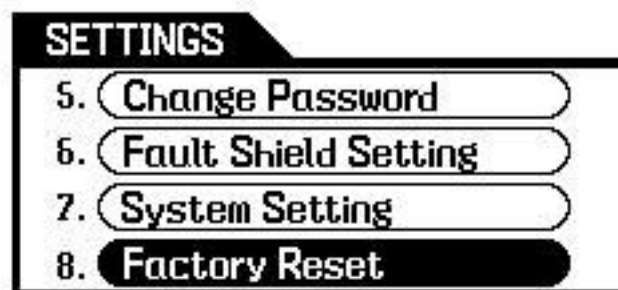
Baud rate setting: When the cursor is in the baud rate setting column, press the Enter button  to switch the baud rate.

Screen saver time: When the cursor is at the screen saver time, press the Enter button  to enter the input mode, the cursor is blinking, press the keyboard button to input data, press the Delete button  to delete the wrong input information. Press the Enter button  again to exit the input mode at the current cursor position. (Screen saver time range 30-250 seconds)

Configuration saving: When the cursor is on Save, press the Enter button  to save the current settings.

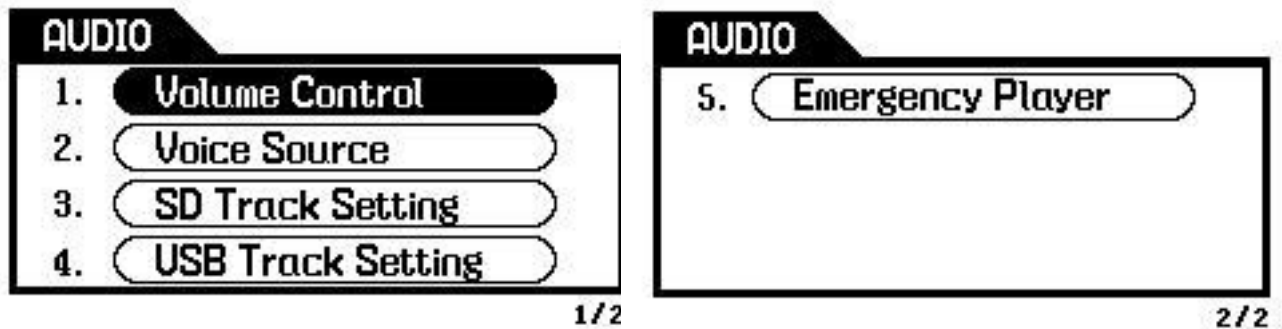
Exit the System Setup page: Press the Cancel button  to exit.

3.7.8 Factory reset



When the cursor is on the factory reset, press the Enter button  to restore the factory defaults.

3. 8 Audio menu



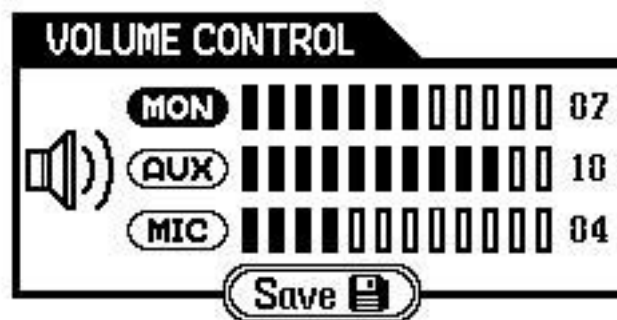
Enter Audio Menu page: Enter in the main menu.

Cursor switch: Switch the cursor position by pressing the up and down buttons .

Enter the next menu page: Press the Enter button  in Audio to enter the audio menu page at the current cursor position.

Audio menu page: Press the Cancel button  to exit.

3. 8.1 Volume control



Enter Volume control page: Enter in the Audio menu.

Volume control setting: Use the up, down, left, and right buttons  to switch the volume to be adjusted.

Exit the Volume control page: Press the Cancel button  to exit.

3.8.2 Select voice source



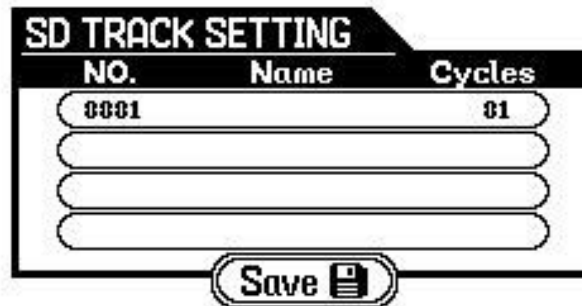
Enter Select Voice Source page: Enter in the audio menu.

Audio source setting: Use the up, down, left, and right buttons  to switch the audio source that needs to be played currently.

Exit the Select Voice Source page: Press the Cancel button  to exit.

3.8.3 SD track setting

The time of looping for emergency audio can be preset. The audio will be played in a preset loop when the emergency audio is triggered.



NO.	Name	Cycles
0001		01

Save 

Enter SD Track Setting page: Enter in the audio menu.

Cursor switch: In the non-input state, the cursor position can be switched by pressing the up, down, left, and right buttons    . Press the Tap button  to switch the cursor to Save or exit Save.

Song ID setting: the cursor is at the position where the song ID needs to be modified, press the Enter button  to enter the input mode, the cursor is blinking, press the keyboard button to input data, press the Delete button  to delete the wrong input information. Press the Enter button  again to exit the input mode at the current cursor position.

Loop time setting: the cursor is at the loop time setting position, press the Enter button  to enter the input mode, the cursor is blinking, press the keyboard button to input data, press the Delete button  to delete the wrong input information. Press the Enter button  again to exit the input mode at the current cursor position. (number of cycles range 0 - 99)

Configuration saving: When the cursor is on Save, press the Enter button  to save the current settings.

Exit the SD Track Setting page: Press the Cancel button  to exit.

3.8.4 USB track setting



NO.	Name
0001	

Save 

Enter USB Track Setting page: Enter in the audio menu.

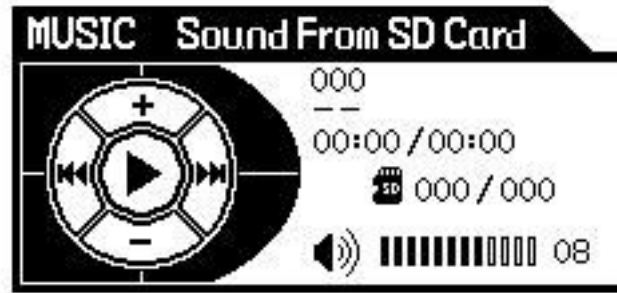
Cursor switch: In the non-input state, the cursor position can be switched by pressing the up and down buttons  . Press the Tap button  to switch the cursor to Save or exit Save.

Song ID setting: the cursor is at the position where the song ID needs to be modified, press the Enter button  to enter the input mode, the cursor is blinking, press the keyboard button to input data, press the Delete button  to delete the wrong input information. Press the Enter button  again to exit the input mode at the current cursor position.

Configuration saving: When the cursor is on Save, press the Enter button  to save the current settings.

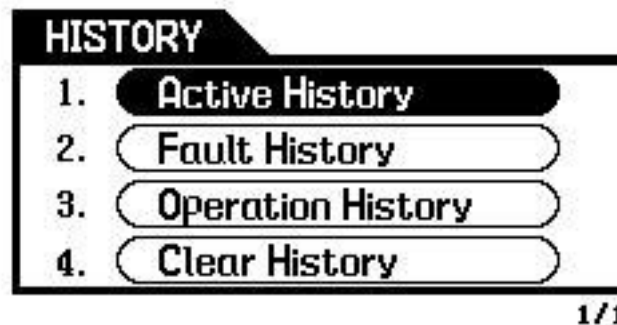
Exit the USB Track Setting page: Press the Cancel button  to exit.

3.8.5 Emergency play



In case of emergency, it is automatically triggered to jump to this page, and the emergency playback song can be switched by pressing the left and right buttons  , and the single song will be looped after switching.

3.9 History menu



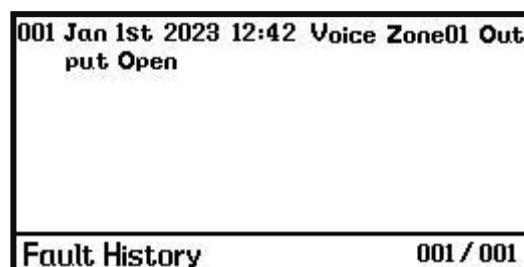
Enter History Menu page: Enter in the main menu.

Cursor switch: Switch the cursor position by pressing the up and down buttons  .

Enter the next menu page: Press the Enter button  in History to enter the history menu page at the current cursor position.

Exit History Menu page: Press the Cancel button  to exit.

3.9.1 Active history

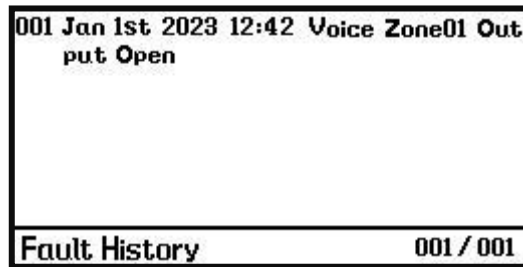


Enter Active History page: Enter in the history menu page.

Record switch: switch and activate the record display by pressing the up and down buttons   (the maximum number of records can be stored is 999, and each time the storage reaches the upper limit, the first 25 records will be automatically deleted).

Exit the Active History page: Press the Cancel button  to exit.

3.9.2 Fault history

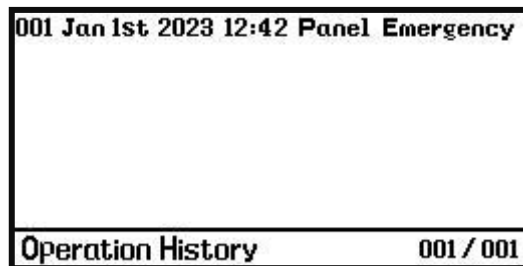


Enter Fault History page: Enter in the history menu page.

Record switch: Switch the fault record display by pressing the up and down buttons   (the maximum number of records can be stored is 999, and each time the storage reaches the upper limit, the first 25 records will be automatically deleted).

Exit the Fault History page: Press the Cancel button  to exit.

3.9.3 Operation history

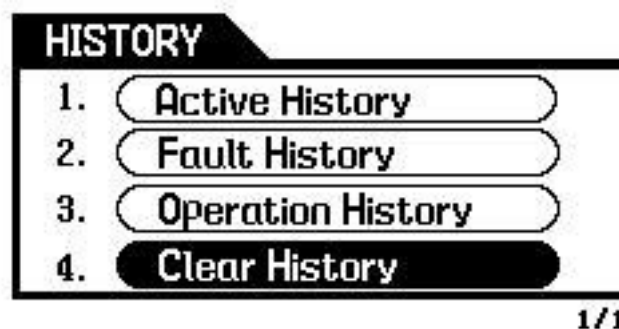


Enter Operation History page: Enter in the history menu page.

Record switch: Switch the fault record display by pressing the up and down buttons   (the maximum number of records can be stored is 999, and each time the storage reaches the upper limit, the first 25 records will be automatically deleted).

Exit the Operation History page: Press the Cancel button  to exit.

3.9.4 Clear history



Enter Clear History page: Enter in the history menu page.

Record switch: switch the operation record display by pressing the up and down buttons  .

Clear history: When the cursor is on Clear History, press Enter button  to clear all history information.

Exit: Press the Cancel button  to exit.

3.10 USB menu



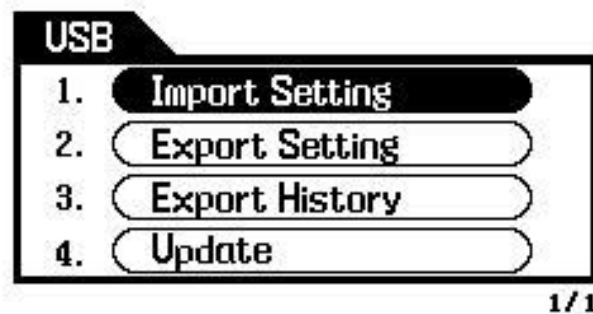
Enter USB Menu page: Enter on the main menu page.

Cursor switch: switch the cursor position by pressing the up and down buttons  .

Enter the USB operation menu: when the cursor is on USB, press the Enter button  to enter.

Exit: Press the Cancel button  to exit.

3.10.1 Import setting



Enter Import Setting page: Enter in the USB menu page.

Cursor switch: Switch by up and down buttons  .

Panel settings import: When the cursor is on Import Setting, press the Enter button  to import the files in the USB to the panel.

Exit: Press the Cancel button  to exit.

3.10.2 Export setting



Enter Export Setting page: Enter on the USB menu page.

Cursor switch: Switch by up and down buttons  .

Panel settings export: When the cursor is on Export Setting, press the Enter button  to export the panel configuration to the USB.

Exit: Press the Cancel button to exit.

3.10.3 Export history



Enter Export History page: Enter on the USB menu page.

Cursor switch: Switch by up and down buttons  .

History export: When the cursor is on Export History, press the Enter button  to export the history to the USB.

Exit: Press the Cancel button  to exit.

4 Operating Authority

L1: You can only see basic operations such as homepage information.

L2: Can see MP3 details page, monitor volume, history page operation, and all permissions of L1.

L3: Can see setting page, USB menu operation, and all permissions of L2.

Operation	Normal	Admin	Super-Admin
Home view	✓	✓	✓
MP3 page	✗	✓	✓
Login page	✓	✓	✓
Voice zone page	✗	✓	✓
Menu page	✓	✓	✓
Settings page	✗	✓	✓
Time setting page	✗	✗	✓
Speaker zone setting page	✗	✗	✓
Fire alarm panel linkage page	✗	✗	✓
Voice zone delay activation page	✗	✗	✓
Change password page	✗	✗	✓
Fault shield setting page	✗	✗	✓
System setup page	✗	✗	✓
Factory reset page	✗	✗	✗
Audio menu page	✓	✓	✓
Volume control page	✗	✗	✓
SD track setting page	✗	✗	✓
USB track setting page	✗	✗	✓
History menu page	✓	✓	✓
Active history page	✓	✓	✓
Fault history page	✓	✓	✓

Operation history page	✓	✓	✓
Clear history page	✗	✗	✗
USB menu page	✗	✗	✓
Import setting page	✗	✗	✓
Export setting page	✗	✗	✓
Export history page	✗	✗	✓

5 Installation Instructions

5.1 Installation Notes

- The panel should be installed on a dry and flat wall, keeping sight height and horizontal position, so as to ensure the balance of the panel.
- The panel should not be installed in a closed environment or near a heat source.
- Make sure the installation environment is dry, free of debris and extreme temperature.
- When connecting the power wires, please make sure that the main power supply has been cut off, and do not operate with power on.

5.2 Interface Description

- CAN
To connect to the CAN interface of other fire panels, a 120R resistor needs to be connected in parallel.
- AUX IN
AUX audio input interface, which can be connected to an external front audio output.
Input sensitivity: 360MV±50mV
- PER OUT
PER audio output interface.
- Fire Relay
Fire alarm output interface, when there is a fire alarm, the NO port is closed, and the NC port is disconnected.
- Fault Relay
Fault output interface, when there is a fault, the NO port is closed, and the NC port is disconnected.
- FireTrigger Inputs 1-10 Zones
The device has 10 fire alarm interfaces.
- Tenth Zone Output
10- zone speaker output interface, used for external constant voltage speakers, the total power of external voltage speakers is 500W.

6 Maintenance

- 6.1 The control panel should be kept dry. If the control panel becomes dirty, wipe it with a dry cloth to ensure that no water enters the case.
- 6.2 System testing can only be carried out by trained personnel, and appropriate isolation measures must be taken to avoid accidental losses.
- 6.3 Before the test starts, please notify all members in the area.
- 6.4 Be careful when removing cables.

6.5 The battery should be checked regularly.

7 Installation Information

Installer: _____ Company: _____

Tel: _____ Add: _____

Date: _____ Serial No.: _____