



Public Address System

Digital Audio Matrix

M-808



User's Manual

Welcome choosing our Public Address System! Please read the Instructions carefully before operating this device.

LY International Electronics Co., Ltd

<http://www.lyintlcorp.com/>

About the Instructions

The Instructions is used at the date when the digital audio matrix M-808 device is developed. It contains system introduction, operation attentions, system connection instructions, product instructions and other contents of the digital audio matrix M-808 device. The user shall read the Instructions carefully and operate the device following the indications in the Instructions before the installation and operation of the device.



Any symbol marked on the rear panel of this machine must be noted. The operations must be performed according to the instructions of these symbols.

Please keep the Instructions for future reference!

M-808 - V0.3

Facture 2017-07-26



WARNING

Be sure to observe the following cautions to prevent the damage to the users and others, and the damage to the equipment or property!



This symbol means a “prohibition”.

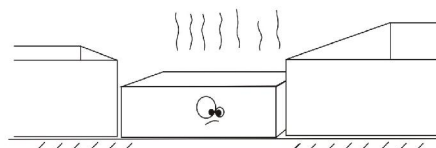


This symbol means a “must”.

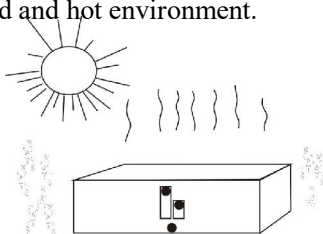
■ Check the damage condition of power cord. Do not pulling the power cord to unplug the plug, unplug the plug directly; otherwise it may cause electric shock, short circuit or fire.



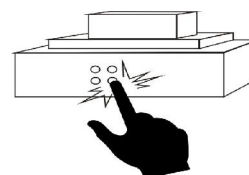
■ Do not block the air vent during the operation. All air vents must be unblocked to avoid the overheating.



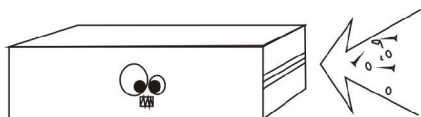
■ Do not expose the device to dust, vibration, extreme cold and hot environment.



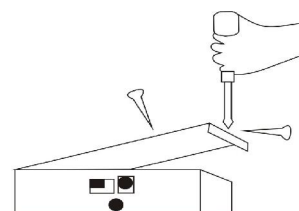
■ Do not place heavy objects on the device. Do not impose an excessive force when operating the switch, buttons or connecting the external audio equipment.



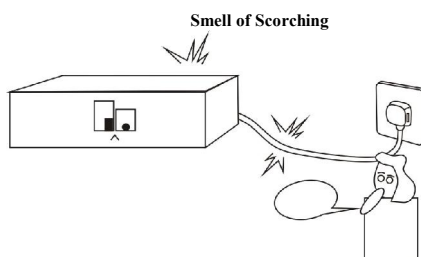
■ Avoid any foreign matter (paper, metal, etc.) from entering the device through gap or opening. In such a case, please power off this device immediately.



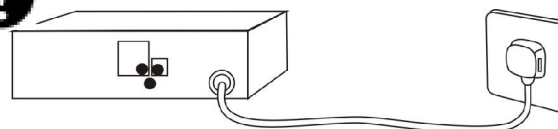
■ Do not attempt to detach the internal parts of this device or remold it by any way.



■ Please unplug the power plug immediately to avoid the electric shock, fire or other accident and professionals shall be invited for maintenance of the device in case of any sudden sound interruption, any abnormal smell or smoke during the running of the machine.



■ Be sure to unplug the AC power cord or turn off the wall outlet to achieve zero energy consumption when this device will not be operated for a long time.



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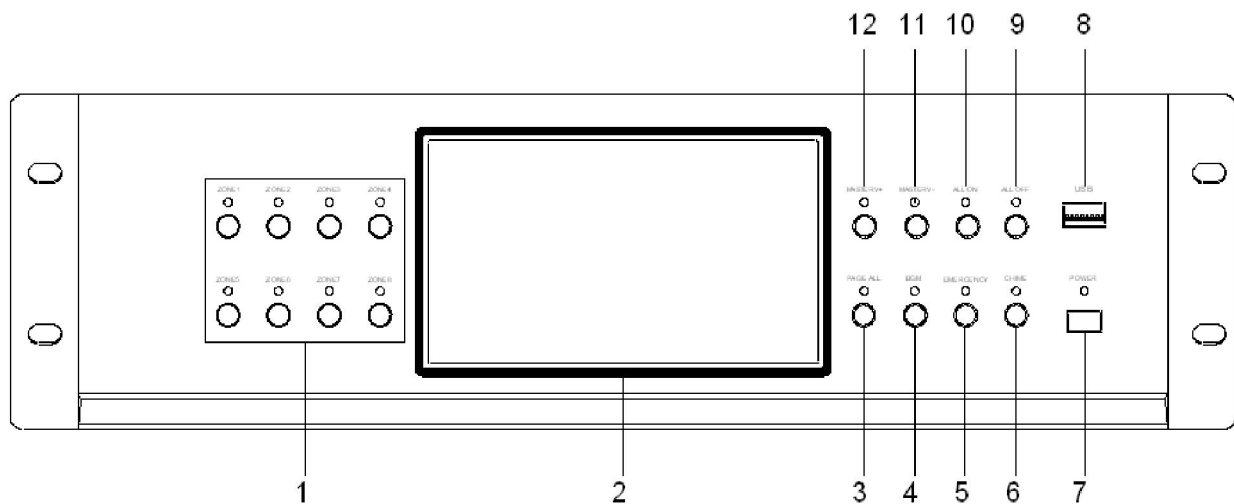
A. Product Description

1.1 Performance

- 7"with touch capacitive color screen, embedded operating system;
- Built-in high performance DSP, 10M/100M/1000M Ethernet interface;
- Integrated Digital Audio Matrix, display, intelligent timing control, zones control and other functions in PA system;
- 8-channel zones output independent control and each channel with individual icon equalizer and individual volume control;
- Each channel can be linked independently with control panel and remote volume control of sound source with voice, wiring and MP3 player;
- 8-channel normal sound source balanced input and each channel with individual icon equalizer and individual volume control;
- 2-channel local microphone input(with phantom power options) and each channel with individual icon equalizer and individual volume control;
- 1-channel MP3 display(built-in program or extrapolated U disk) with individual icon equalizer and individual volume control;
- 1-channel DM with individual icon equalizer and individual volume control;
- 1-channel fixed telephone input(with authority management), only one line can be operated in the whole area and with individual volume control;
- 1-channel chime with individual volume control;
- 1-channel voice alarm(a key alarm), can be replaced alarm contents as needed;
- 4-channel remote paging microphone, parallel paging with priority control and individual icon equalizer and individual volume control;
- 1-channel fire emergency analog signal input;
- 8-channel independent zones fire emergency trigger input(short circuit signal), 1-channel whole area fire emergency trigger input(short circuit signal), 1-channel fire linkage input(short circuit signal);
- Support PC/Android LAN remote control;
- zones and sound source physical shortcuts, easy to use;
- Built-in zones monitoring;
- Built-in 8G storage and maximum support 32G;
- Support AC220(or 110V) & 24V DC power supply.

B. Appearance Description

2.1 Description of Front Panel



1. 1-8 zones button and indicator

2. Display/Touch Screen

The display shows dynamically all information of the system and it is also the touch screen for operation.

3. Page all button and indicator

4. Background source button and indicator

5. Full emergency button and indicator

It can send the warning signals to all zones simultaneously by pressing the full-warning button of the system, and meanwhile, the indicator light is ON.

6. Chime and indicator

7. Power

8. USB

Use to connect the U disk with MPS programs, mobile hard disk and other memory devices. It can directly play the songs of the U disk and copy the programs for built-in MP3 player.

9. All-page close and indicator

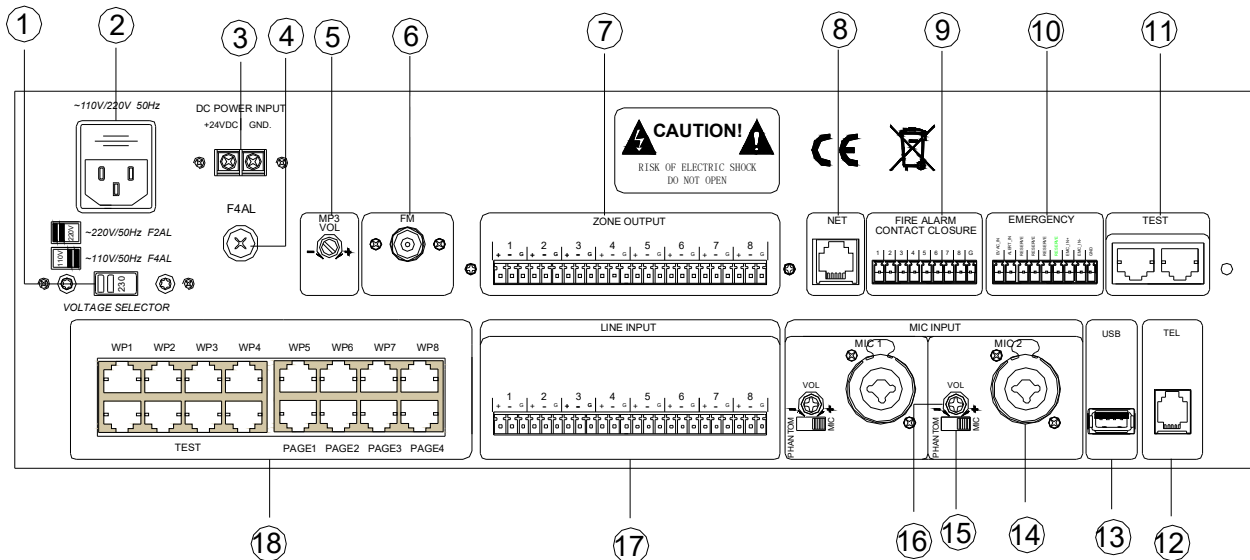
10. All-page open and indicator

11. Volume control -

12. It controls the volume of zones. Press this button to turn down the volume

It controls the volume of zones. Press this button to turn up the volume

2.2 Description of Rear Panel



① AC 110V/220V Selector Switch

Use to select the operating voltage.

② AC Power Input Socket

Plug the AC power cord into this socket.

③ DC 24V connection terminal

Externally connect with DC 24V power supply.

④ DC 24V Fuse

Use for the fixed DC power supply. If it is fused, please replace it with the fuse of the same specification. A continuous fusing indicates that there are some faults.

⑤ MP3 volume control knob

⑥ FM Antenna Interface

⑦ zones Output

Connect with the power amplifier.

⑧ Network Interface

It is used to connect the LAN, through which the remote control of the system is performed.

⑨ Alarm Signal Input

Input the signals from the fire control center.

⑩ Alarm Signal Input

⑪ Testing Interface

It is used for testing.

⑫ Telephone Interface

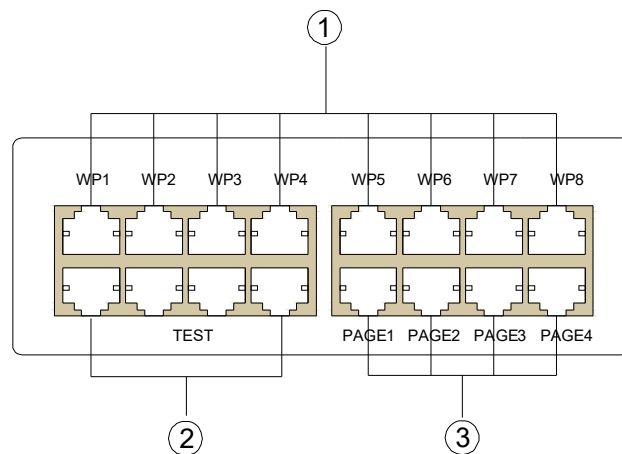
It is used to connect the telecom signals to this machine.

⑬ USB

It is used to update the applications.

⑭ MIC2 Input Interface**⑮ +48V Phantom Power Control Switch (MIC1-MIC2)**

MIC1 and MIC2 are individually controlled. Turn left the switch to open this power source when the +48V phantom power supply microphone is used.

⑯ Volume Control Knob**⑰ Line Input Interface****⑱ As shown below:****① Control panel interface**

Connect 8 sets M-808C/M-808S control panels.

② Extension interface**③ Connect 4 M-808R paging microphones**

C. Installation Instruction

3.1 Installation in phone

Double-click to install the APP, according to the instructions to install.

3.2 Installation in PC

Click the software to open the software page.

D. Operating Guide

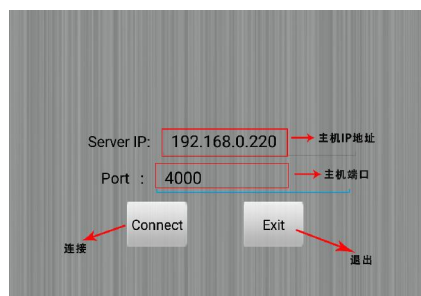
4.1 Linkage Instruction

4.1.1 Phone

1. First connect the M-808 host device;
2. Connect the host device to LAN;
3. Connect the desired Android phone to the WIFI in the LAN where the host device is connected and set the static IP address of the phone. The static IP address should be in the same network segment with the IP address of the host device (e.g the host device IP is: 192.168.8.220, the static IP address of the phone should be :192.168.8.100.):As shown below:

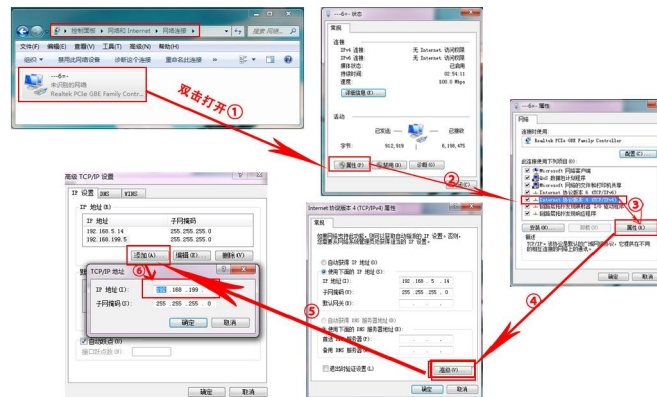


4. Enter the software connection interface and input the host's IP address and port number. As shown below:

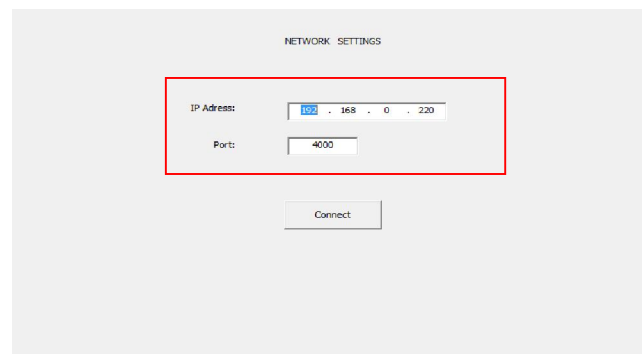


4.1.2 PC

1. First connect the M-808 host device;
2. Connect the host device and PC to LAN;
3. Set the IP address of PC and host device in the same network segment (e.g the host device IP is:192.168.0.220, the PC IP should be 192.168.0.10.): As shown below:



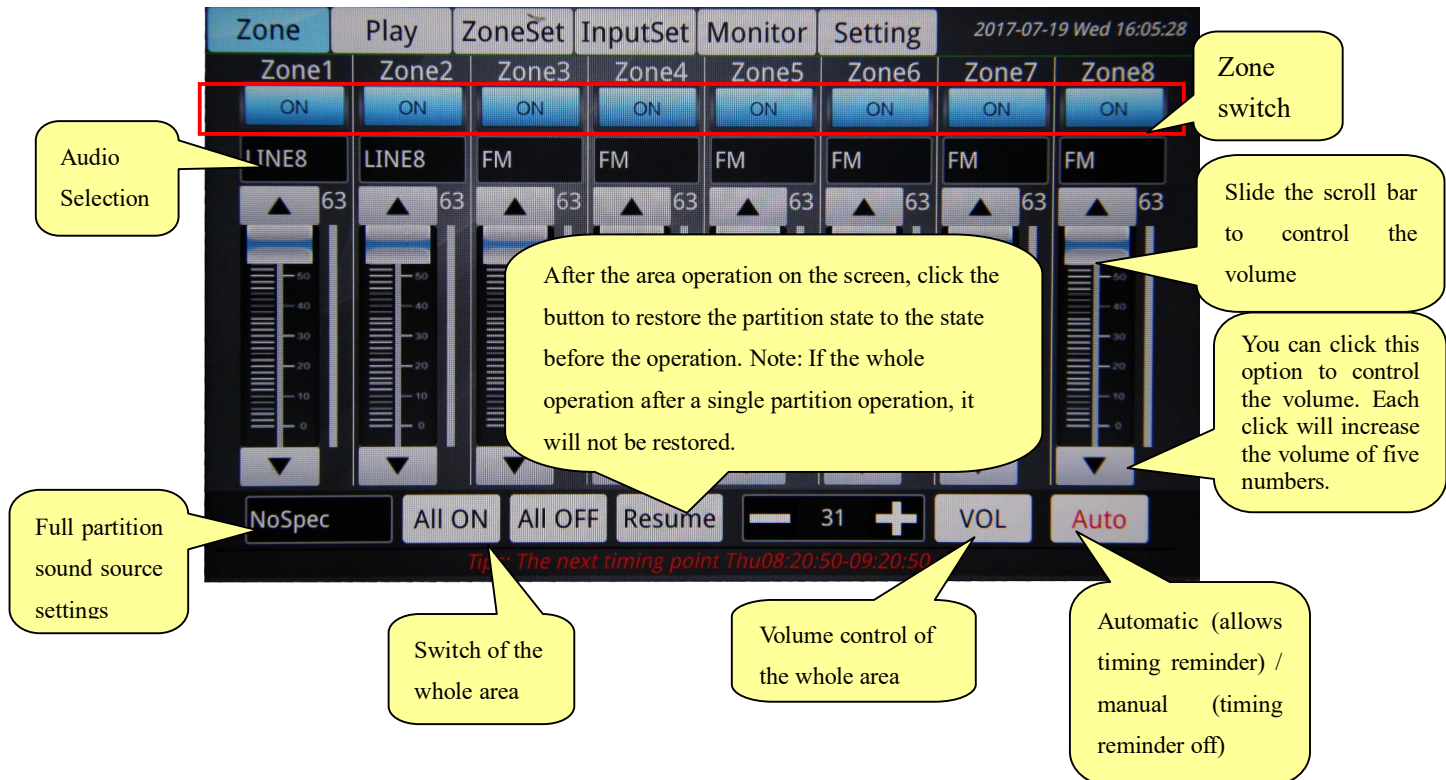
4. Enter the software connection interface and input the host's IP address and port number. As shown below:



4.2 Interface Instruction

4.2.1 Description of Main Interface

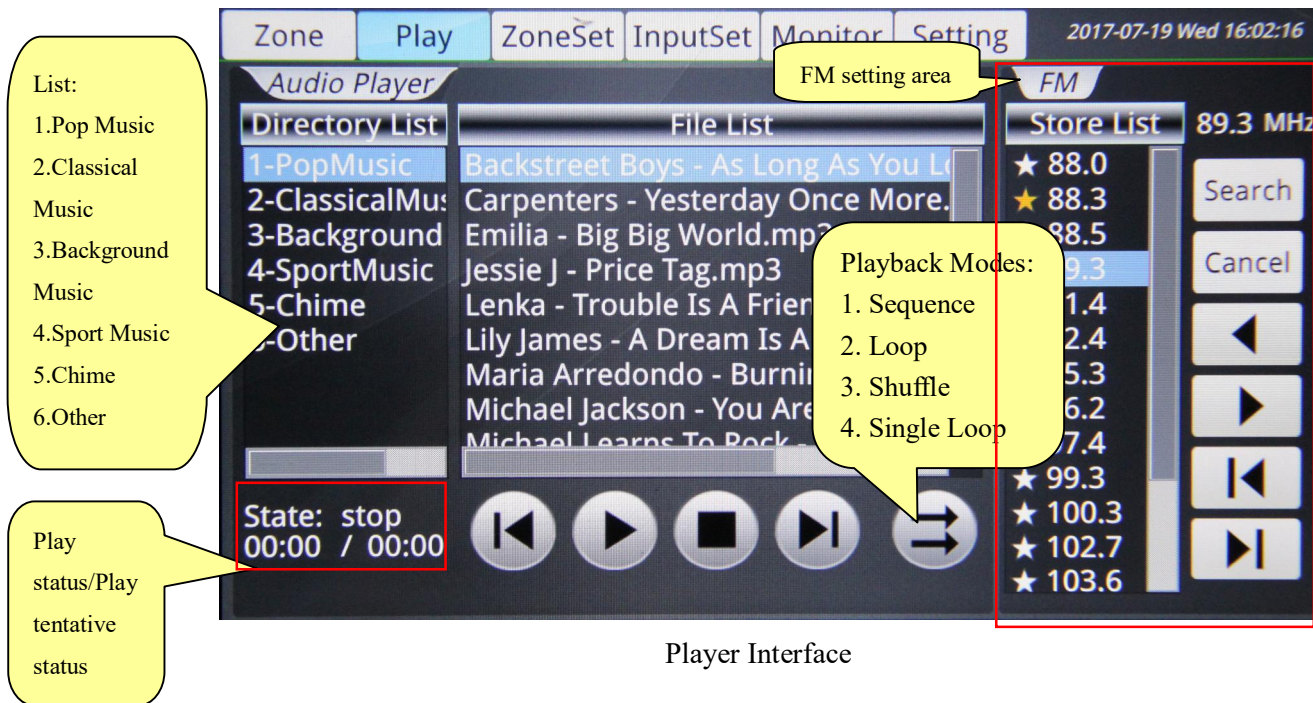
After turning on the power switch, the device is started and it enters the following main interface. In this interface, various operations as shown in the following chart are available.



Main Interface Chart

(1) Player Interface

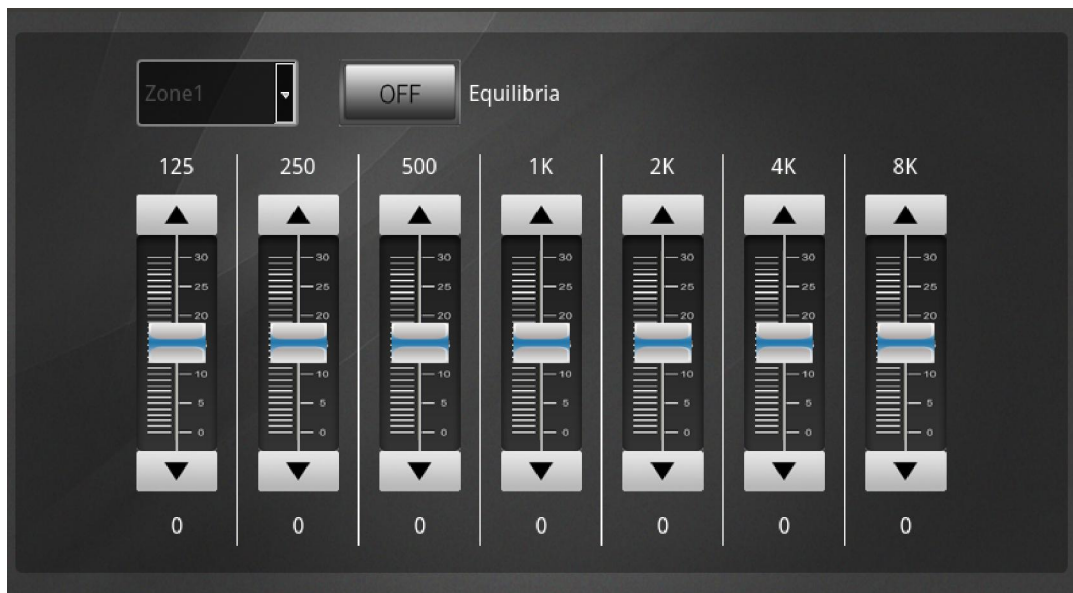
In the following interface, the list box on the left is the directory list of built-in player and the list of songs under this directory. Through the operating buttons of MP3, the operations of Play, Stop, Previous Song, Next Song and Playback modes can be available. On the right of the interface, it is the audio interface. It can achieve the multi-channel operations of automatically searching and playing the channel, playing the previous channel/next channel, playing the specified channel, collecting the channels, etc.



Player Interface

(2) Zone Settings

As shown below, each zone can be equalized. During the operation, it is necessary to open the switch of equalizer to adjust the equilibrium.



Interface of Zone Settings

(3) Sound Source Settings

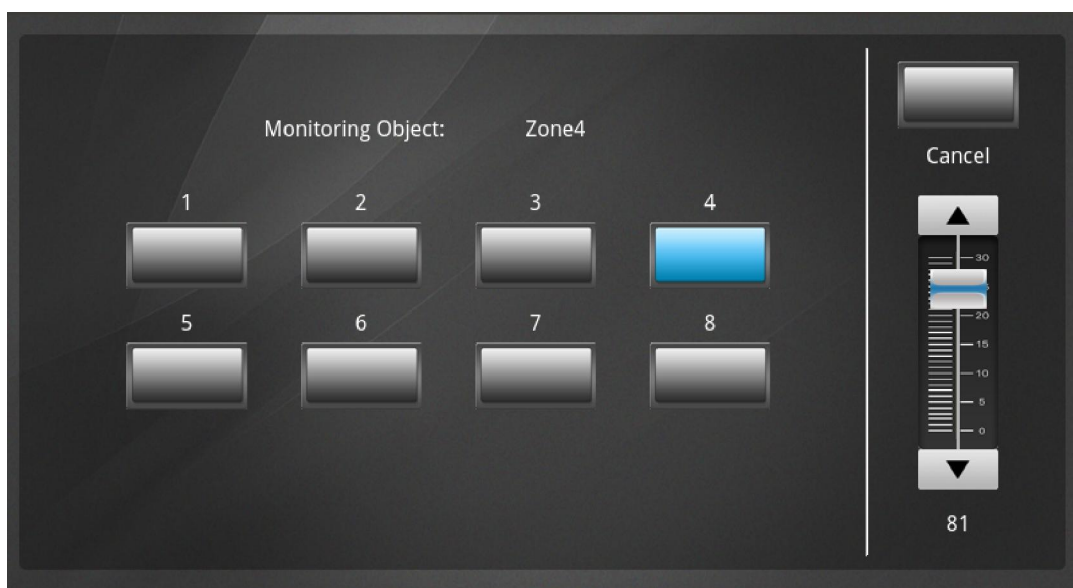
As shown below, each sound source can be equalized and the volume can be set. During the operation, it is necessary to open the switch of equalizer to adjust the equilibrium.



Interface of Sound Source Settings

(4) Monitoring Interface

As shown below, only one zone can be monitored each time. When the background color of zone button becomes blue, it indicates this zone is monitored. When this zone will not be monitored, it can be canceled by clicking the key “Cancel” on the right of this interface. The volume size of the monitoring object can also be controlled.

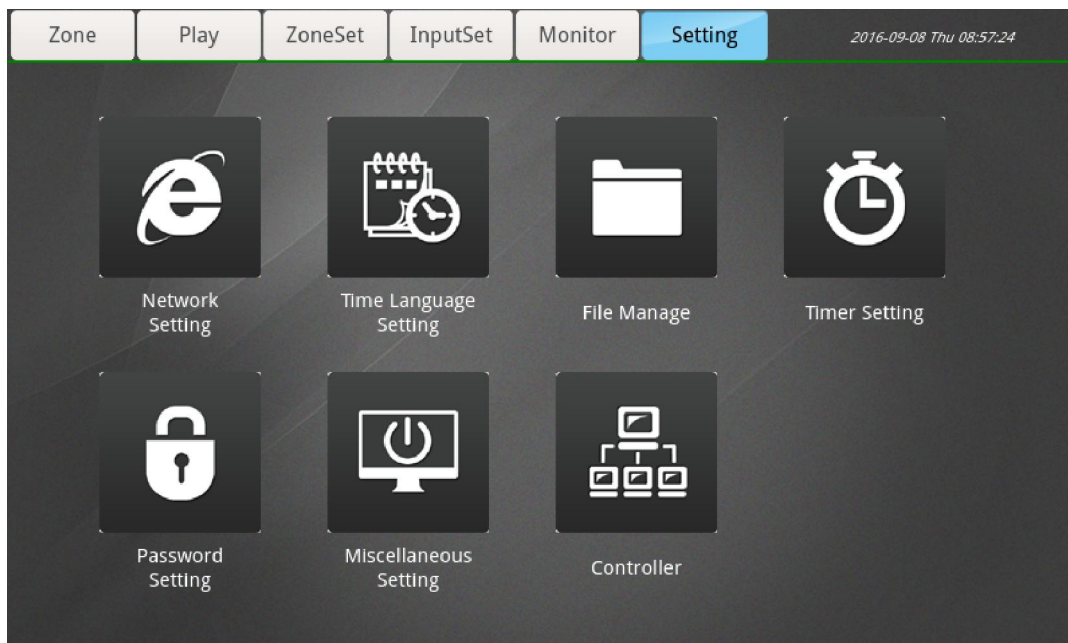


Monitoring Interface

(5) Setting Interface

You can set up all information of the entire system in this interface. You can set up all items in this interface before you perform the operations like Play in the main interface, and various items of the system can then be

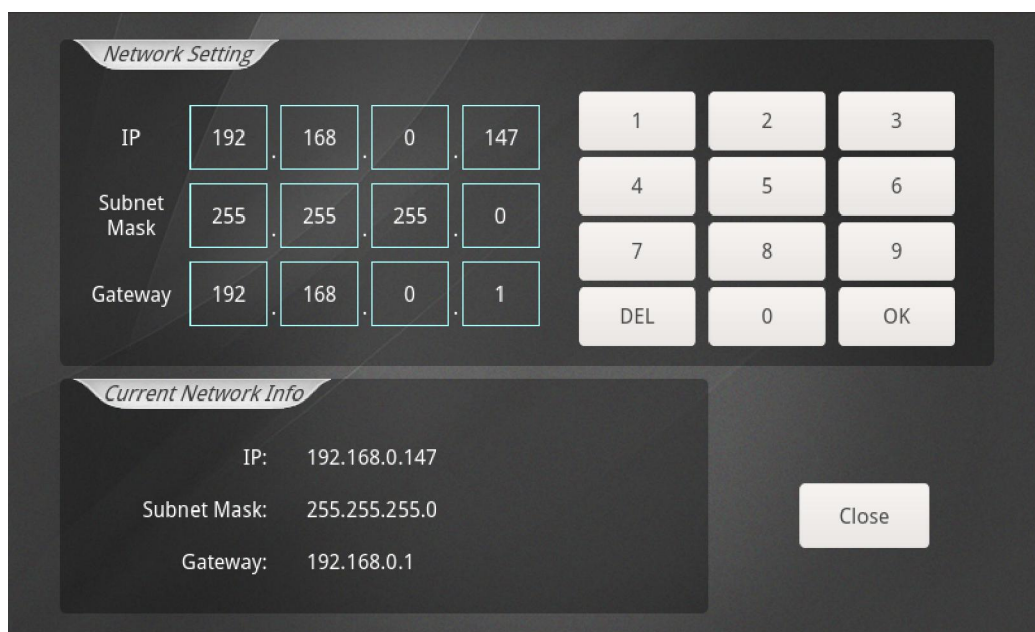
accurately executed and operated.



Setting Interface

1) Network Setting

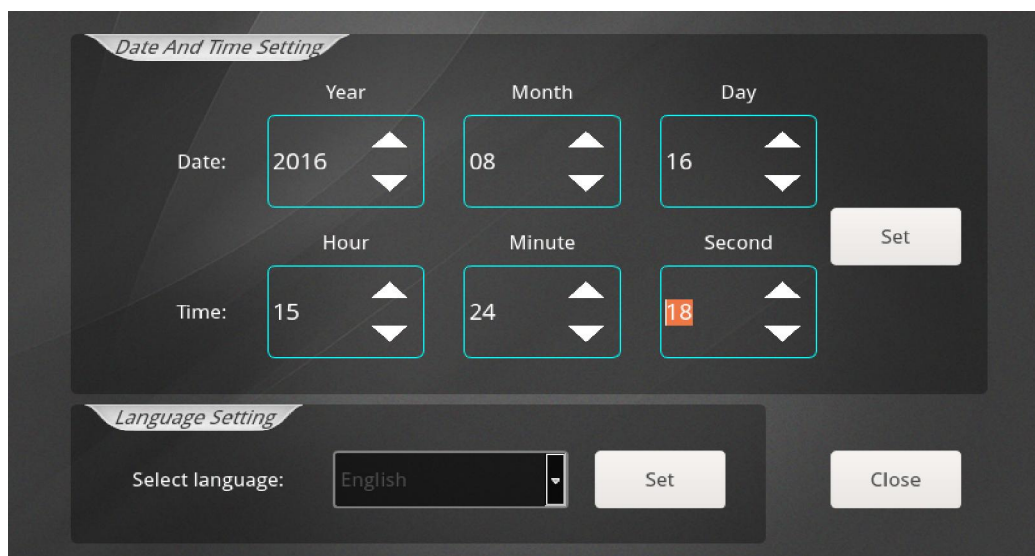
Click the button “Network Setting” to enter the IP address setting interface. As shown below, there are IP address setting and the current IP address information of this machine in this interface. After the IP address is set up, click the button OK. The newly configured IP address cannot be effective unless the device is re-started.



Interface of Network Setting

2) Date and Time Setting

Please align the current clock when setting the system time, which relates to the implementation punctuality of timing point. The timing point can be accurate to seconds. So, when re-setting the system time, please pay attention to the setting of seconds.



Interface of Date and Time Setting

3) File Management

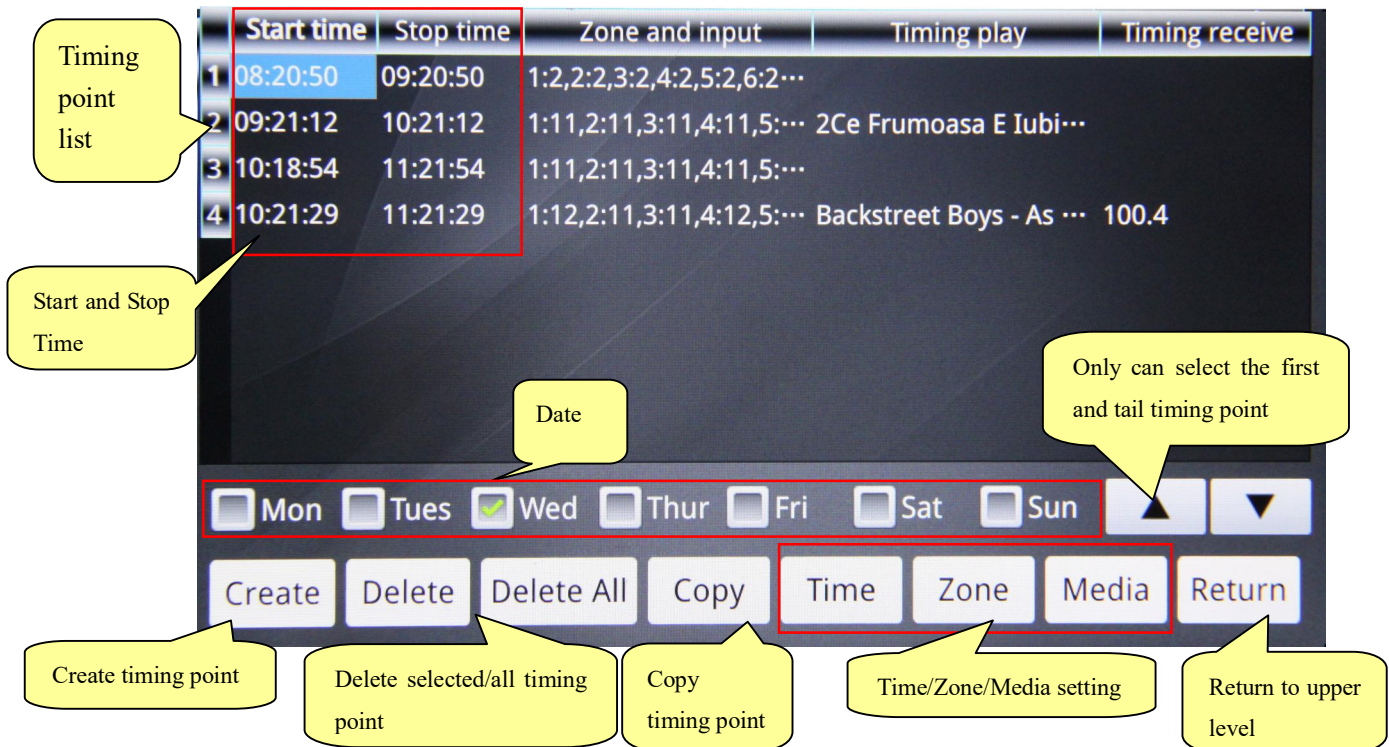
In this setting, you can copy the sound source of this machine to U disk or copy it from U disk to this machine. During the operation, you shall select the sound source and direction to be copied,(or selected all) and then click the button “Copy”.



Interface of File Management

4) Timing Point Setting

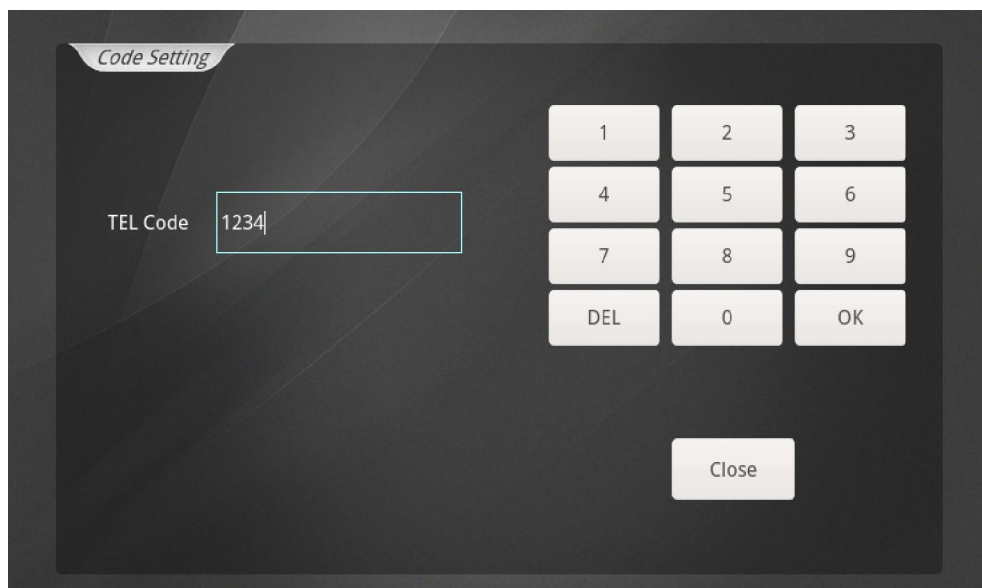
Create the timing point: select the button “Create” to set up the Start Time and Stop Time, select the Day of Week, Zone and Sound Source, and then click the button “Save” to add the timing point. And the created timing point can be deleted, edit, zones setting, ring and other operations. As shown below:



Interface of Timing Setting

5) Password Setting

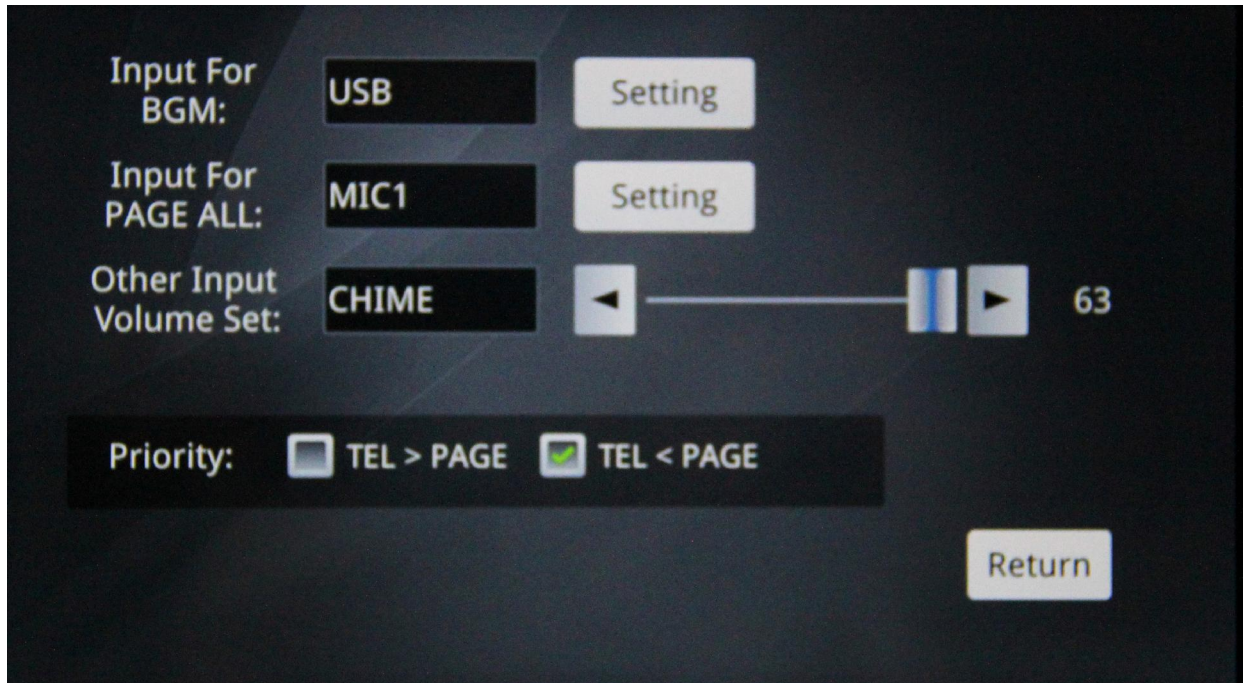
The password setting is mainly for the phone calls. When there is a phone call access, it can be answered only by entering the password. The password can only be set up to four numbers.



Interface of Code Setting

6) Other Settings

As shown below, you can set up four setting items, namely, input for BGM (background music), input for PAGE ALL, other input volume set and priority.



Interface of Other Settings

7) Control Terminal

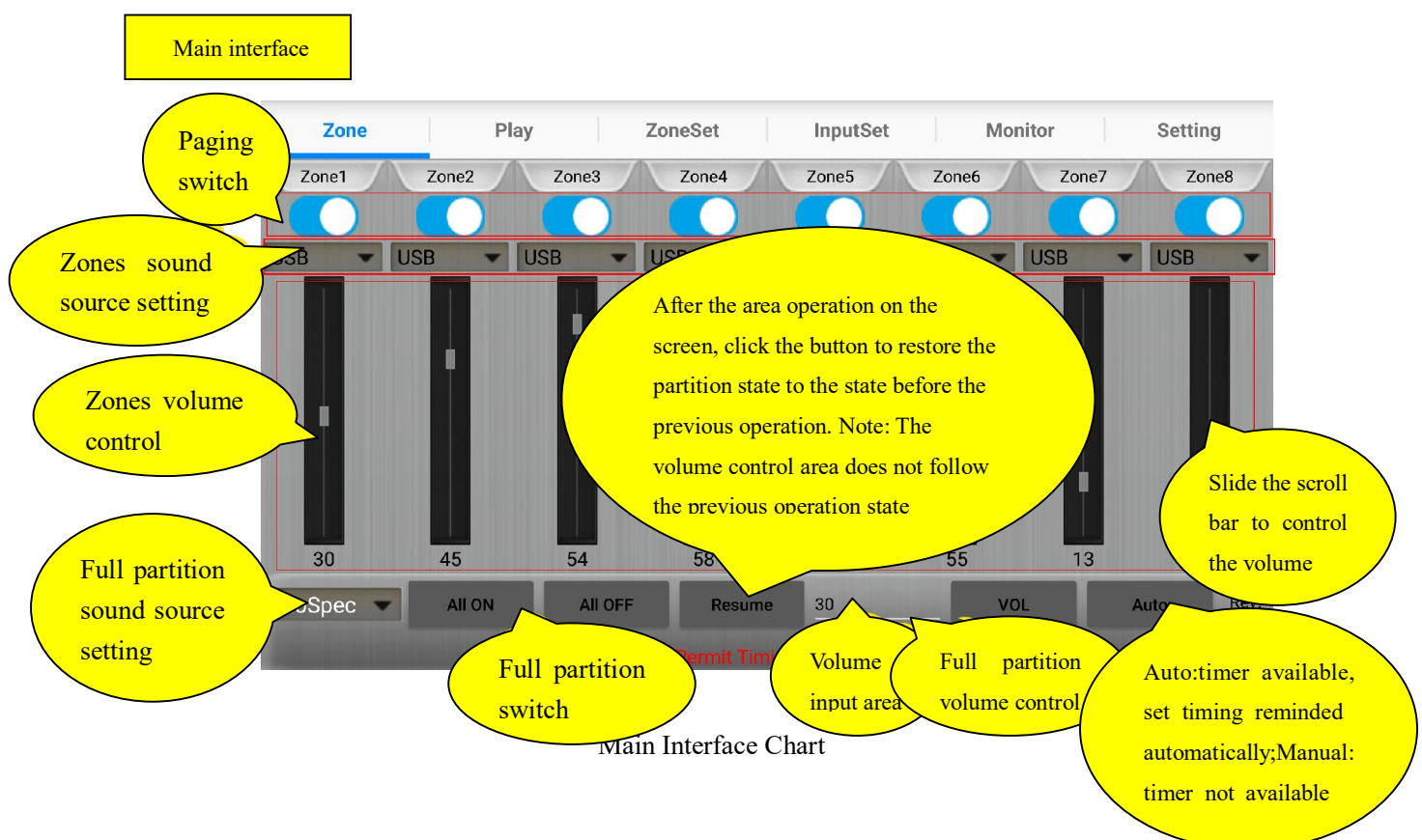
In this interface, you can view the ID number, IP address and controlled zones and other information of the control terminal in the system.



Interface of Control Terminal

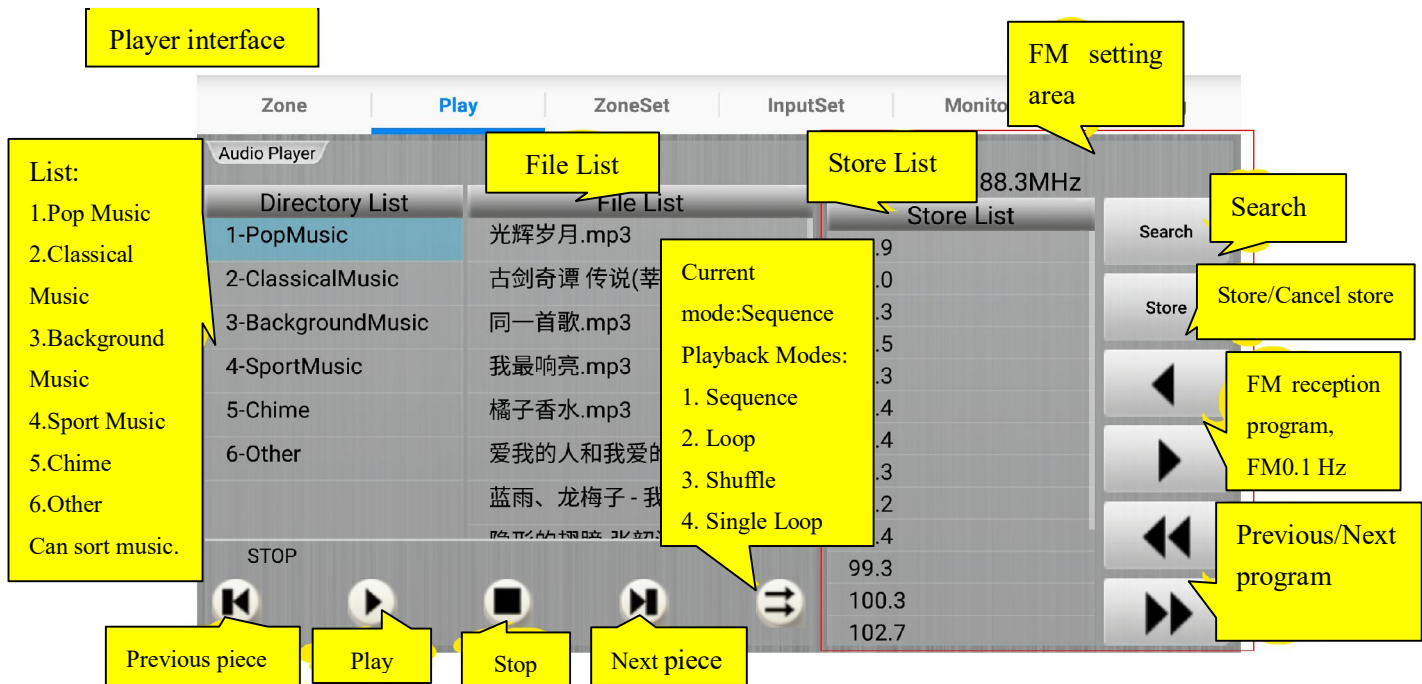
4.2.2 Description of Phone interface

According to the operation of the phone terminal connection instructions, enter the main surface when the connection is successful, and can operate various operations in the interface which is as shown below.



(1) Player Interface

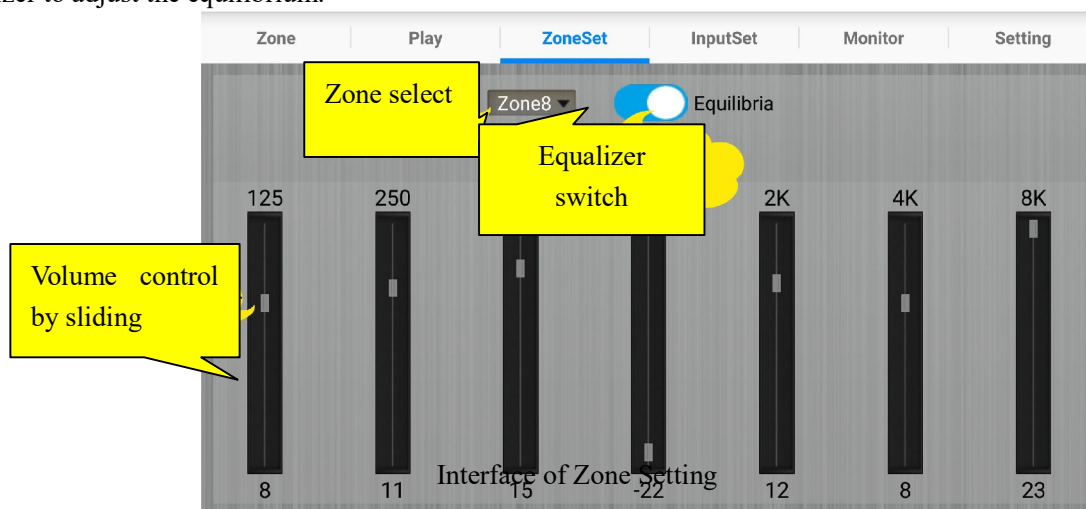
In the following interface, you can operate basic operations like sorting and playing the songs. On the right of the interface, it is the audio interface. It can achieve the multi-channel operations of automatically searching the frequency, playing the audio, playing the previous channel/next channel, playing the specified channel, collecting the channels, etc.



Player interface

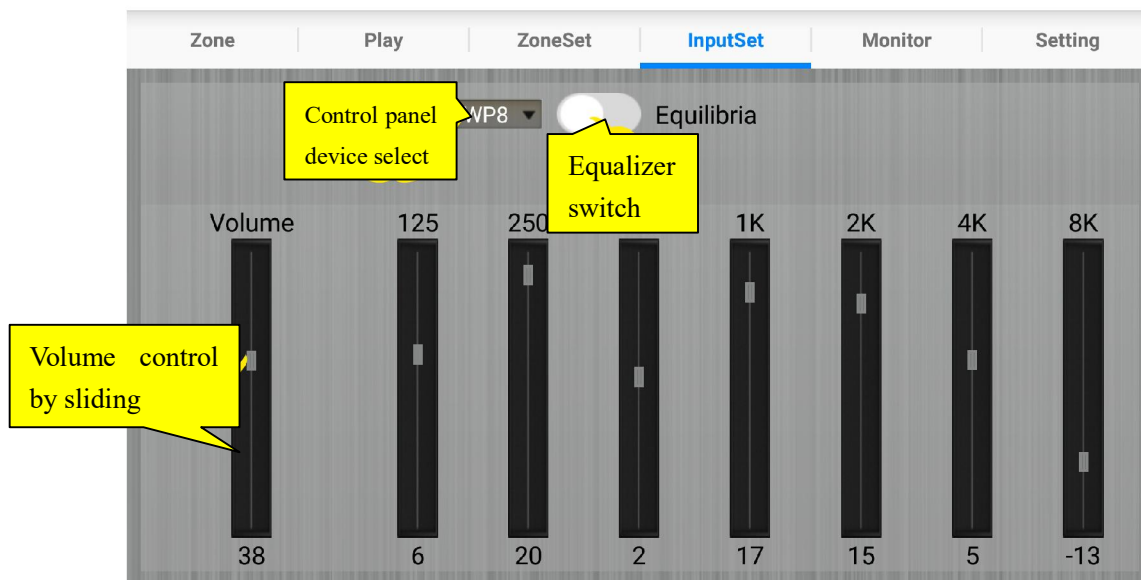
(2) Zone Settings

As shown below, each zone can be equalized. During the operation, it is necessary to open the switch of equalizer to adjust the equilibrium.



(3) Sound Source Settings

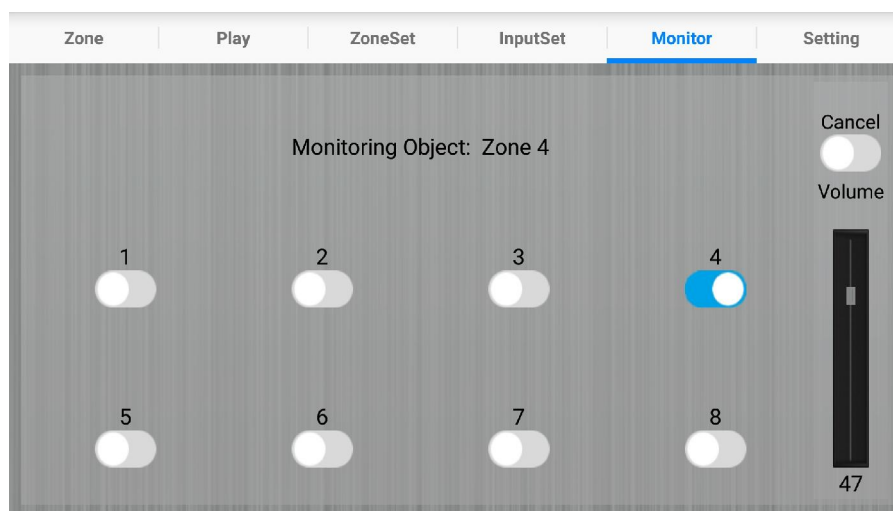
As shown below, each sound source of control panel device can be equalized and the volume can be set. During the operation, it is necessary to open the switch of equalizer to adjust the equilibrium.



Interface of Sound Source Setting

(4) Monitoring Interface

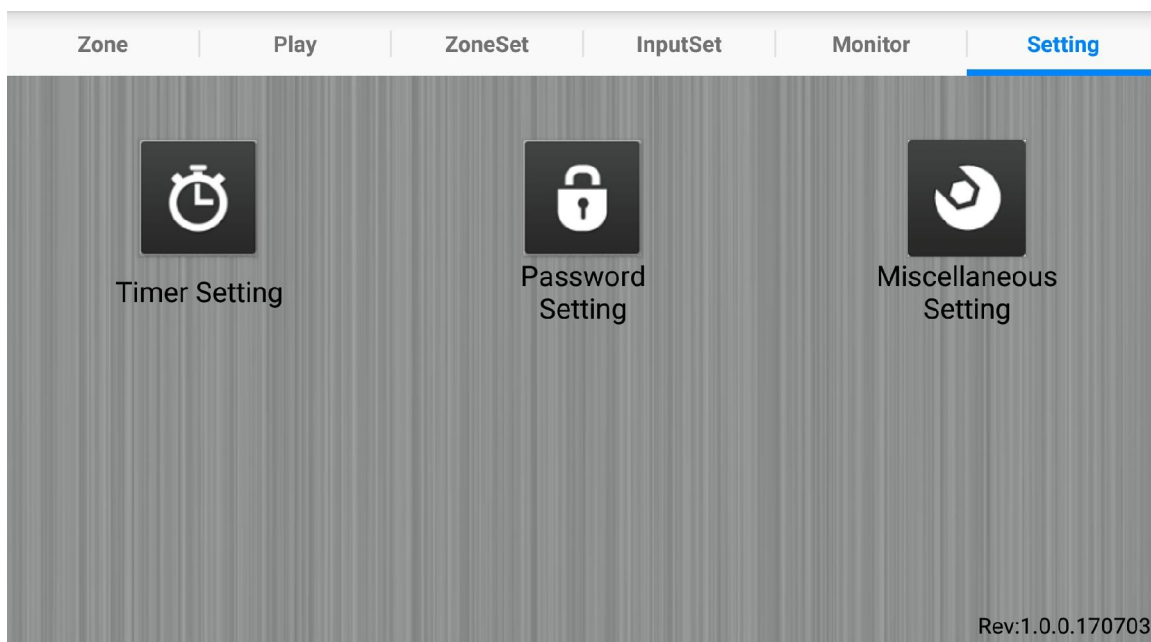
As shown below, only one zone can be monitored each time. When the background color of zone button becomes blue, it indicates this zone is monitored. When this zone will not be monitored, it can be canceled by clicking the key “Cancel” on the right of this interface. The volume size of the monitoring object can also be controlled.



Monitoring Interface

(5) Setting Interface

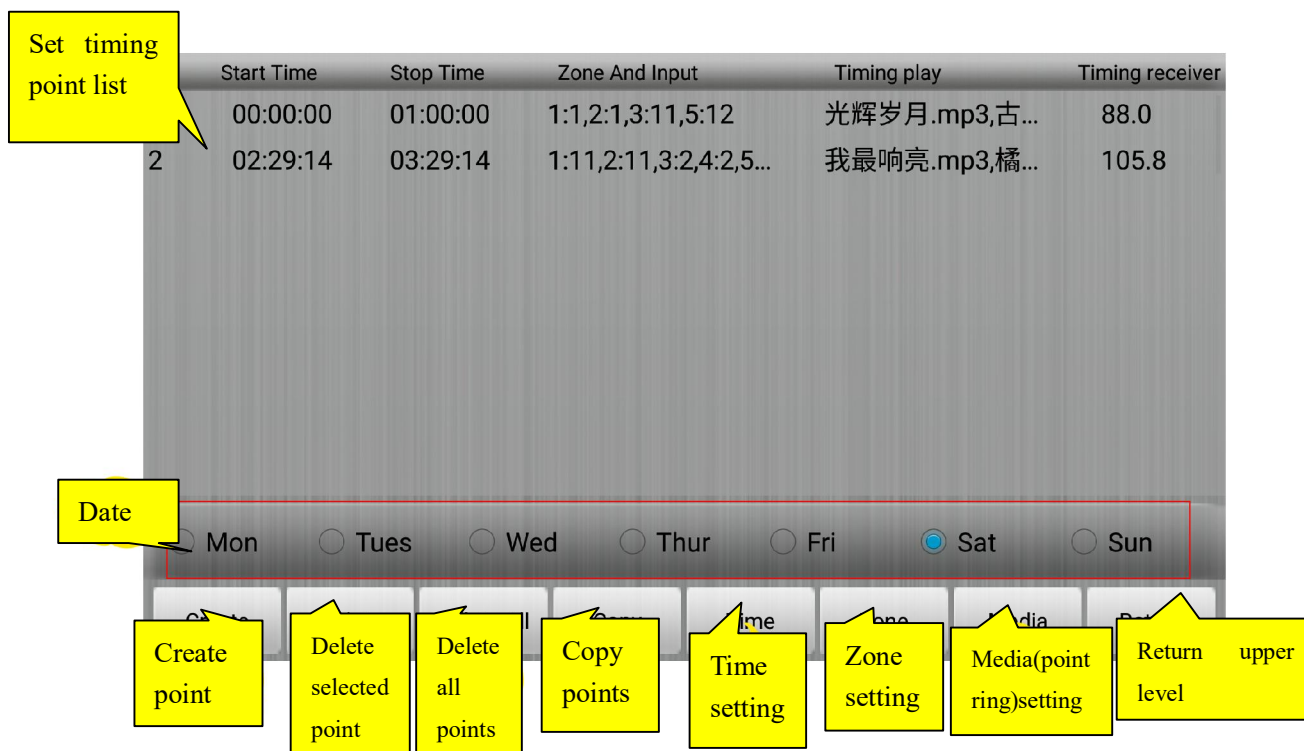
As shown below, you can set up some information of the system in this interface.



Setting Interface

1) Timing Point Setting

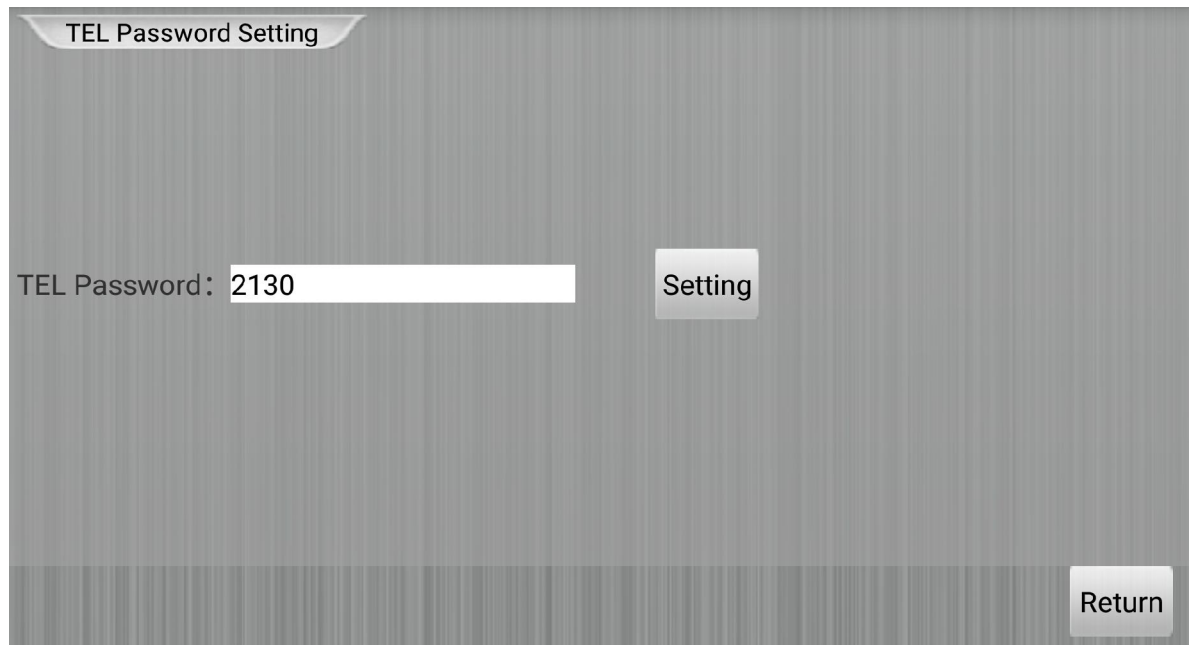
As shown below, can create timing point and the created timing point can be deleted, edit, zones setting, ring and other operations.



Timing point setting Interface

2) Password Setting

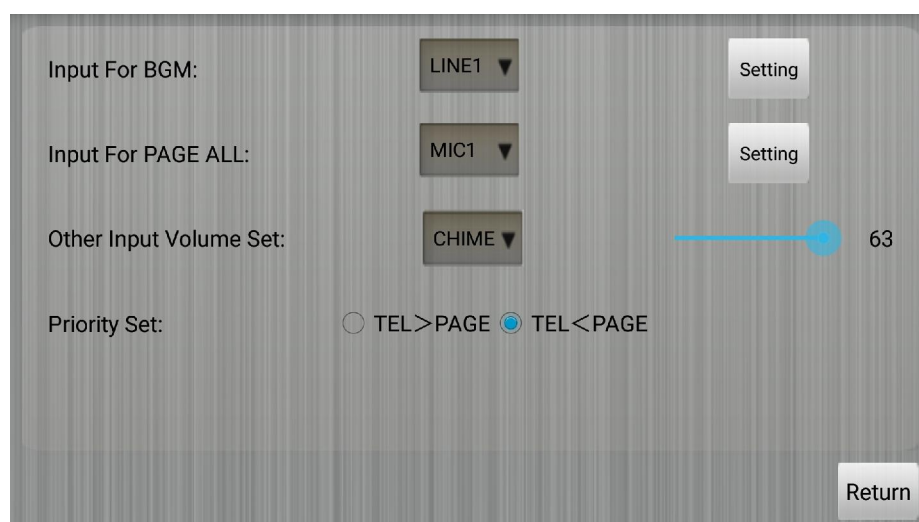
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Interface of Code Setting

3) Other Setting

As shown below, you can set up four setting items, namely, input for BGM (background music), input for PAGE ALL, other input volume set and priority.



Interface of Other Setting

4.2.3 Description of PC Interface

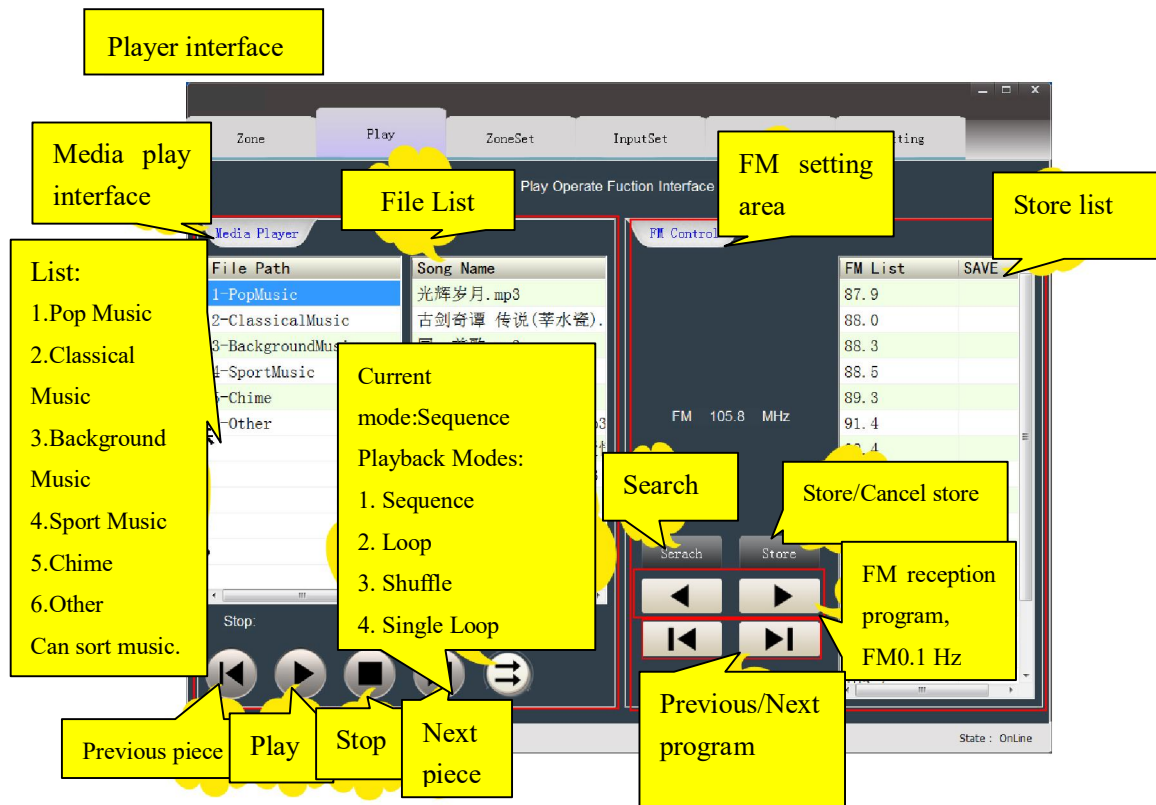
According to the operation of the PC terminal connection instructions, enter the main surface when the connection is successful, and can operate various operations in the interface which is as shown below.



Main Interface Chart

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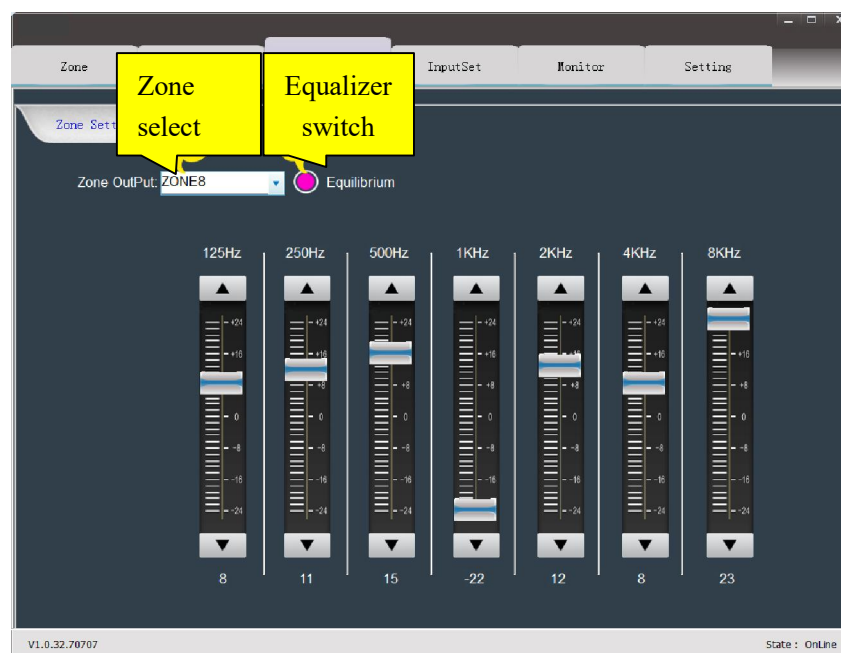
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Player interface

(2) Zone Settings

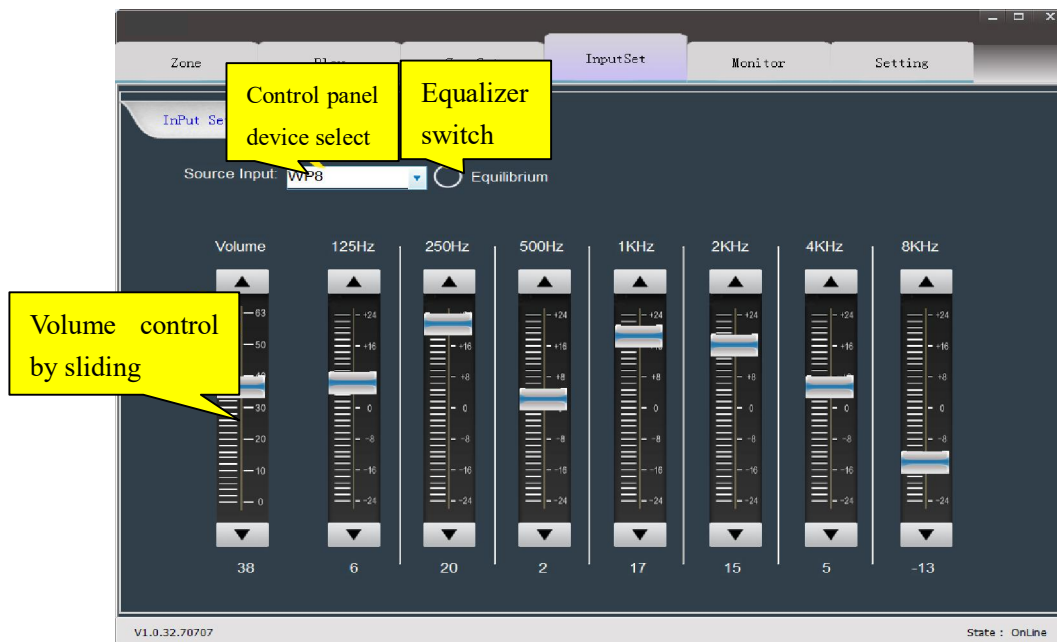
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Interface of Zone Setting

(3) Sound source setting

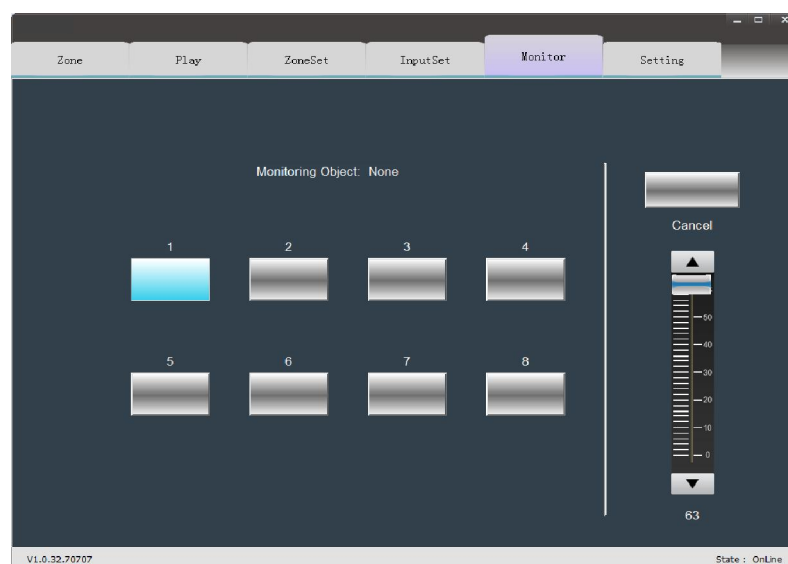
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Interface of Sound Source Setting

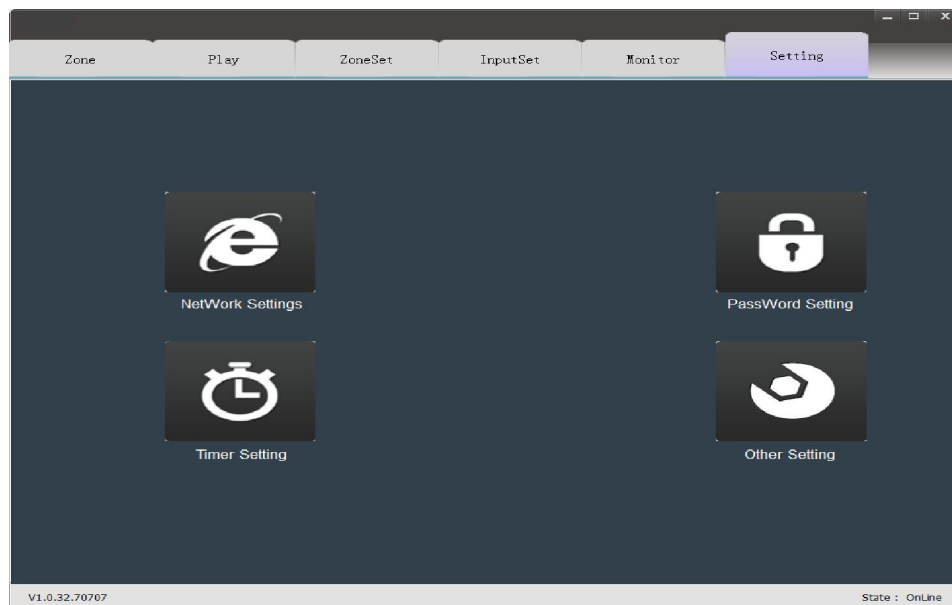
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(5) Setting Interface

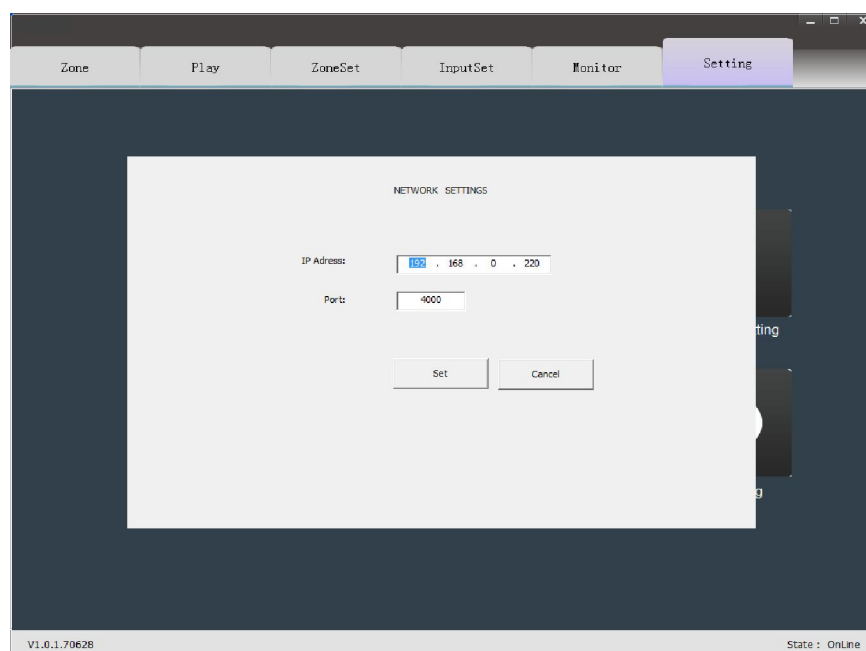
As shown below, you can set up some information of the system in this interface.



Setting Interface

1) Network Setting

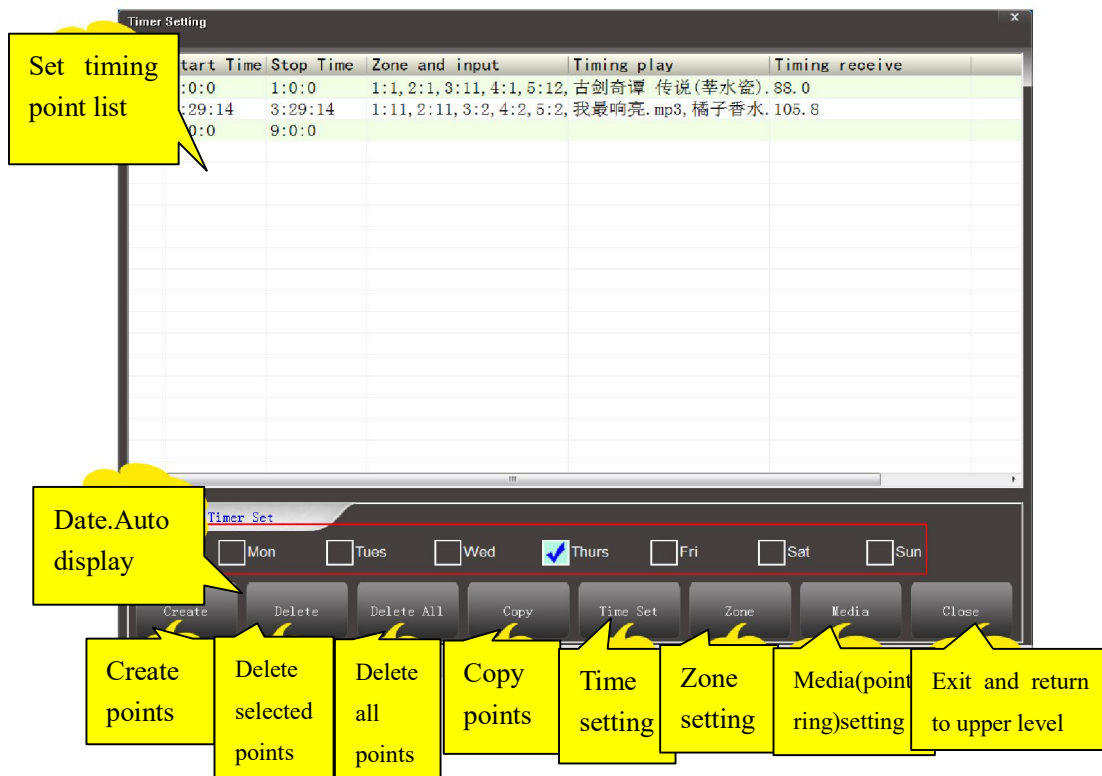
Click the “Network setting” button to enter the IP address setting interface which is shown as below and set the IP address as the current PC’ IP address. After setting the IP address, click ”SET” button.



Network setting interface

2) Timing Point Setting

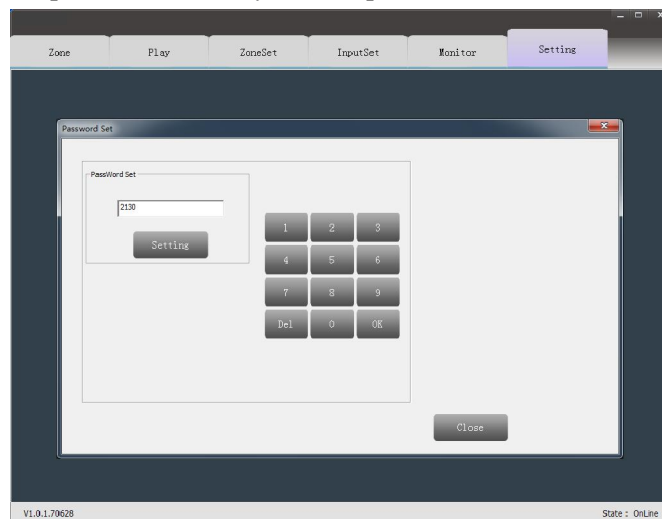
As shown below, can create timing point and the created timing point can be deleted, edit, zones setting, ring and other operations.



Timing point setting Interface

3) Password Setting

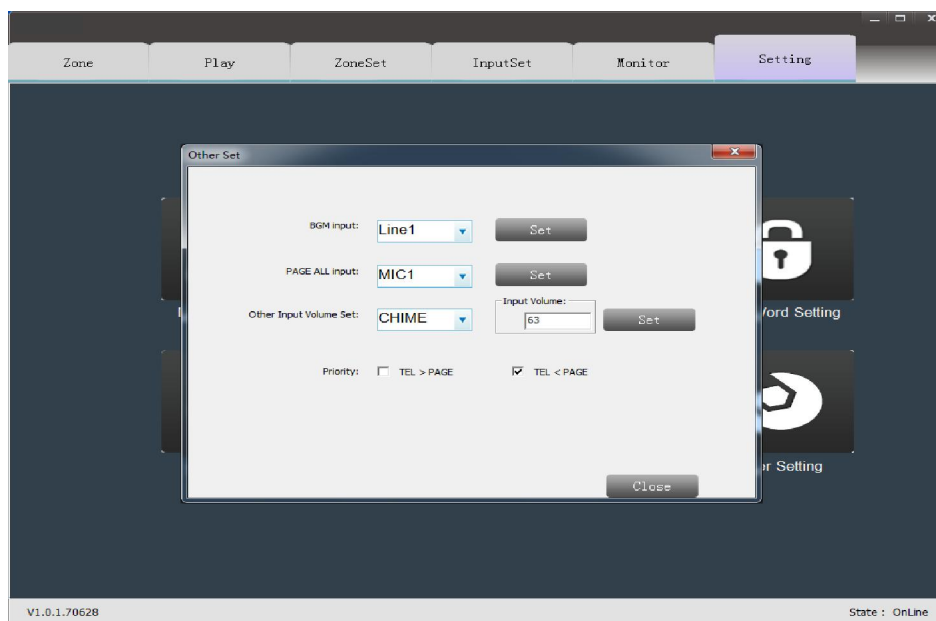
The password setting is mainly for the phone calls. When there is a phone call access, it can be answered only by entering the password. The password can only be set up to four numbers.



Interface of Code Setting

4) Password Setting

As shown below, you can set up four setting items, namely, input for BGM (background music), input for PAGE ALL, other input volume set and priority.



Safety Precautions

1. Precautions for Safe Operation

- Do not plug the power cord into the power grid before the system line is not connected.
- Be sure that the input voltage of the device is exactly the same as the voltage required for this device. Otherwise it may burn the device.
- Do not open the case without authorization in order to avoid the risk of electric shock because there is a dangerous voltage in the device.
- Please unplug the power cord from the socket for the sake of safety when the device will not be used because the device is not completely disconnected from the power grid when the device is powered off.
- Do not put the device in a super-cooling or superheating place.
- Be sure there is a well-ventilated operating environment to avoid the heat and excessive temperature from damaging the device during the operation.
- Please unplug the power plug in rainy or wet days or without operation for a long time.
- Be sure to unplug the power plug to ensure the complete disconnection from the power grid before detaching or re-install any parts of the device, disconnecting or re-connecting any electrical plugs of the device or performing any connection.
- Do not open the case to repair the device without authorization in case of any fault in order to avoid the accident or aggravate the damage of the device.
- Do not put any corrosive chemicals on or near the device.

2. Precautions for After-Sale Services

- The Company will provide the free warranty services of three years (including replacement of parts free of charge) for any quality problem occurred since the date of purchase if the user installed and operated the device as required and it is within the range of normal operation.
- For any warranty, the user must provide the warranty card, user's self-deposit stub invoice and sales invoice as the voucher.
- Any of the following circumstances is not included in the range of free warranty:
 1. Damage of product resulted from the incorrect installation, operation or handling;
 2. Damage of product resulted from any abnormal condition, for example, excessive power voltage or environment humidity, etc.
 3. Damage of product resulted from any natural disasters or other accidents;
 4. The serial number of the products on the shell is converted, altered or removed;
 5. The product was once repaired or modified by others rather than the authorized personnel of the Company;
- Please keep the Instructions and Warranty Card properly;
- For any question or attentions not covered in the Instructions, please feel free to contact our dealer or visit our website at: <http://www.lyintlcorp.com/>

- In case of any fault during the warranty period, please feel free to contact our service personnel or dealers for maintenance treatment. The Company will not bear any responsibility of free warranty for any damage resulted from the unauthorized demolition of the users themselves or the repair of others rather than the technical staff of the Company.

Packing List

No.	List	Quantity
1	M-808 Machine	1 set
2	Instructions	1 copy
3	Warranty card	1 copy
4	Certificate	1 copy
5	12P green plug with lock	4 pieces
6	9P green plug	2 pieces
7	FM antenna	1 set
8	2A fuse	1 piece
9	4A fuse	1 piece
10	1500MM/dual-cat audio cable	1 set
11	10A MP-P power cord	1 set
12	Washer, black	4 pieces
13	5×19 cross recessed countersunk head screws, white	4 pieces

Specification

Model	M-808
Power supply	-230V/50Hz/DC 24V
Input sensitivity of MIC1 & MIC 2	10mV
Input sensitivity of lines 1-8	250mV
Output voltage of lines 1-8	1V
Input sensitivity of EMC	250mV
MIC I/O frequency response (±3dB)	80Hz - 10kHz (±3dB)
Line I/O frequency response (±3dB)	20Hz - 20kHz (±3dB)
Radio frequency band	86-108 MHz
Max. output noise	<3mV
Output distortion (@1kHz)	<1% 1KHz
Machine size	484mm×375mm×132mm (1PS)
Packing size	540mm×510mm×195mm (1PS)
Net weight	10Kg
Gross weight	13Kg (1PS)

Technical specifications are subject to change without prior notice.

Cautions

- Please unplug the power cord plug from the socket for the sake of safety when the device will not be used because the device is not completely disconnected from the power grid when the power switch of the device is in OFF state.
- The device cannot be subject to water droplets or splashes and any items like vases filled with water cannot be placed on this device.
- Do not open the cover of the machine to prevent the electric shock. If necessary, it shall be repaired by the professional with the professional certificate.
- The terminal marked with a symbol ⚡ in the device indicates that it is dangerous and charged. The connecting operation of these terminals shall be performed by the trained staff.
- The device is connected with the power grid via the power cord plug, so, the connection between the device and the power grid can be cut off by unplugging the power cord plug in case of any fault or danger. Therefore, the power outlet is required to be mounted at a place where the plug of the power cords can be easily unplugged or plugged.

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