Public Address System

Network Public Address Center **M-6182II**

User Manual

Thank you for using our network public address system. Please read this User Manual carefully to make better use of this equipment.

LY International Electronics Co., Ltd.

http://www.lyintlcorp.com/

About this User Manual

This User Manual is available and effective upon completion of development of the Network Public Address Center. The User Manual includes system description, matters needing attentions in use, instructions on system connection, instructions on use of product and technical specifications of the network address center. Please read this User Manual carefully before connection, installation and use and operate in accordance with corresponding instructions in the Manual.

This symbol on the rear panel indicates matters needing attentions, please use or operate the product in accordance with corresponding instructions.

Please keep this User Manual in good custody for future use.

M-6182II—V1.0

Matters needing attention

Please read the following before operating the product.

⚠ Warning

The following basic requirements must be strictly observed, to avoid potential personal injury and equipment or property damages to you or any person nearby. The basic requirements include without limitation to the following:

Power source/power cable

• Please disconnect the device from power source by pulling the plug other than the power cord. Pulling the power cord may result in damages.

• Please keep the power cord away from heat source. Do not over-bend the power cord or place it anywhere it can be stepped on or may cause to trip.

• This is connected to power source via the plug and any failure or danger occurs, the user can disconnect the device from power source by pulling out the plug out from the socket, therefore, it is required that the power socket should be located somewhere with easy access.

• The device is not completely disconnected from power source when it is switched "OFF". For sake of safety, please disconnect the device from the socket if it is not in user.

Positioning

• Please disconnect the device from power source before relocating the device.

• For avoiding deformation of panels and damages to internal components, please do NOT place the device where there is heavy dust or violent vibration, or where it is extremely cold or hot.

• Please keep this device off water drops or splash or vase filled with water or any other articles of similar nature.

Connection

• Please disconnect other equipment from power source before they are connected to this product. Please tune volume to its minimum level before the device is powered ON or OFF.

• All terminals on the device marked with ⚡ are live and dangerous, and should be connected by trained personnel.

When abnormal conditions are realized

• Please disconnect the device from power source immediately in case the power cord is worn or damaged or if the sound is suddenly cut off or any abnormal odor or smoke comes out from the device, and then have the device inspected and repaired by professional personnel.

Precautions in Operation

• Please do NOT insert any finger into any gap or opening of the device.

• Please prevent foreign objects (paper, plastics or metal etc.) from being inserted or falling into any gap or opening of the device. In such case, please cut off power source immediately.

• Please do NOT put the body or any heavy object on the device and do NOT operate the buttons or switches or connections with excessive force.

Do NOT open

• Please do NOT remove the cover of the equipment, otherwise you may get an electric shock.

• Do NOT attempt to remove any internal component from the device, or to modify the equipment in whatever manner. In case of any abnormal condition, please stop using the device immediately and have it inspected and repaired by professional personnel.

Other Precautions

• Our company shall not be responsible for data loss or damages due to improper use of unauthorized modification to the device.

• The images and screen display in this Manual are only for description and may be different from screen images in actual operation. The screen display depends on the product.

Content

System Overview

1. About the Network Public Address

Network public address is a computer network technology based, modular structured and highly integrated and intelligent public address system.

The system realizes completely digital transmission and takes LAN as its transmission medium, and the transmission distance may be over a dozen kilometers. The existing LAN architecture may be used so that projects adopting the device can be constructed quickly and efficiently. It realizes fusion of multiple network and breaks the limitations that traditional public address systems can only realize download and can be only controlled at the computer room, by providing powerful interactive functions.

The network public address device is compatible with terminals with various functions, including player terminals, VOD terminals, paging terminals and one-button emergency calling terminals etc. The device is composed of a player, a zoning mechanism, a timer and an equalizer, in addition it also provides powerful audio matrix function.

The network public address system is applicable to airports, wharves, college towns, schools, large gatherings (such as the Expo Park), gymnasium, industrial parks, parks, rail transit and express ways, etc.

2. Functional Features

- A public address system with complete functions.
- The system realizes completely digital transmission and takes LAN as its transmission medium, and the transmission distance may be over a dozen kilometers.
- The existing LAN architecture may be used so that projects adopting the device can be constructed quickly and efficiently and fusion of multiple networks is realized.
- It breaks the limitations that traditional public address systems can only realize download and can be only controlled at the computer room, by providing powerful interactive functions.
- It supports infinite number of zones and such zones and groups can be organized and reorganized at will, without needing rewiring.
- Audios can be scheduled and programmed and the system operates in accordance with preset programs in an unattended manner. Various types of audio can be set as regular rings to be played manually or at a preset time of each day. Zones also support separate timing operations and playing different programs at a same time and at various volume levels.
- Programs on terminals: The controller may designate audios to be played on each terminal or the terminals may play any audio available on the controller.
- Break-in paging: The master controller may page any single or all zones and can accept phone paging.
- Talkie Talkie: If more than one zone has been configured on the system, then there may be several groups of one-to-many terminal paging between the zones. Paging and Talkie Talkie functions are also supported

between two terminals.

- Remote control: The remote control computer is any computer in the Local Area Network, on which the control software of the system has been installed, and the remote control computer may take control over or modify the operation of this system.
- The system provides a fire control interface and alarm signals can break in automatically and at a same time it supports short-circuit alarm (alarm card) and network signal alarm. A fire icon will show on the main interface of corresponding zone in case of fire alarms. The alarm status is clear and informative.
- The addressing can be automatically resumed after the interrupted terminal re-establishes connection to the system and zone information will be automatically updated after modification.
- The operating interface is intuitive and user-friendly. Zone name can be modified at any time by using a full keyboard.

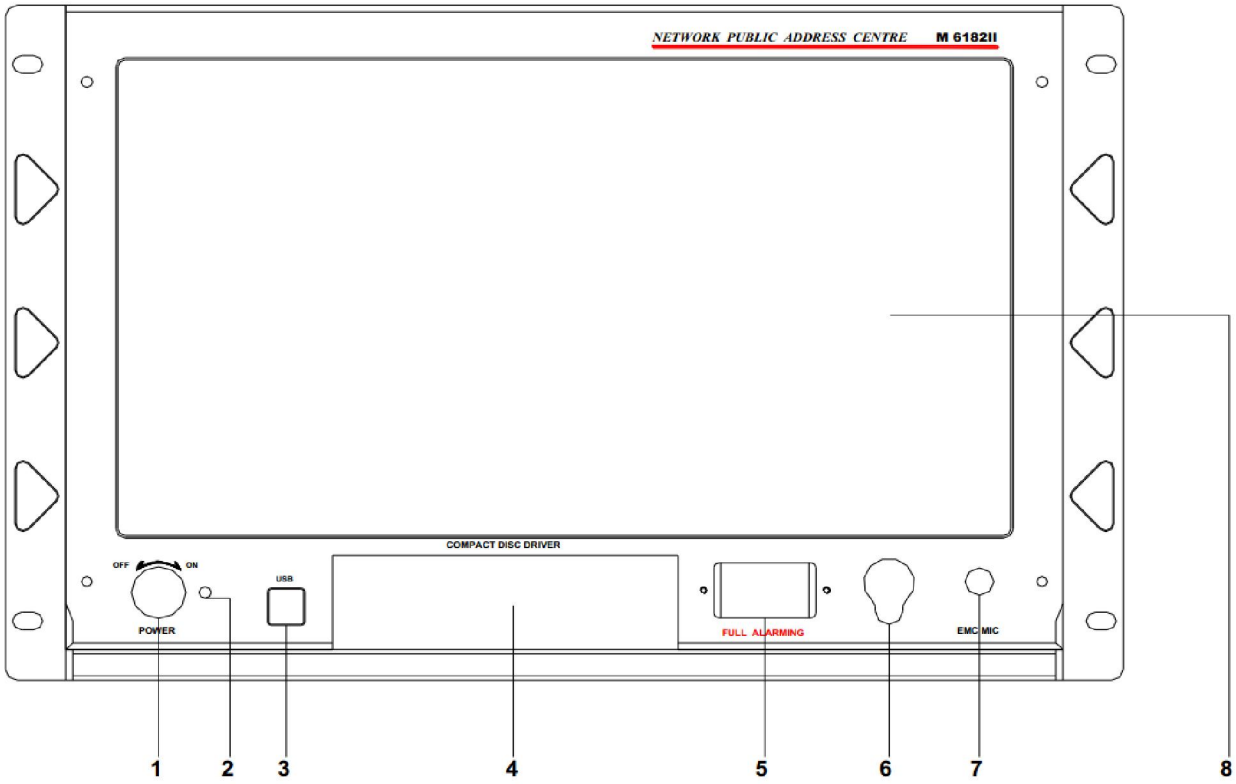
Chapter 1 System and Hardware

1.1 Introduction to Network Public Address System

1.1.1 Functional Features

- 17" large color LCD display, touch screen and touch-pad;
- Key switch to ensure better security and stability of system;
- Powerful addressing matrix, integrated mass space for program source, program customizable on basis of users' needs;
- One button to activate zone wide alarm and manual alarm function;
- Zone specific monitoring allows real-time control over play status and volume level on terminals;
- Zone based paging. It is allowed to page a zone on the controller
- New zone can be automatically displayed, without needs of further setup and restart of the controller;
- Automatic screen saver, to cut down operating energy consumption;
- Recording function. The user can make his/her own program source by recording on local device or by downloading from a remote computer;
- Time control function. It allows presetting a time, on which program will be downloaded from remote computer to the local device;
- Internal CD player, with independently developed CD player control interface;
- Audio input channels extensible by network paging terminals;
- Modular design, network extension module can be installed, flexible customization function, convenient maintenance;
- Adopt industrial solid hard disk and mechanical hard disk, start faster;
- Adopt high-end industrial server system board design, dual network redundancy backup;
- Customize the batch processing function of <shortcut key> and program source priority;

1.2 Front Panel



1. Key switch (POWER)

The key switch works as power switch of the device and a user may turn on the network public address system device by a special key and turning clockwise. Before the device is powered off, please enter the "System Settings" interface and shut down the system by using "Shut down system" button.

2. Power LED

The LED is on when the device is powered on. The LED is yellow and flickers shortly after the device is powered on, indicating that the system is starting up. After the system completes start-up, the LED is green and constant on.

3. USB Port (USB)

The USB port is for connection of a USB disk, mobile HDD or other storage devices, to copy programs to the system. It may also be used to connect to a keyboard or mouse with USB port, for software upgrading.

4. Internal CD drive

Push the Eject button on the CD drive to eject the CD tray and then place the CD on the tray and press the Eject button again to close it. (Note: Do NOT force close the drive by hand.)

5. One-button alarm activation button (FULL ALARMING)

The signal when this button is pressed has the second highest priority, which is only inferior to the emergency microphone (6). As an activation button of emergency alarming, when an emergent event occurs, when this button is pressed, all zones will be automatically activated and emergency signals will be send to all zones. The LED of this button is red in emergency status, at which time a user can press this button again to finish the alarming.

6. Hand emergency paging microphone holder

When the emergency microphone is not in use, please hang the microphone front side forward by using this hole.

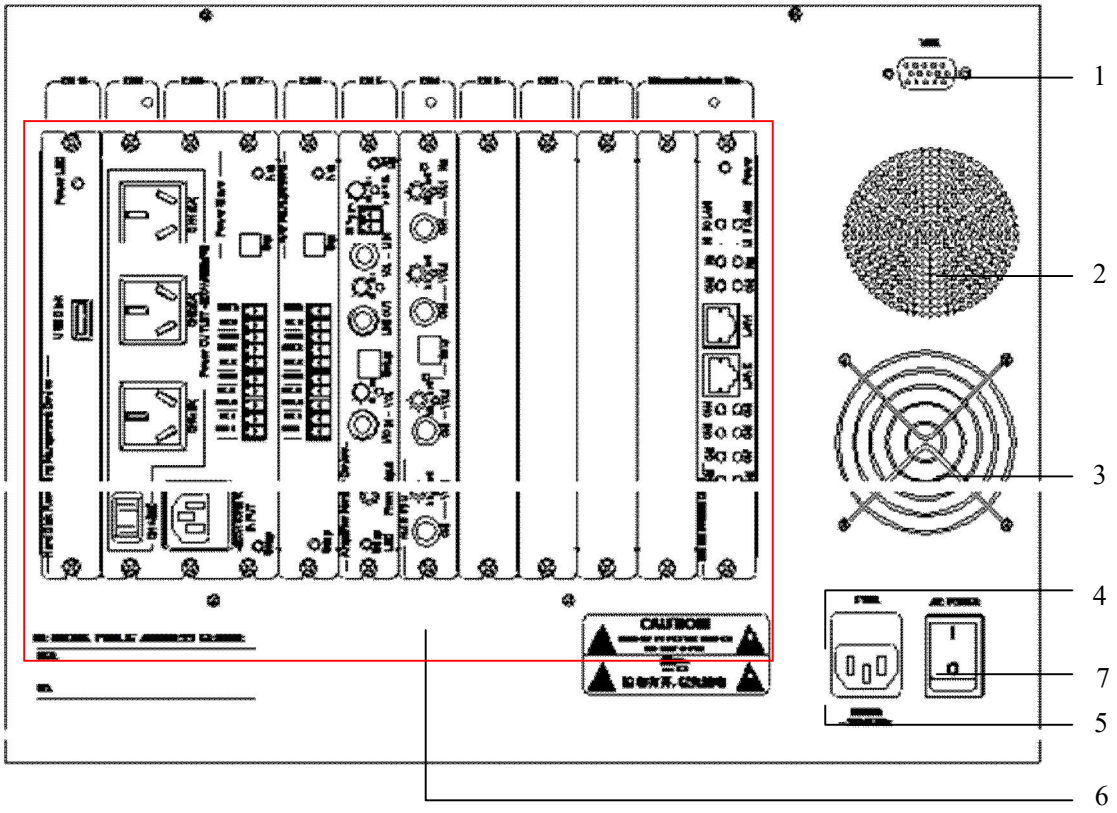
7. Hand emergency microphone jack (EMC MIC)

The hand emergency microphone has the supreme priority and when the power button on the microphone is pressed, all zones will be automatically activated and all other signals will be suspended. (Please refer to related User Manual for operations on emergency microphone CB-100. No description will be repeated here.)

8. Monitor/touchscreen

The color monitor/touchscreen can display various information of the device in real time; and a user can touch the screen to operate the device.

1.1.3 Rear panel



1. Data exchange interface (DATA)

It is used to connect the device to functional module extension box.

2. **Speaker**

3. Ventilation Window

Please do NOT place this device against walls and do NOT block the ventilation port.

4. Fuse carrier of the device

If the fuse is broken, it should be replaced by fuse of the same specification. Please refer to marking next to the fuse or list of product performance indexes. If the fuse keeps breaking, it means that there is short circuit in the device. Please eliminate the fault before replacing the fuse.

5. Power input plug of the local device

The power source for this device is AC220V (±10%), please make sure the voltage of power source to the device conforms to required voltage.

6. Functional module extension port

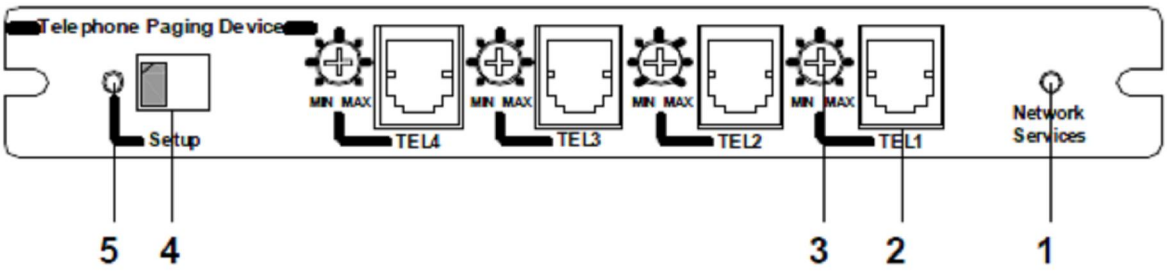
Insert monitor module / power main or standby extension module, modules can be extended as needed.

7. Power Switch

2、Functional Module Description

2.1 M-6418 phone paging module

M-6418 phone paging module is a TCP/IP based digital PSNT analog switch from analog phone input to digital transmission. An analog phone cam be transferred to the PA system via a local telephone port, to realize seamless combination with traditional internal communication systems. Since it adopts dual tone automatic identification, the system can realize telephone level telephone control.



1. Network indicator

When the phone paging module is offline, the **indicator** is in red color, and it turns bright green when the module re-establishes network connection to the controller.

2. Telephone input port

The module provides 4 telecommunication ports for connection to 4 telephone lines.

3. Input electrical level adjustment

To adjust the knob according to the rate of the input audio signal level

4. DIP switch

This port is for use to set up local IP address. Each switch is accompanied with two digits, namely "0" (switched up) and "1" (switched down.) The four switches forms a combination from right to left, by which 15 different IP address can be set. The user can conclude the modified IP address by default IP address + set IP address (in decimal) -1. After the IP address is set up, switch up the four DIP switches and confirm the modified IP address. This operation also requires an IP address modification software to complete the IP address modification.

5. DIP indicator

The indicator is on when the user uses DIP switch to modify IP address.

Functional features:

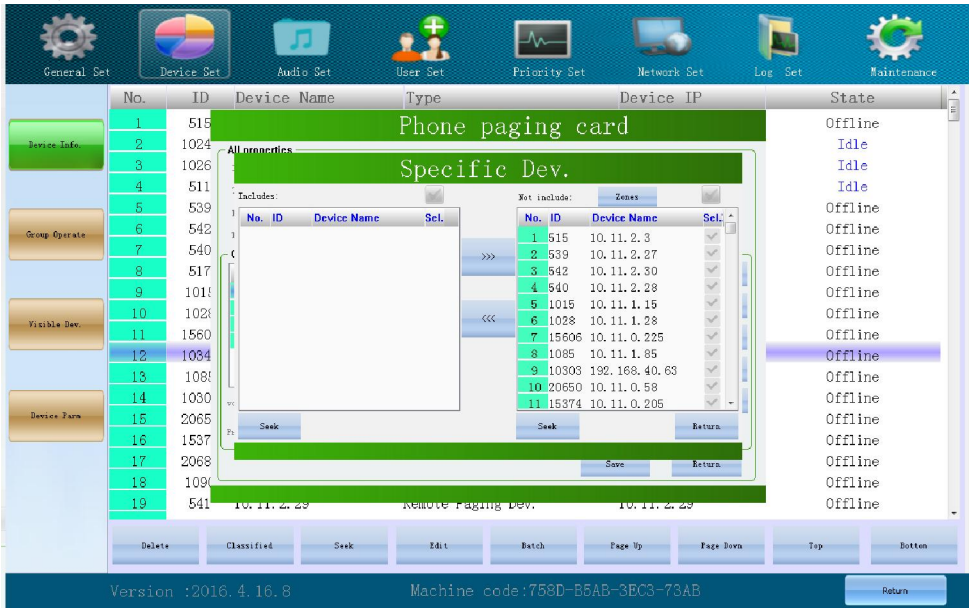
- Modular design, with each module capable of input 4 telephone lines at a time.
- Embedded voice menu prompt function.
- Dual network port design, with one extension port to be connected to other 100Mb network device.
- 10M/100M adaptive networking
- It supports maximum 48kHz sampling rate and 16bit sampling.
- Lowe power consumption.
- Adaptable input sensitivity.
- Customize IP interface.

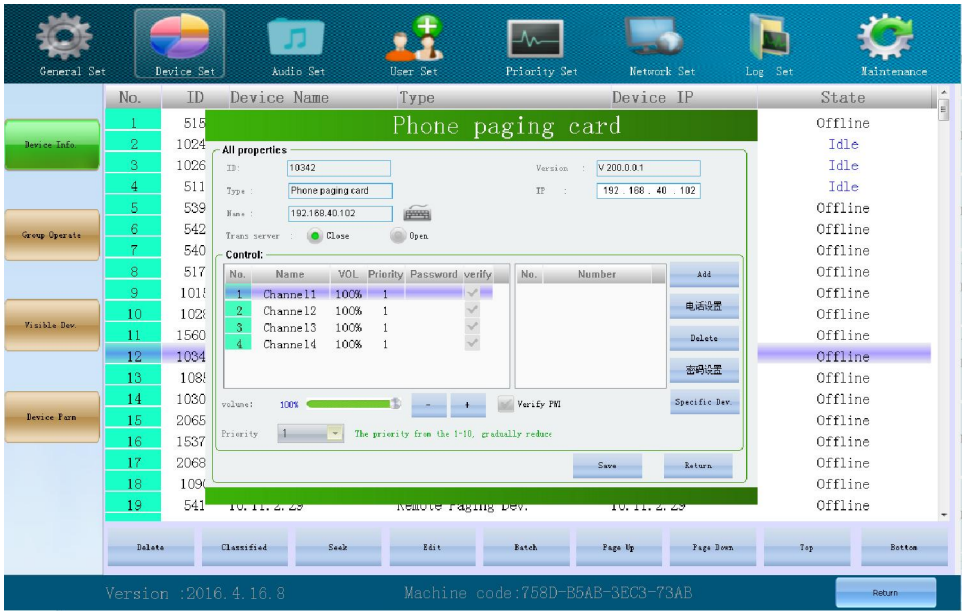
2.1.1 Installation of phone paging module:

The phone paging module may be installed in the single slot extension box or multi-slot extension box of the network public address system. Please refer to the user manuals of the two extension boxes for details as to installations.

2.1.2 Operation of M-6418 on the host :

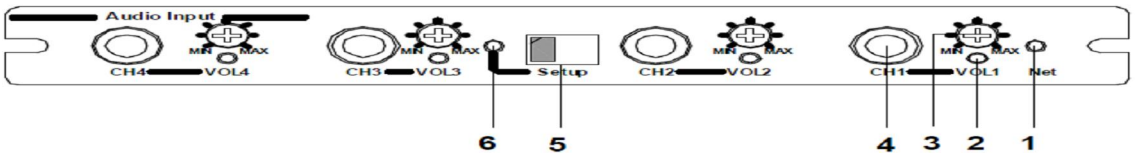
When the phone paging function is added to the network public address system, after the module is installed and correctly wired, the user should assign corresponding IP address to the module. Connection to the module can be realized after an IP address has been set. Setup procedures: Enter “Zone Setup interface”, click on the "Add" button on the lower left corner, select the phone paging terminal from the list of terminal types and enter the "Zone No" and "Zone name" as well as "Terminal IP". Then touch "Confirm" button to add the phone paging module to the system.





2.2 M-6411 audio sampling module

M-6411 airport broadcast audio sampling device is a TCP/IP based full-digital analog-digital signal processor. Local programs, background music and internal voice signals can be transferred to this PA system via the local audio input port, realizing seamless combination with traditional internal communication systems and intelligent control, without needs for local operations. The module can work properly as long as it has been properly set by a management software. It integrates a voltage limiter 2 to ensure the speech transmission index is not reduced. No local operation is required.



1. Network indicator

When this system is offline, the indicator is in red color, and it turns bright green when network connection to the controller is re-established.

2. Audio indicator

There are 4 audio indicators from right to left and the brightness of such indicator is determined by input power signal level of the channel.

3.Input electrical level adjustment

To adjust the knob according to the rate of the input audio signal level

4. Audio input port

There are 4 audio channels from right to left, for connection to other amplifiers, in order to extend the power of this terminal.

5. DIP switch

This port is for use to modify the IP address of the local device and each switch is accompanied with two digits, namely "0" (switched up) and "1" (switched down.) The four switches forms a combination from right to left, by which 15 different IP address can be set. The user can conclude the modified IP address by default IP address + set IP address (in decimal) -1. After the IP address is set up, switch up the four DIP switches and confirm the modified IP address. This operation also requires an IP address modification software to complete the IP address modification.

6. DIP indicator

The indicator is on when the user uses DIP switch to modify IP address.

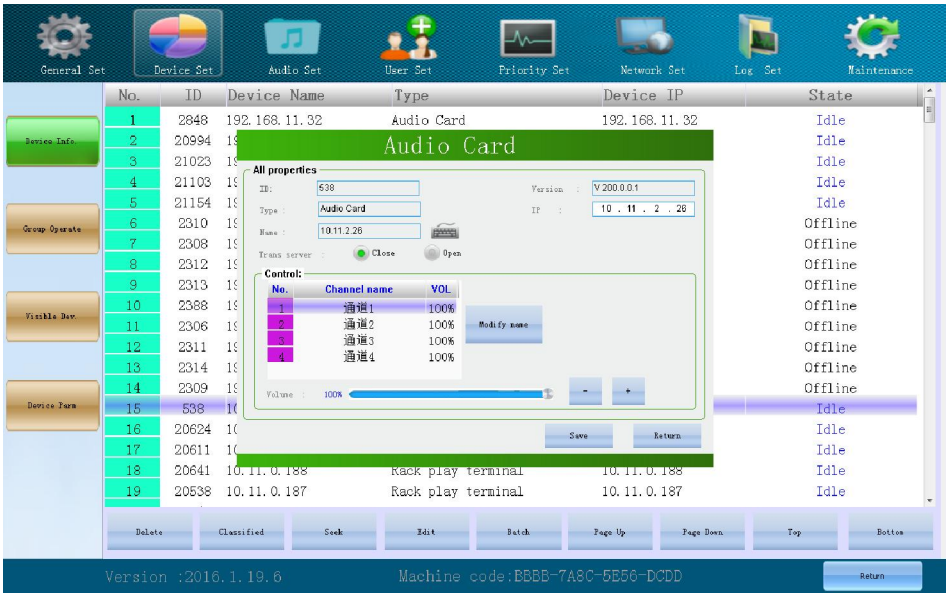
Functional features:

- Modular design, with each module capable of input 4 audio channels;
- Conversion of analog audio signal to digital audio signal which is sent to the network at request of the controller;
- Full digital design, HiFi, high speech transmission index.

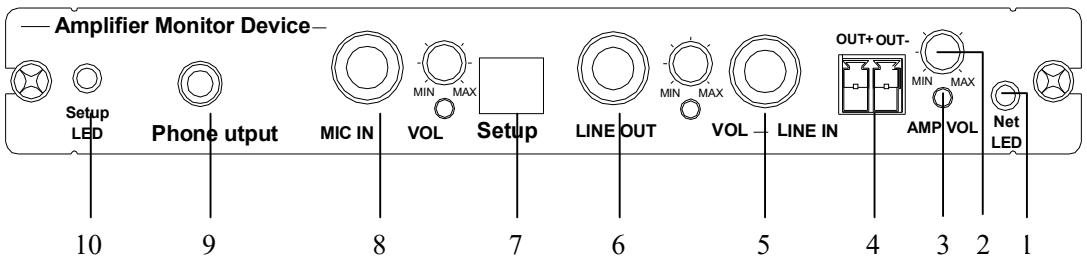
Procedures for installation of audio sampling module is the same as phone paging module. They are both installed in the extension box of the network public address system. Please refer to the user manual of the extension box for details as to installation methods.

2.2.1 Operation of M-6411 on the host ：

When the audio sampling module is added to the network public address system, after the module is installed and correctly wired, the user should assign corresponding IP address to the module. Connection to the module can be realized after an IP address has been set. Setup procedures: Enter "Zone Setup Interface", touch the "Add" button on the lower left corner, select the audio sampling device from the list of terminal types and enter the "Zone No" and "Zone name" as well as "Terminal IP". Then touch "Confirm" button in the lower left corner to add the audio sampling module to the system.



2.3 M-6113 Monitor Module



1. Network indicating LED

When this system is offline, the LED is in red color, and it turns bright green when network connection to the controller is re-established.

2、Input electrical level adjustment

To adjust the knob according to the rate of the input audio signal level

3、Audio indicator

The brightness of such indicator is determined by input power signal level of the channel.

4、Amplifier interface

Connect the passive speaker and the other equipment（Fixed resistance 4 ohm/10W or Fixed resistance 8ohm/5W）

5、Audio signal line input interface

To connect the other audio equipment, such as CD, tuner, mp3 and so on.

6、Audio signal line output interface

Output audio line signal，connect the amplifiers, mixing consoles and so on

7、DIP switch

This port is for use to modify the IP address of the local device and each switch is accompanied with two digits, namely "0" (switched up) and "1" (switched down.) The four switches forms a combination from right to left, by which 15 different IP address can be set. The user can conclude the modified IP address by default IP address + set IP address (in decimal) -1. After the IP address is set up, switch up the four DIP switches and confirm the modified IP address. This operation also requires an IP address modification software to complete the IP address modification.

8、Microphone input interface

The interface connect to other equipment. The input signal is mixed the same input channel with emergency MIC input (EMC MIC) on front panel. When the emergency MIC Channel is opened (local paging), the interface can also be selected and output together with the signal of emergency MIC channel. When emergency MI Channel was closed (cancel local paging) , the signal of the interface will not be output.

9、Headphone/earphone interface

Connect the headphone/earphone

10、DIP indicator

The indicator is on when the user uses DIP switch to modify IP address.

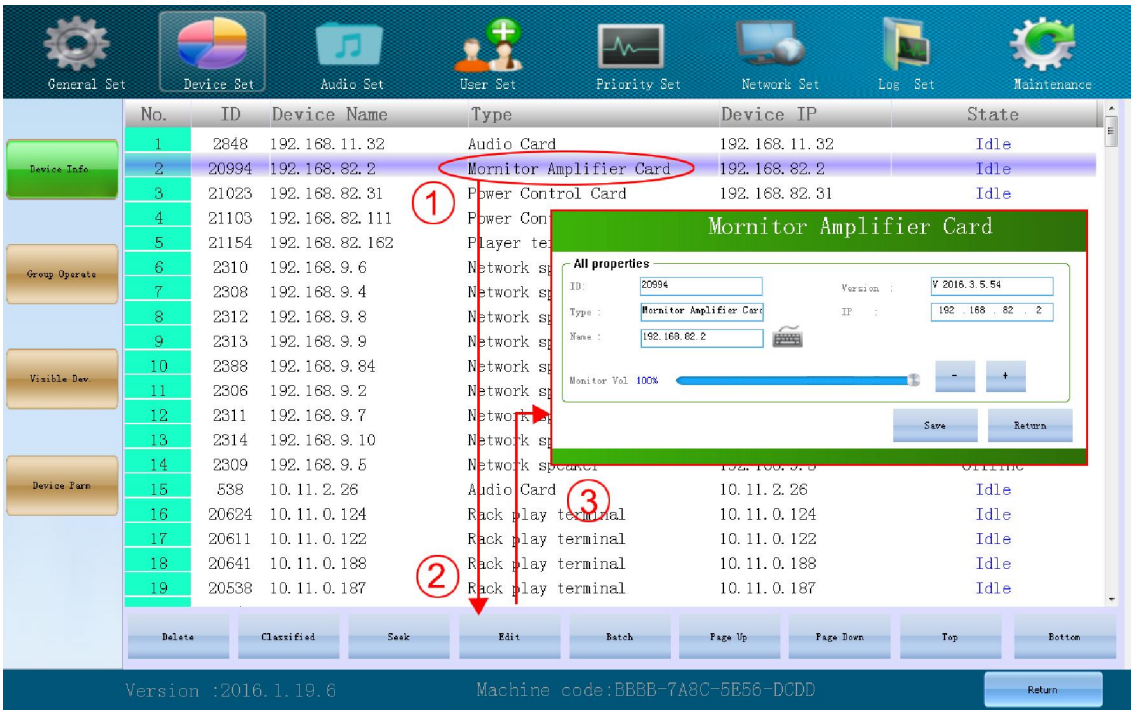
Features:

- Network monitoring function
- Monitor terminal output sound
- Monitor the terminal environmental sound
- 1 line input and output, 1 line MIC input
- 3.5 headphone/earphone input interface

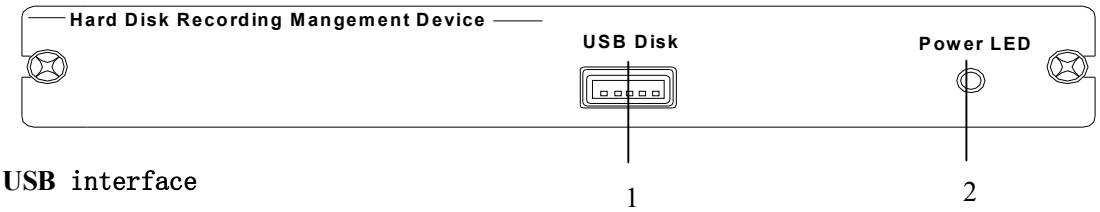
Procedures for installation of monitor module is the same as the other modules. They are both installed in the extension box of the network public address system.

2.3.1 Operation of M-6113 on the host:

When the monitor module is added to the network public address system, after the module is installed and correctly wired, the user should assign corresponding IP address to the module.



2.4 M-6114 Hard disk module



1. **USB interface**

When the program is copied to the system, this interface is used to connect the U disk or mobile hard disk etc.

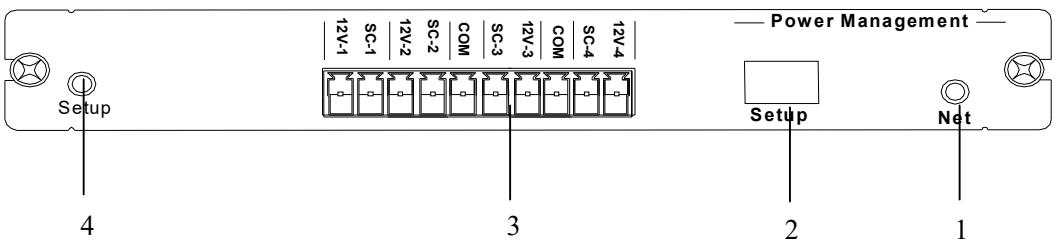
In the system settings or other operations, this interface is used to connect a keyboard or mouse with a USB plug.

2. **Power display**

Features:

- Record system paging, intercom and other audio files
- Record video broadcast content file

2.5 M-6111 Power main extension module



1. Network indicating LED

When this system is offline, the LED is in red color, and it turns bright green when network connection to the controller is re-established.

2、DIP switch

The operation method is same with the other functional card. There is no description about it.

3、12Vpower and SC short circuit channel

(1) 12Vpower output interface

12V-1 …… 12V-4，C1 to C4 12Vpower output，COM is a common port。

(2) Short circuit signal output interface

SC-1 …… SC-4，C1 to C4 short circuit signal output，COM is a common port。

4、DIP indicator

The indicator is on when the user uses DIP switch to modify IP address.

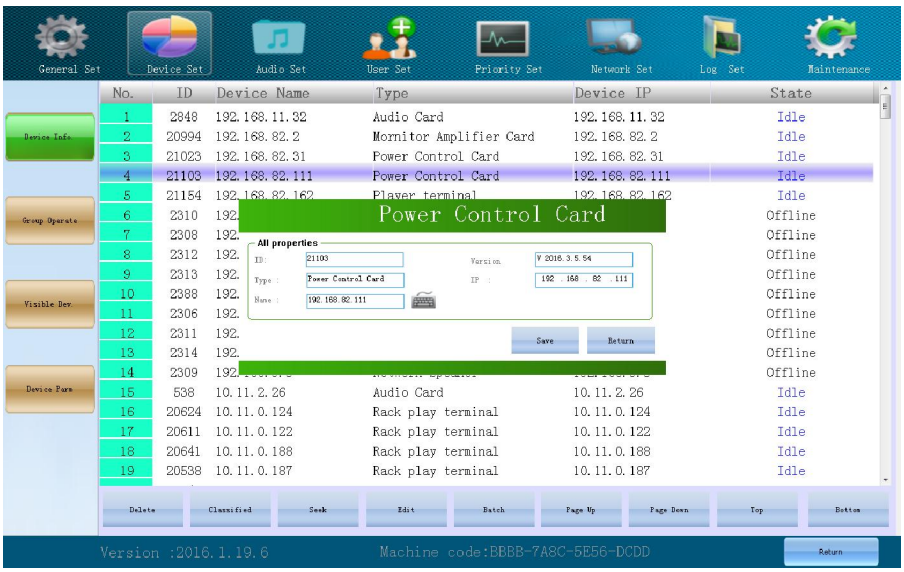
Features:

- Smart power management function
- Host switch and power management function
- Indicating function of alarming, fault and the other emergencies output
- 24V/1A shortcut output, connect the output indicator
- Integrated control function of 4 way power output

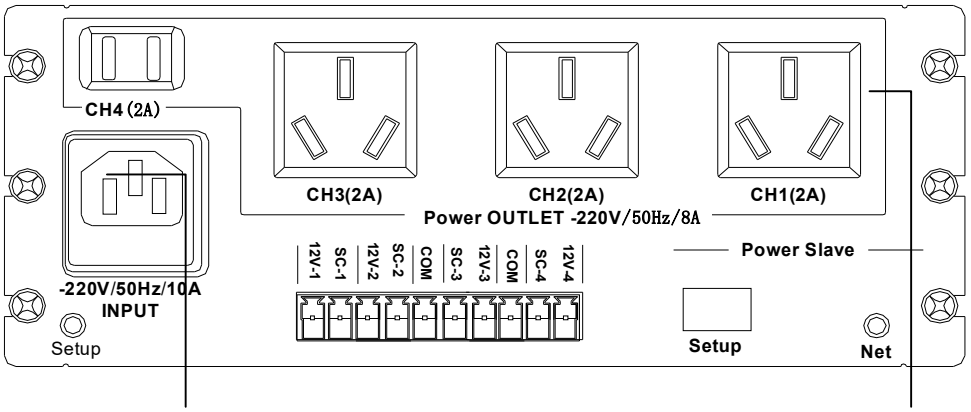
Procedures for installation of Power main extension module is the same as the other modules. They are both installed in the extension box of the network public address system.

2.5.1 Operation of M-6411 on the host:

When the power main extension module is added to the network public address system, after the module is



2.6 M-6111 Stand-by card for power extension



1、Power input plug

Power supply AC220V（±10%），Please make sure that the power voltage of the machine is in conformity with the value of the power voltage.

2、Timing power output socket

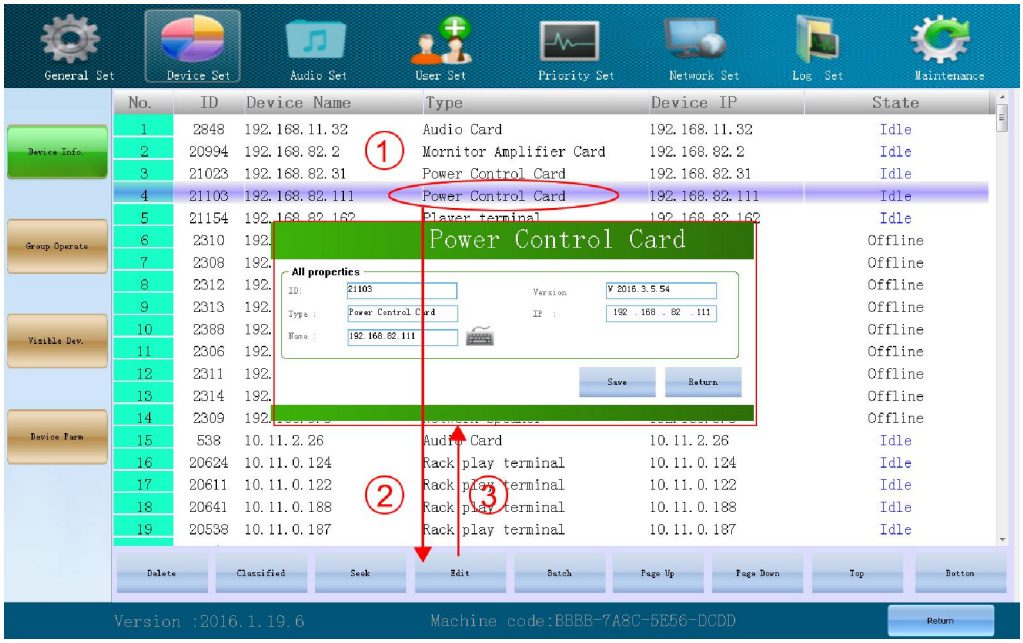
The machine comes with a 4 channels timing power output socket, supply power to other devices.The power of this interface can be controlled by the timing point to control the switch. It will automatically turn on/off with the arrival of the timing point when it is in the "programmed" state

Features:

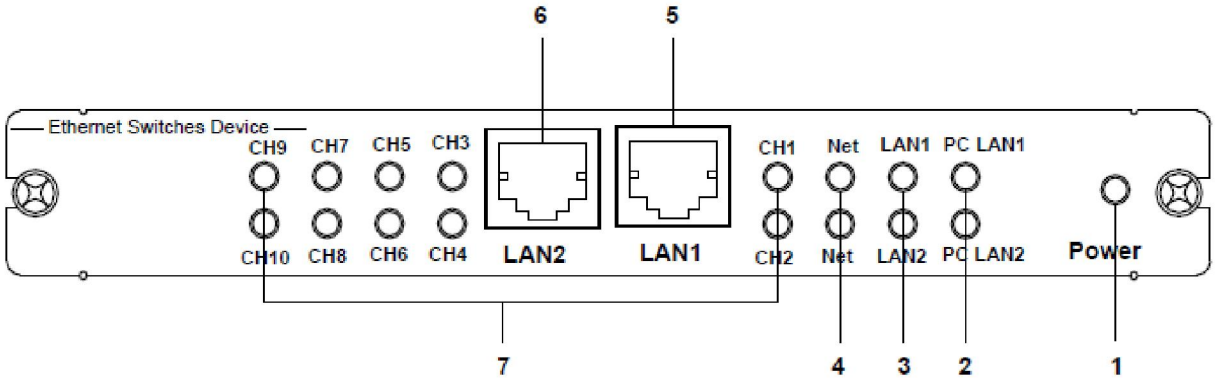
- Smart power management function
- Host switch and power management function
- Indicating function of alarming, fault and the other emergencies output
- 24V/1A shortcut output, connect the output indicator
- Integrated control function of 4 way power output

2.6.1 Operation of M-6113 on the host:

When the extensional stand-by card is added to the network public address system, after the module is installed and correctly wired, the user should assign corresponding IP address to the module.



2.7 M-6110 Switch data exchange card module



1、 Power indicator

When the power is connected, the indicator is always on.

2、 PC Network indicator

When the internal main board of host connect the switch data exchange card normally, the indicator light is always on or flashing.

3、 Network indicator

The indicator is for the connection of LAN1, LAN1 and external network, when the external network access normally, the indicator light is always on or flashing.

4、 Network indicator

The indicator is for the connection of switch data and switch card, when the switch data card work normally, the indicator light is always on or flashing.

5、 Network interface

Connect the host and the external network

6、Network interface 2

Connect the host and the external network

7、CH1-CH10 zones indicator

Zones indicator for the network connection of CH1-CH10 and switch data card, when it has the network connection, the indicator light is always on or flashing.

Features:

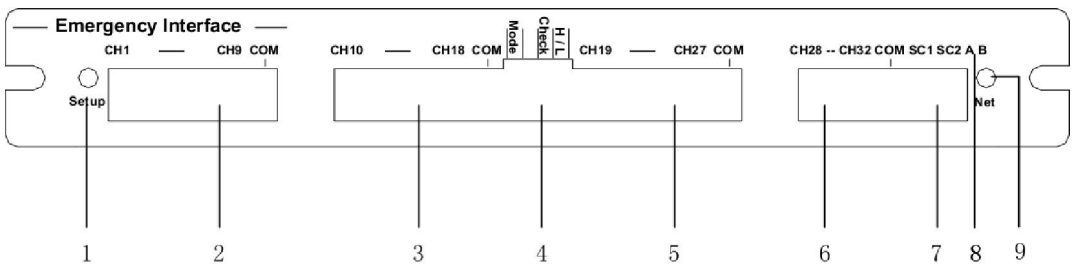
- Network data switch amplifier connect stand-by card of the host to exchange the network data.
- The bandwidth requirement : 100Mbps/1000Mpbs；
- Double back-up amplifier, the stand-by card can replace the bad one

2.8 M-6416 32 way fire fighting linkage network module

2.8.1. Features:

- The interface between the network PA system and fire control center.
- Once receiving fire alarm signal form fire center, it will automatically activate the corresponding working area of the networked PA system to force the insertion of emergency broadcast status
- There are 32 fire trigger channels for each machine, setting through the host, the alarm zone of each channel can be combined randomly
- Each alarm channel has the function of fault detection, inspect the system line fault automatically
- Multiple machines can connect to the network by the same system, the control area can be extended randomly

2.8.2. Appearance Description



1. Setup indicator

When you can't find the parameters of this module, when the IP is not clear, pull the "Mode" key down and this indicator is on, The parameters is return to the following specific parameters:

IP：192.168.16.2 GATE：192.168.16.1 Mask Code：255.255.255.0

Master server IP：192.168.16.250 Standby server IP：192.168.16.251

2. Alarm signal input interface

CH1-CH9，alarm signal input interface，COM is a common port。

3. Alarm signal input interface

CH10-CH18，alarm signal input interface，COM is a common port。

DIP Switch

Mode: When you can't find the parameters of this module, when the IP is not clear, pull the "Mode" key down and this indicator is on, The parameters is return to the following specific parameters:

IP：192.168.16.2 GATE：192.168.16.1 Mask Code：255.255.255.0

Master server IP：192.168.16.250 Standby server IP：192.168.16.251

Dial back Mode will return to previous parameters

Notes：Only one type of machine can set to 'mode' when it is one the same network, otherwise the IP will conflict.

Check: Line detection switch. This machine has line fault detection function of 32 channel. Pull the switch down to start the line detection. (Set the independent channel refer to "Configuration of fire detection function" on Chapter 4). If the line detection is needed, the 47K drop-down resistance box is needed to open the line detection channel

Note：When the sound "DI" of this module is relative long, it means the connection with the external line is not good. When the sound "DI" of this module is relative hurried, it is the alarming.

H/L: When the input logic set switch is **H,** level trigger mode; When the switch is **H,** Short circuit trigger mode.

4. Alarm signal input interface

CH19-CH27，alarm signal input interface, COM is a common port。

5. Alarm signal input interface

CH28-CH32，alarm signal input interface，COM is a common port。

Notes：The alarm signal input interface can input 5V-24 V positive signal or short circuit signal 0 ohm-5K resistance

6. SC1、SC2 short circuit output

As long as there is an alarm signal input (1 channel or multiple channels), SC1、SC2 short circuit output

7. 485 communication interface

A、B is the communication interface, can realize alarm trigger with the third communication system(The using of this function should contact DSSPA's technicians

485 Protocol format：

Frame header + Source address + Destination address+ Frame header+Length+Function code+data+check code

Frame header：FE FC

Source address, destination address, frame header, function code is 1 bytes respectively, length, check code is 2 bytes. Length don't include the frame header.

CRC check code of generating polynomial: X16+X15+X2+1

The address of this alarm card ：0xFE

Function code ：

0x66 Set the alarm for all zones, and then receive 32 bytes of data. 0 indicates that the alarm is revoked, and the 1 represents the alarm.

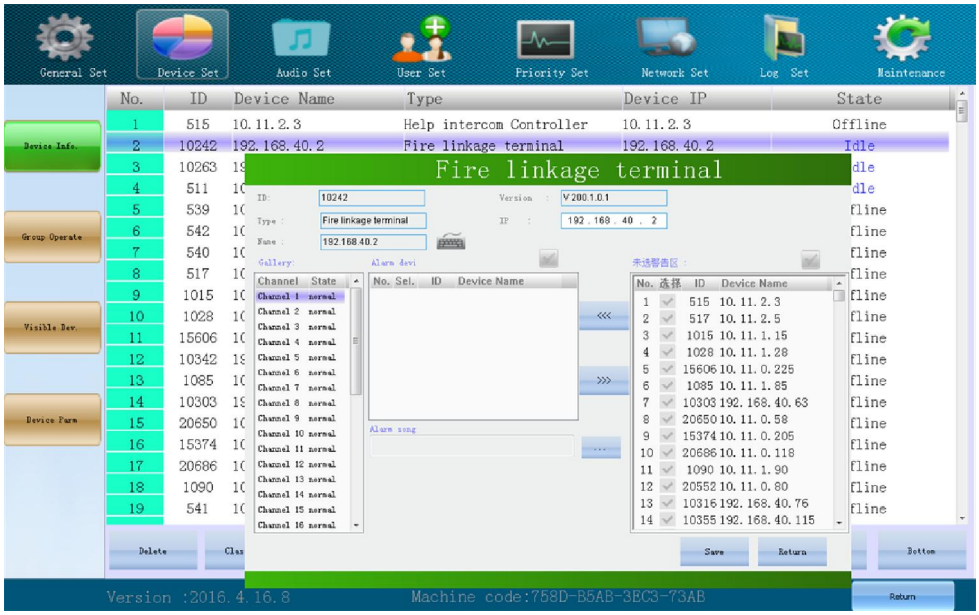
0x67 Set the alarm for single zone, and then connect 1 byte channel and 1 byte status data,C0-31 represents C1-C32, alarm status value is same as above.

8. Network indicator

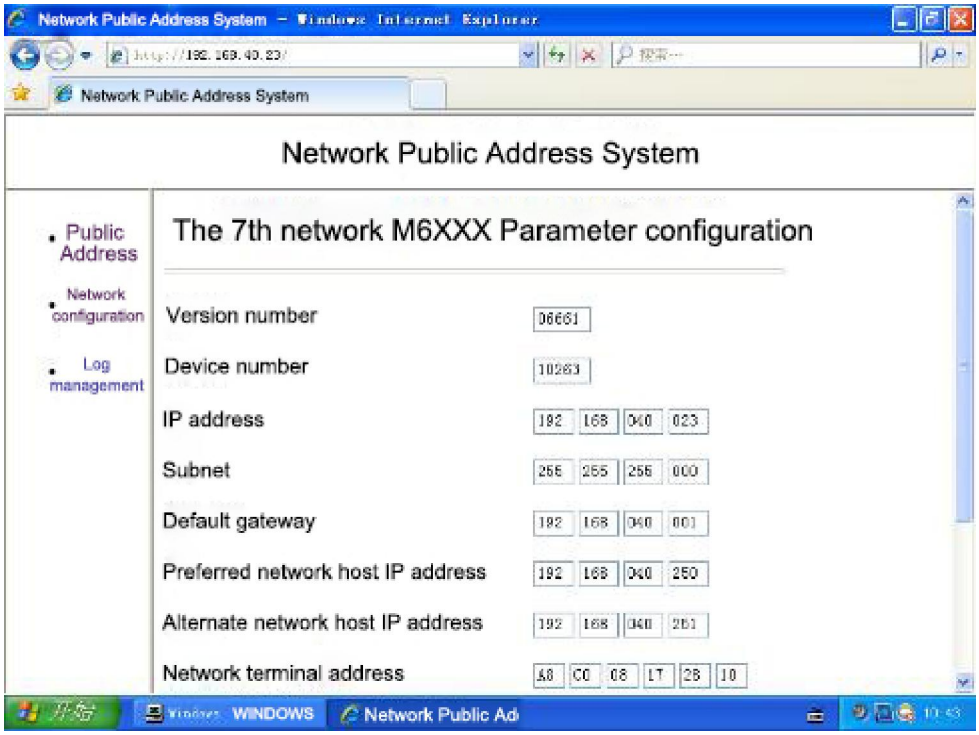
When this module goes offline, the indicator light is blue. The indicator light is in red when it is connected to a host via network

2.8.3. Operation of this module on the host:

When the extensional 32 way fire fighting linkage network module is added to the network public address system, after the module is installed and correctly wired, the user should assign corresponding IP address to the module.



If you need to modify the module IP address again, entering the corresponding IP in the browser, and then save, modify successfully



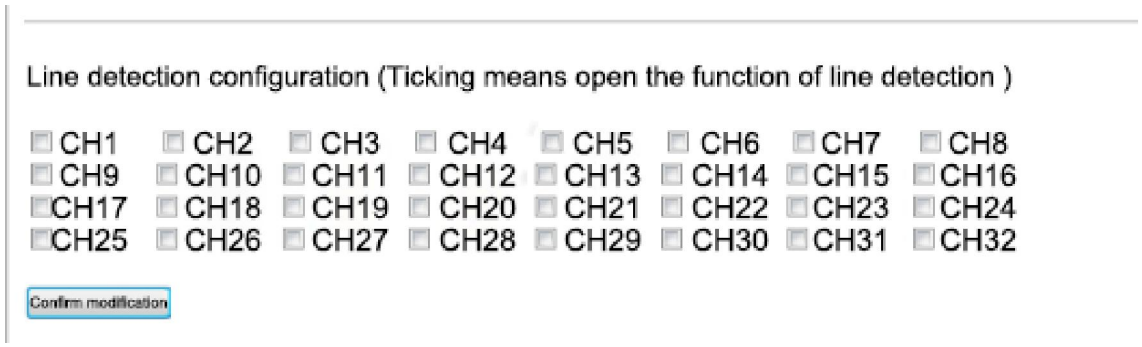
2.8.4. Configuration of fire detection function

This module has the function of fire line fault detection.。If you need to use this function, please read this section carefully.

1. If you need to detect the line, 47K drop-down resistance box is needed to open the line detection channel.

2. On the side of this module, pull down the dial-up switch to open the master switch of line detection.

3. Input the IP address in the IE browser, and then enter into parameter configuration page and find the line detection configuration, open the channel to use the new road detection function;

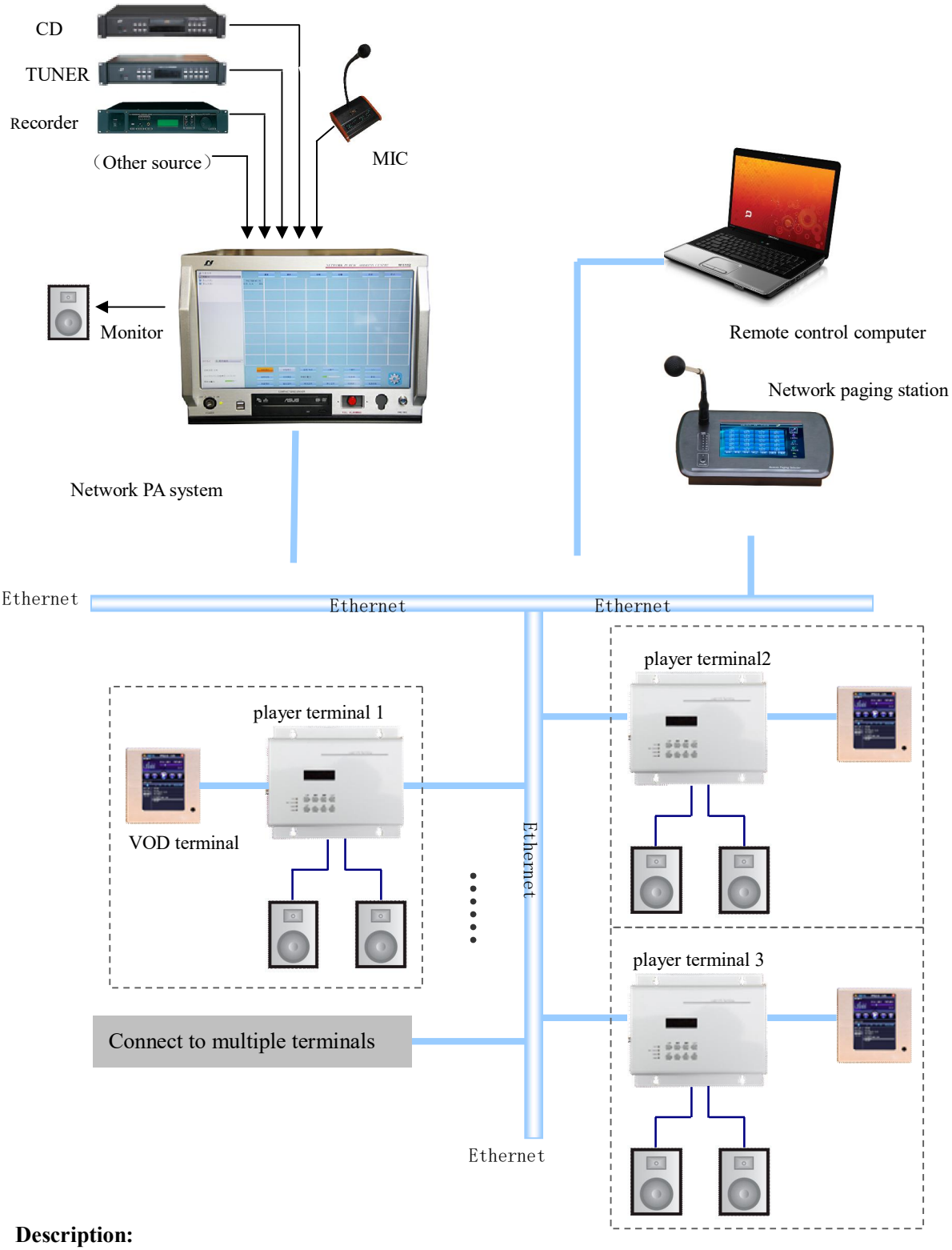


4.Click to “ confirm the modification”, and then open the function of line fault detection in the corresponding channel

5. To extend 32 way fire fighting linkage module, setting the corresponding IP address on the host for the module after finishing the installment and connection of the module. After the IP address is set up, the host and the module are connected.

CHAPTER 2 SYSTEM CONNECTION DESCRIPTION

2.1 Description of System Connection



Description:

In the connection diagram as shown above, all devices directly connected to the network must be connected to the network via network switches. Each device connected to the network requires a corresponding IP

address.

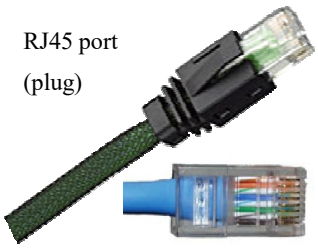
The PA device and various regular devices (audio source, microphone, monitoring speaker, etc.) are corresponded to each other. Please refer to the diagrams of front panel and rear panel for information. In order to ensure fast data transmission on the entire local area network, please connect the devices to network as shown below (see above figure (previous page)).

It is recommended that the system runs on a 100Mb or faster local area network (a local area network is also known as LAN or Ethernet). If there are a small number of terminals connected to the PA system (less than 20), the system may operate on a 10Mb LAN, with slightly negative influence on performance. Better performance can be realized in a network with Star-Topology than in a bus topology network. It is NOT recommended to establish the network by using network hubs (HUB). (HUB provides the same functions as a network switch, but the speed is limited.)

In most cases, the PA controller is firstly connected to uplink port of an Ethernet switch, with ports on the Ethernet switch linked to the terminals or UPLINK ports of other switches in the Ethernet. Other switches may connect more terminals or UPLINK ports of even more switches. In this way, the network ports are extended.

Refer to the following picture for common network cables and ports used in Ethernet: (taking 100Mb Ethernet as an example. The picture is only reference and we will not provide any network equipment. If required, please consult your network equipment supplier.)

RJ45 port
(plug)



Ethernet switch
(with several RJ45 ports)

RJ45 cable

2.2 Main functions of subsystem

- The system provides 4 types of audio sources:
  a. Emergency microphone (EMC MIC) on panel: It is for general purpose paging or for temporary delivery of emergency evacuation directions in case of disasters or accidents.
  b. Internal Chine/Alarm (CHIME/ALARM): It is for use to insert timetable announcements. In case of catastrophic accidents, the operator should press "Full Zone Alarm" or "Selected Zone Alarm" button, to deliver preset alarm and to manually deliver disaster warnings;
  c. Inner CD (INNER CD) and inner special audio source (MUSIC SOURCE): They are for use as

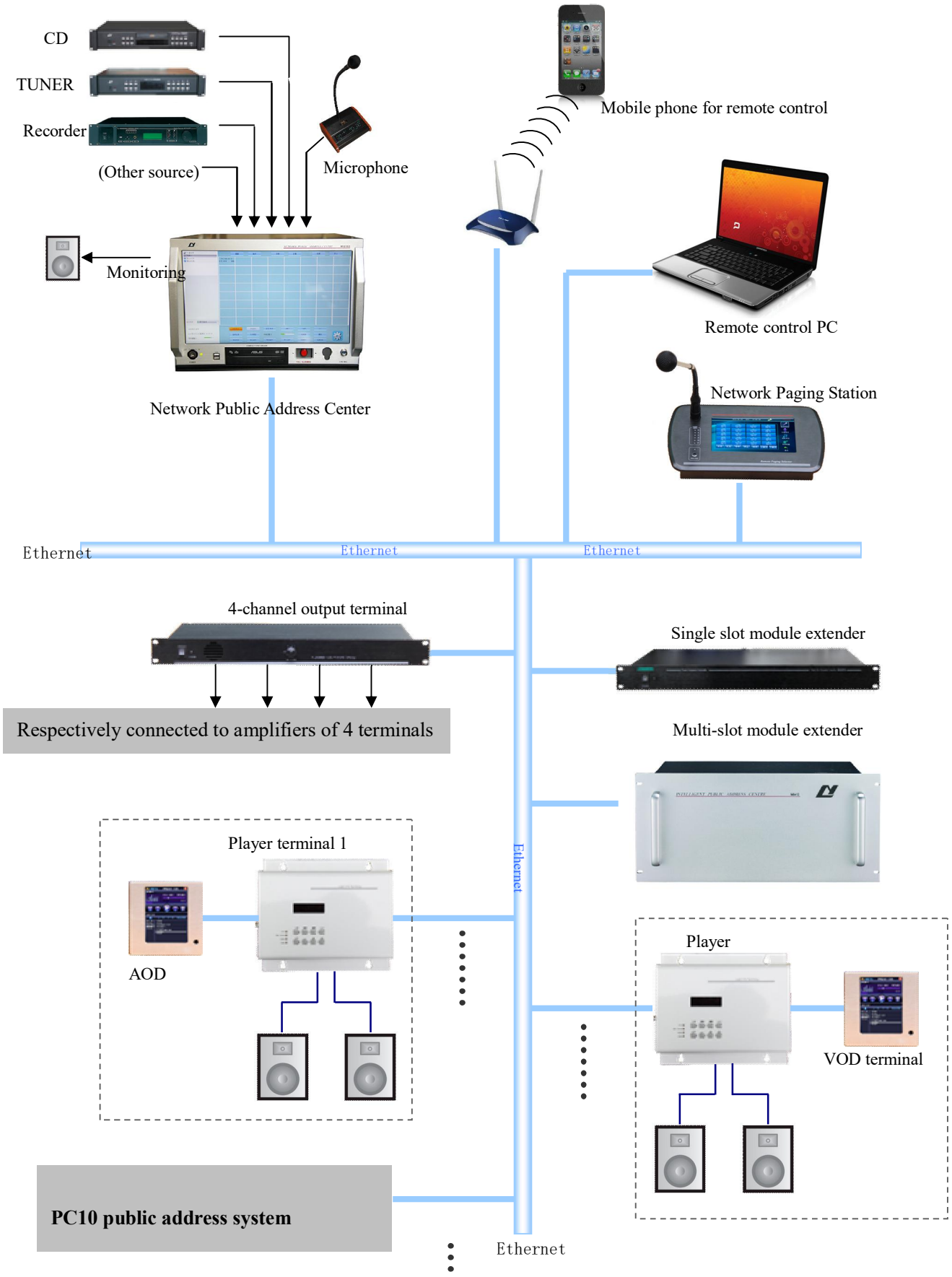
background music.

- The system provides 4 audio input ports, which may be connected to 4 external audio sources as background music.
- A basic system has provided zone specific real-time or timed background music, paging, manual alarm, and energy efficient operation functions. In addition, it also supports program on demand or paging on the PA terminals.
- Only one type of terminal is used in a basic system: **Network player terminal**. It supports 30W output and provides line output ports to extend the power output. VOD terminal control panels are optional.
- It provides remote PC control functions.
- It can be connected to a network paging station to realize remote paging function.
- A system can support infinite number of terminal connections.

Hints:

When the public address distance is very long, it may be considered to use an Ethernet relay or to transmit via optical fiber. If optical fiber transmission is selected, an Ethernet switch with optical fiber interface may be used, or otherwise, a RJ45 to optical fiber port adapter may be used to convert electric signals into optical signals for transmission. For details, please consult your network equipment supplier.

2.3 Typical System Connection Diagram



In order to improve the system reliability, a backup device is configured in the PA controller, which may be automatically switched between the master and backup devices. During system operation, if any failure occurs to the PA system, it will automatically switch to the backup device without interrupting system operation. All peripheral devices of the PA controller are connected to the master/backup switcher.

The system provides various public address terminals, such as a single-channel terminal with MP3 player functions and four-channel terminals without MP3 player functions, which have added to the system functions such as multiple paging, program on demand and remote control.

Other PCs (remote control): Remote control software is optional for purchase, which realized authorized remote control over the PA controller via a PC of the user. Besides, a mobile phone may be connected via WIFI to realize wireless paging and VOD operations. For details, please refer to the User Manual of such remote controller software.

Module extension box: This system is equipped with single-slot module extension box and multi-slot extension boxes for installation of additional modules, and through extensions, it also provides audio sampling and telephone paging functions. For details, please refer to User Manual of the extension box and additional modules.

2.4 Main functions of typical systems

In addition to all functions of a minimum system, a typical application system also has the following features:

- Four output terminals. One device can output audio to 4 terminals.
- With WIFI, the system can realize remote paging of mobile phone, zone based control and program on demand operations.
- Several function modules may be integrated to the system through single-slot or multi-slot extension boxes, such as audio sampling and phone paging functions.
- The system is extensible and may be used, together with PC10 peripheral systems to build a more extensive public address system.

Chapter 3 Operations and Setup

3.1 System start-up procedures

As described in introduction to front panel of the network public address center, a user should power on the system by using a special key and by turning clockwise. The Power LED is yellow and flickers in a while after it is powered on. Since the network public address controller is an embedded industrial computer, a self-test is required during its start-up process and various drivers need to be loaded, the start-up may take a relatively long time which is about 40 seconds. After the start-up process is finished, the controller enters its main interface (Fig. 1) and the Power LED turns green and stops flickering.

Power on the terminals during the start-up of the controller. After the controller completes start-up process, status of various terminals will be displayed on the main interface.

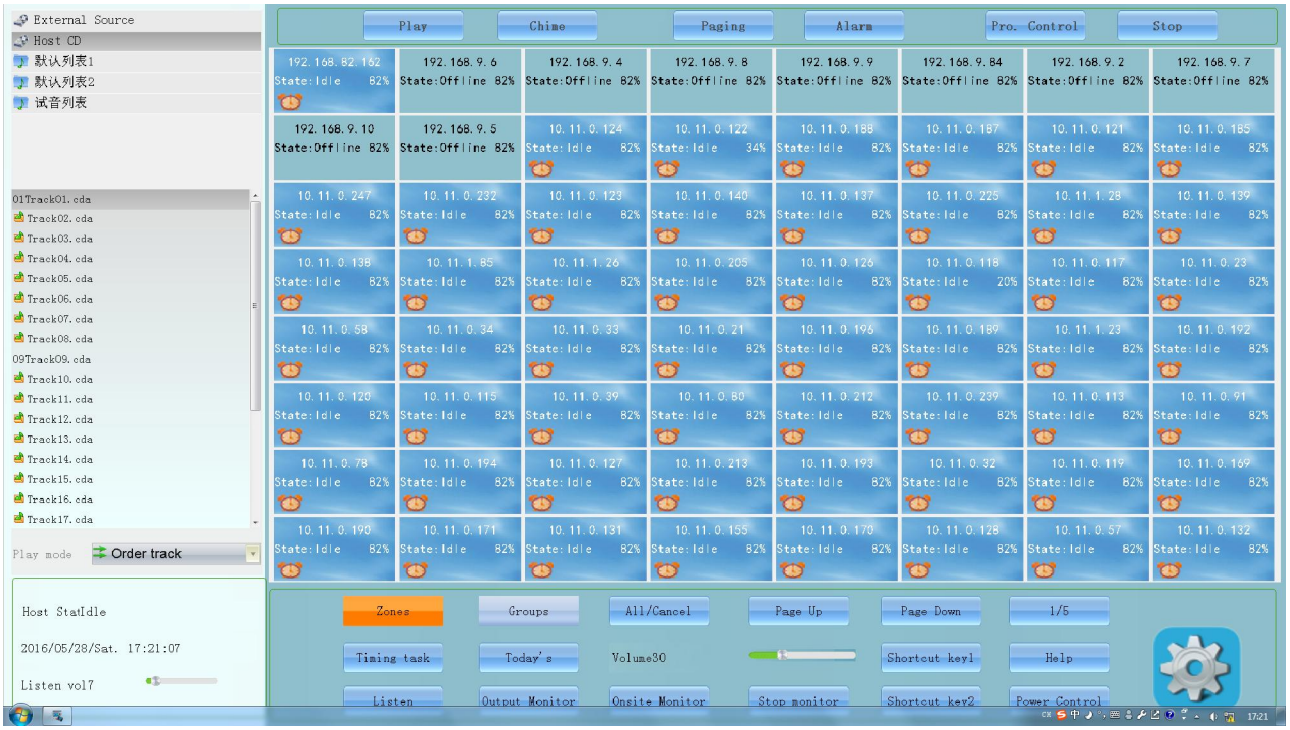


Fig. (1) Main interface

As shown in Fig. (1), items shown on the main interface mainly include zone status and items to be operated frequently as well as basic status of the system. Functions on the main interface mainly fall in three categories:

View system status: On this interface, the user can view status of each zone as well as the type and content of each audio source and can view status of peripheral power sources;
Play a program in each zone: The user can designate the background music of each zone and can insert chime or paging, and can monitor the status of each zone and adjust its volume level;
Other common manual operations: The user can deliver fire alarms and control the 4-way output power source and try the audio programs played.

3.2 View System Operating Status

3.2.1 View Zone Status

As shown in Fig. (2), the title of each zone is shown on topside of each zone (users can edit the titles), in terms of zone status, blue color indicates that the terminal is currently online while gray color indicates that such terminal is currently offline. A user can touch a target zone to select it and when a zone is selected, red color is shown inside the border of such zone.

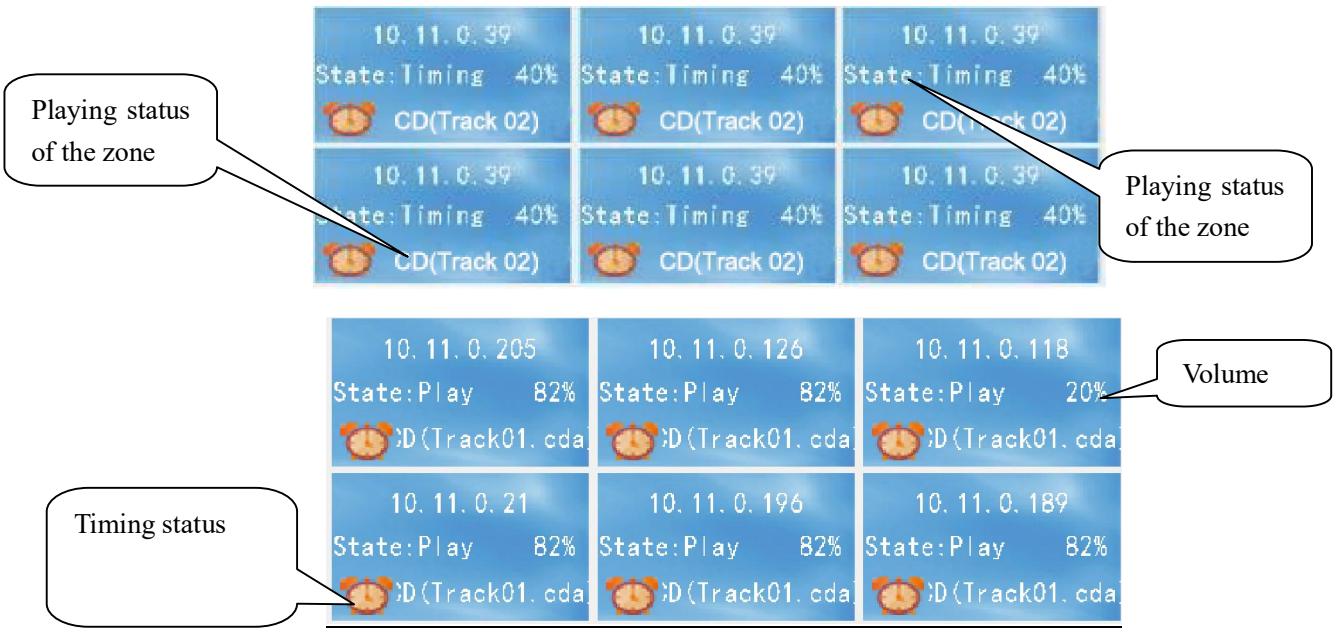


Fig. (2)

There are two lines of prompt messages under the zone title. The first line indicates playing information: program name when background music is played; "Paging ..." is indicated when paging signal is received; "Incoming call" is indicated when there is an incoming phone call; the chime name is shown when any chime is inserted; warning message is shown when an alarm is played; "Warning Card Alarm" is indicated in case of an alarm.

The second line shows status and volume level of a timing point. Status of timing point is indicated by "Run" or "Stop". "Run" means that the zone is under timing control, while "Stop" means that such zone is under manual control.

Hints

After manual operation on a zone is finished, it is important to switch it back to programmed status, otherwise, the timing point will not be executed.

In the network public address system, a zone may include more than one terminal and a terminal may be defined in more than one zones. For instance, "Grade One" is included in both "Full zone of primary school" and "All broadcast zones". In addition, fire control zone and background music zone may be defined separately.

3.3 Designate program for a zone

When a program is played on a zone, the programs should be copied to the system and grouped. The operation is described in details in the section of "Source Set" of "System Setting Interface". Programs designated for a zone include: background music, alarm, emergency broadcasting, chime inserted and paging, etc. Each type of audio source has its specific output priority which is as shown below:

Controller paging	Level 1
Zone alarm	Level 1
Paging between terminals	Level 2
Incoming phone call	Level 2
Chime	Level 3
Background music	Level 3
VOD on terminal	Level 4

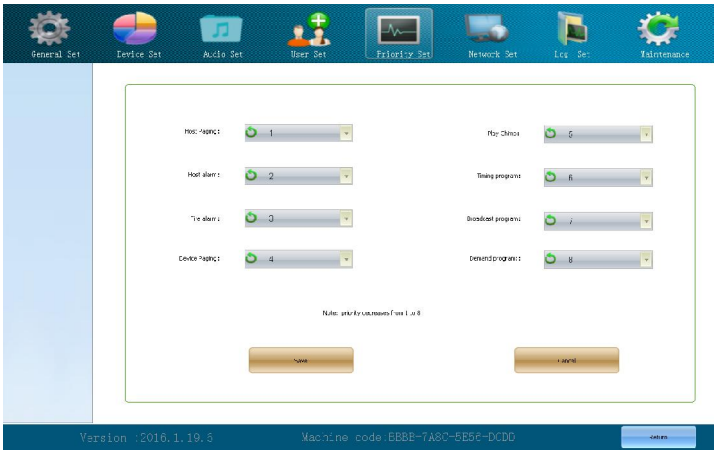


Fig. (3)

3.3.1 Designate program or program group for a zone

Instructions as to designating program for a zone is as shown in Fig. (4) below:

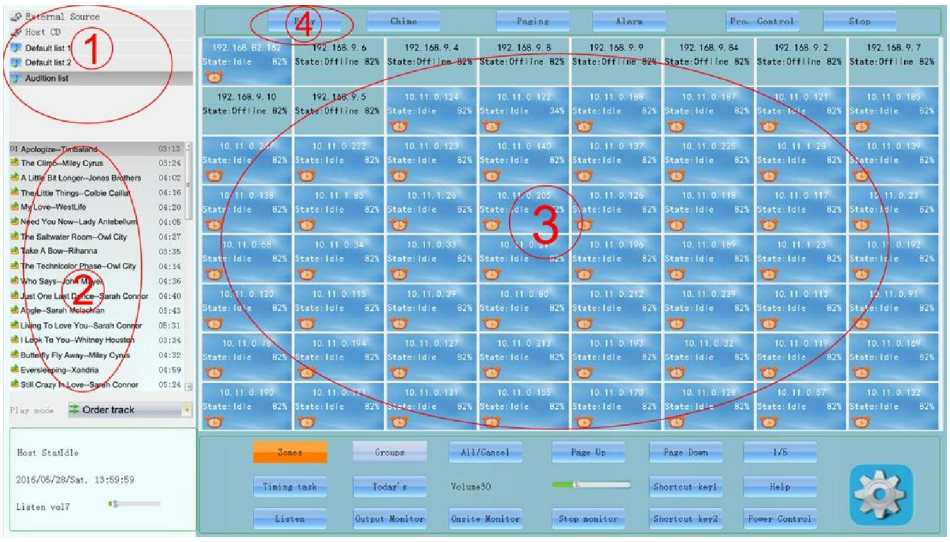
Step 1: Choose an audio type in Source Selection ① and all program under such type will be displayed in the list box;

Step 2: Choose a program from program list ②;

Step 3: Touch the zone where the program is to be played in the Zone column ③, and the border of such zone button turns red;

Step 4: Touch "Play" button in Zone Operation Column ④, to play the selected program in such zone.

This system may play a single program or a user customized program set in a zone, in this a play list will be generated and more than one program will be played continuously. According to the methods above, the user may play a zone-specific program on each zone.

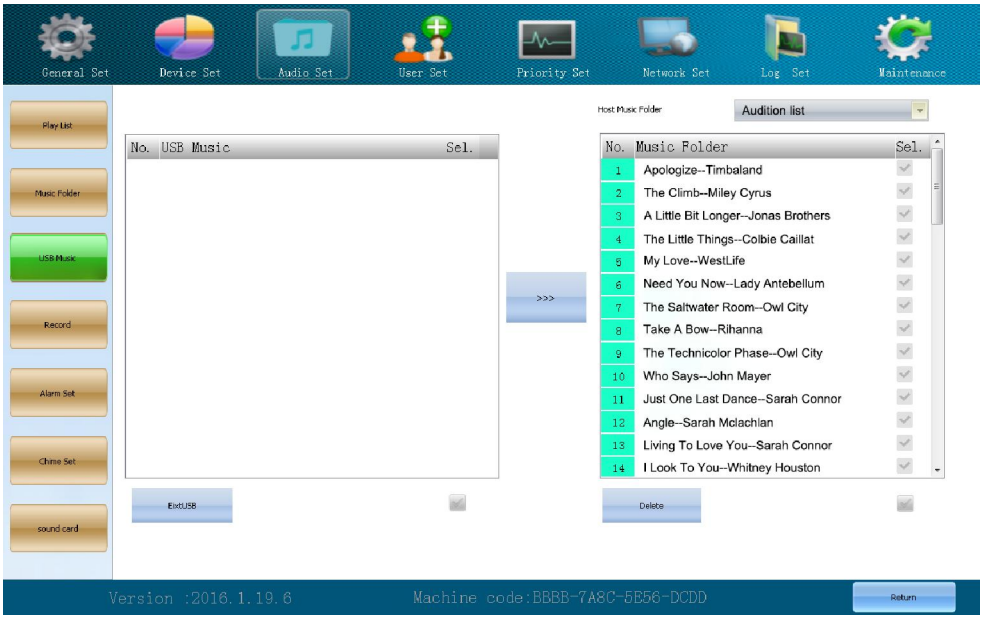


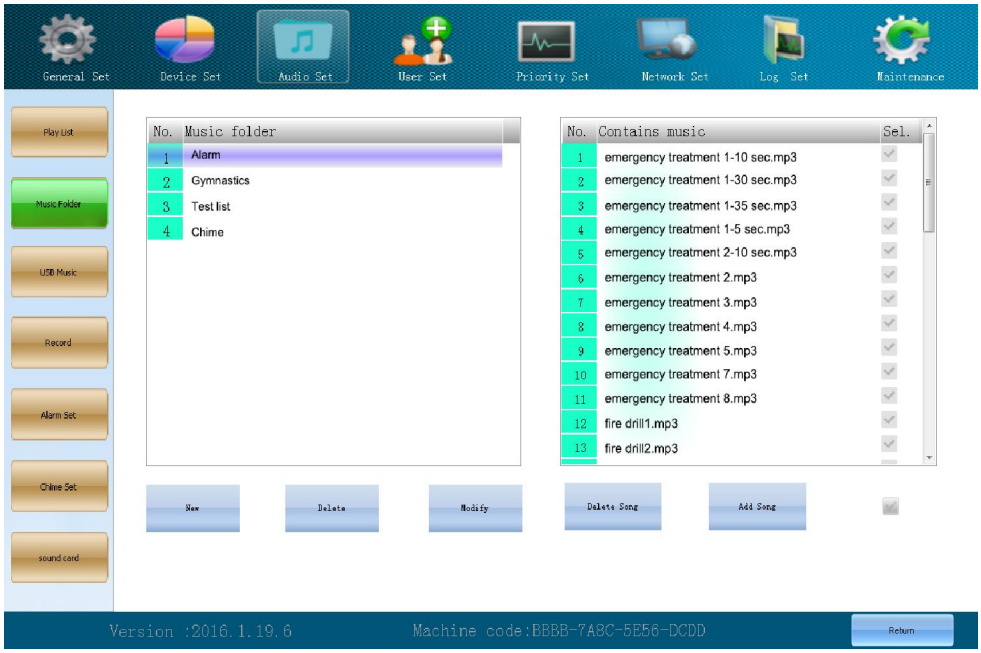
Major operating items on main interface

In Source Selection column, select “U-disk songs” Program, insert the “U-disk”, it shows “U-disk ready”, and copy the songs to the host, as shown in figure (5):

Step 1：Select the songs you want to copy, select host music catalog type;

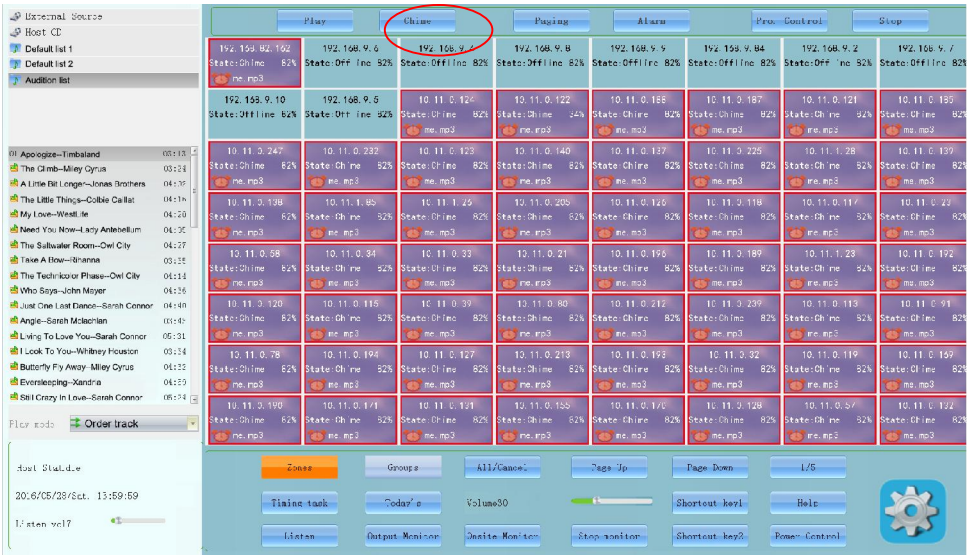
Step2: click button，and copy successfully. The sons will display on the catalog of the host





3.3.2 Chime

Select the terminal zone to play the chime, click “Chime” to play it, click “Stop” to stop the playing of the chime. As shown in figure (6)



figure（6）

3.3.3 Host to paging the zone

When the controller attempts to paging a zone, the user should firstly insert a microphone into "EMC MIC" jack and turn on the microphone, and then touch the zone to be paged. Then the user should touch "Unit.P" button in Paging Term, and start the broadcasting. After the paging is finished, the user should touch "Stop" button to deactivate the zone or have it restored to the status before the paging operation. As shown in figure (7)

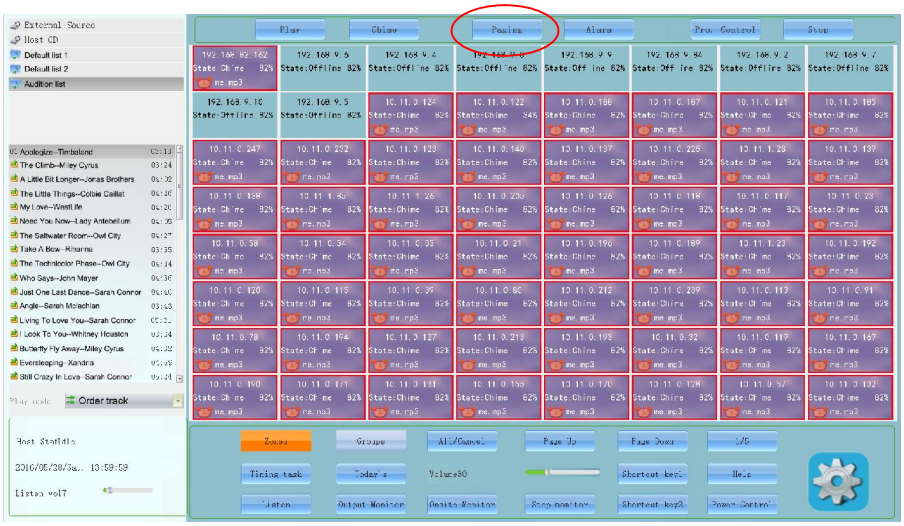


figure (7)

3.3.4 Alarm

Before manual alarm operation, the user should touch the "Set" button on the right corner of the main

interface to enter system settings interface. In the "source management" set the alarm sound. If don't set, the alarm will set with the default settings.

System Setup Figure：

After the alarm volume is appropriately set up and returning to the main interface, the user can touch the "Ful. A" button in "Alarm Operation" column, and a prompt window appears, as shown in Fig (8). The user can select "Yes" to deliver an alarm to all zones. After the alarm is finished, the user should touch "Ful. S" button to stop the alarm. The user may also choose to deliver alarm to a specific zone and the operating procedures are the same as those for delivering alarm to all zones.

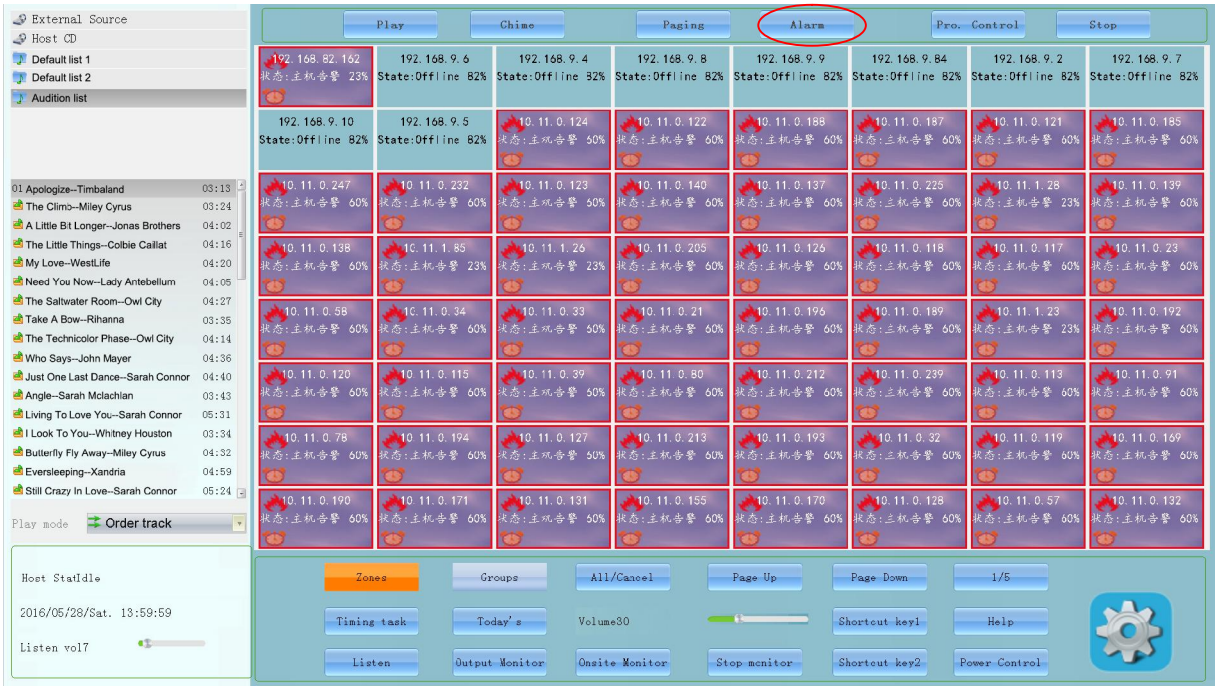


figure (8)

3.3.5 Program control

When the terminal is in timed status, select to stop the timing of the terminal, click “program control”, the clock icon turns into gray, timing work is stopped. Click “program control” again, clock icon turns back, but no timing work any more, as shown in figure (9) (10)

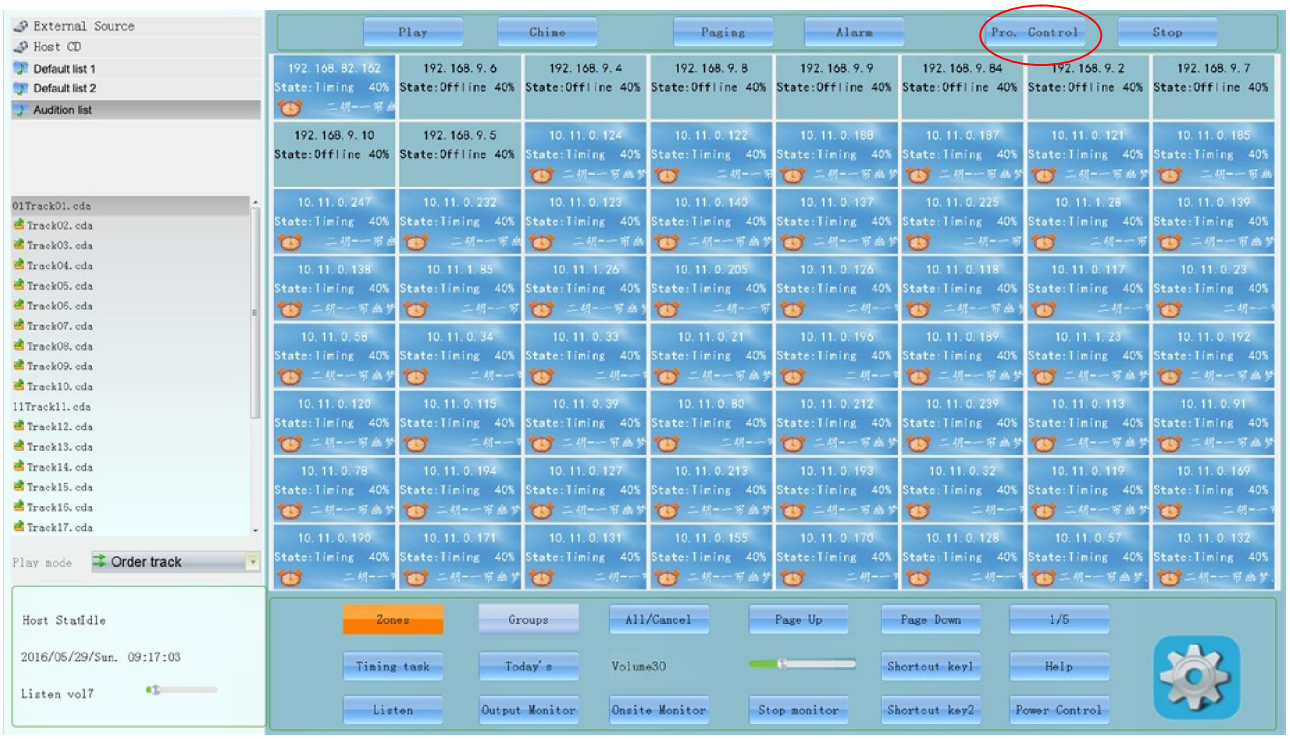


figure (9)

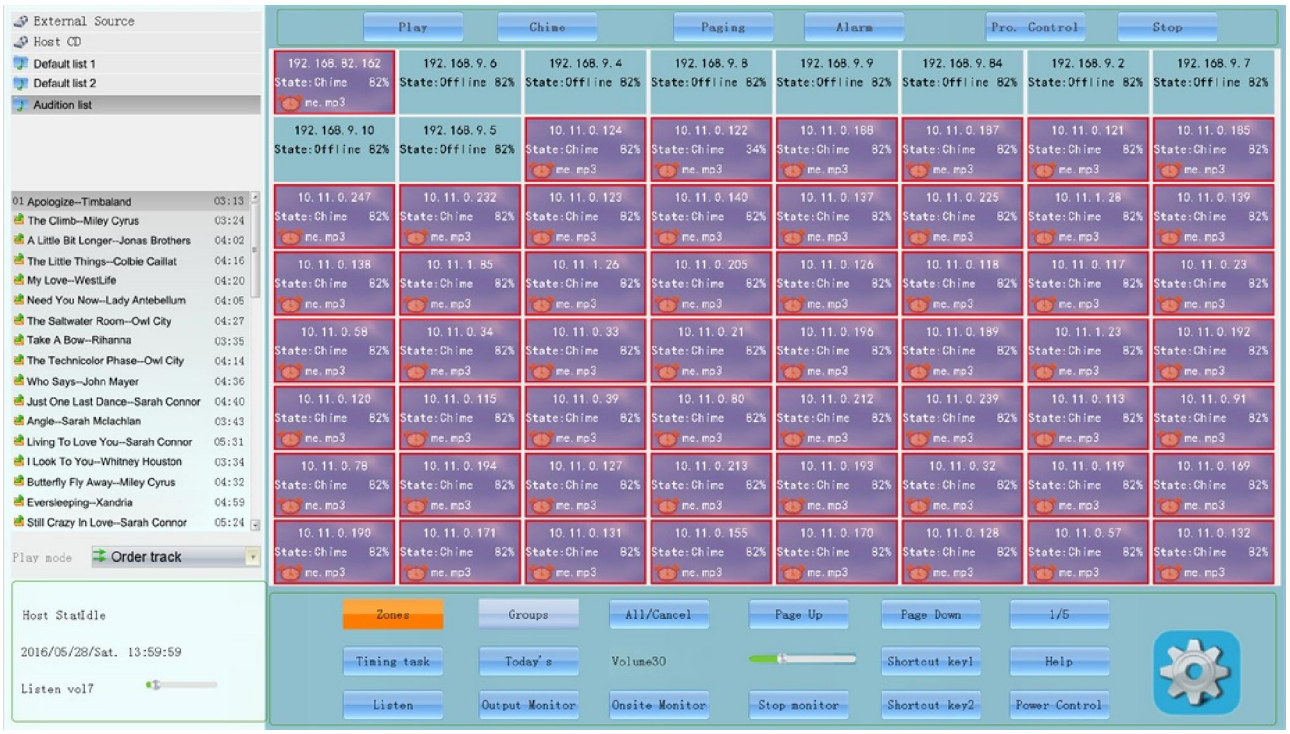


figure (10)

3.3.6 Play the built-in CD

Before playing a CD in a specific zone, the user needs to insert the CD into a CD drive.

To play the CD, the user should firstly select "Internal Source" from the audio source list and then touch a program in the list.Then the user should touch a zone where the CD is to be played, to designate the CD to such

selected zone. And then touch "Play" button to start playing. as shown in figure (11):

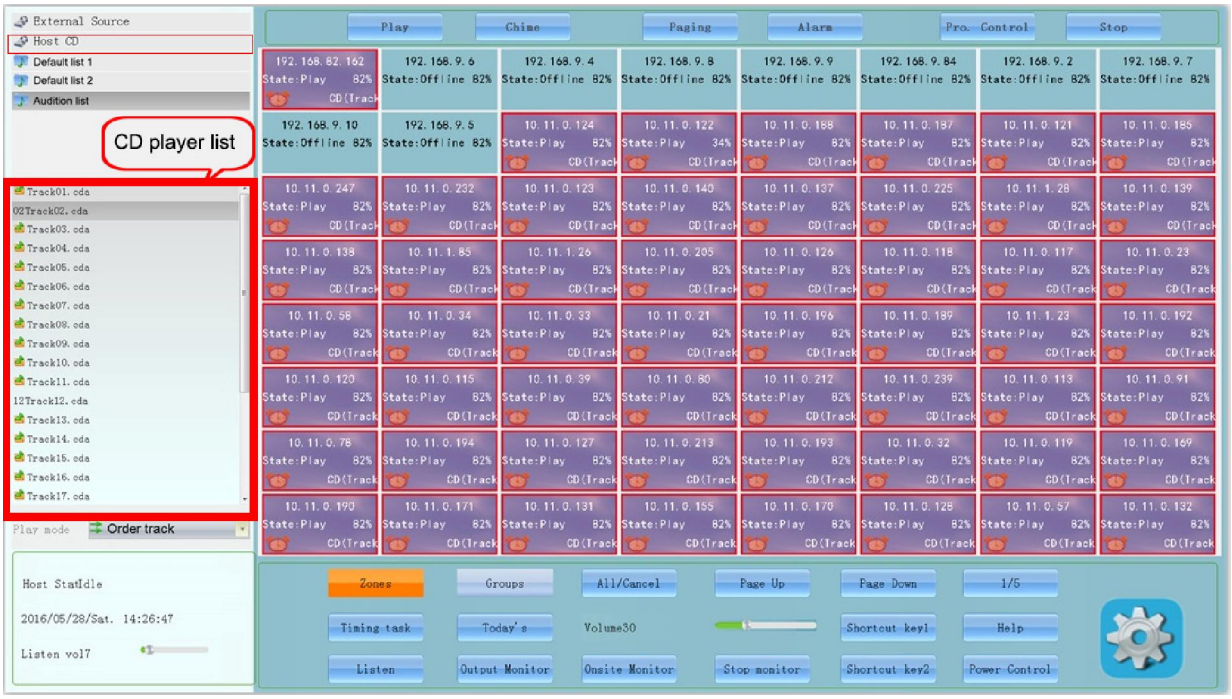


figure (11)

3.3.7 Adjust the zone volume

To adjust the volume, select the zone firstly or select "all zone"(The zone button turns into red and indicates it was selected), And then to adjust the volume in the "terminal volume" column. Touch the slide pusher to the suitable position to complete the adjustment. as shown in figure (12):

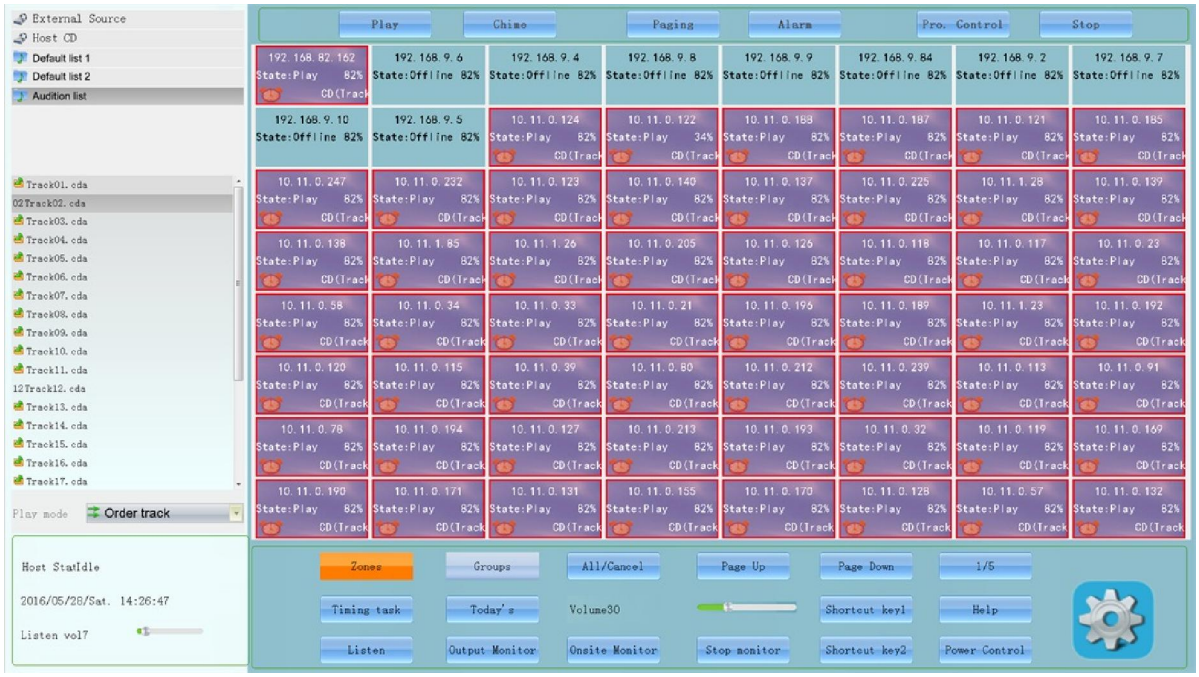


figure (12)

2.5 Timing Program Setup

Time point programming is the key to unattended operation of the system.

The user can touch "Edit" in "Timing" column on main interface to enter the "Time Program Setup" interface,

Edit timing point:

The steps to edit the timing point are as follows:

Touch the "Adding" button in "Timing program setup" column in the lower area of the interface, and an interface will pop up, as shown below. The user may set up a timing up on this interface. A timing point may be set “by cycles”, “by time” and “Special timing point”. ① By cycle means the timing will be executed in cycles in accordance with the days selected, and it need to set the start time of the timing point, the user should select desired days from a week in the column of “weekly cycle”. ② “By time” means that it need to set the range for starting and ending of the time, and it also need the specific start time point. ③ “Special timing point” has 3 timing schedules: 1. On the range of date, the added timing point “by circle” and “by time” do not perform a special time point . 2. On the range of date, the added timing point “by circle”do not perform a special time point . 2. On the range of date, the added timing point “by day”do not perform a special time point .

Fig. (13)

Fig. (14)

Set to “By time”:

1. Name the timing point;
2. Select the timing point mode with “By time”;
3. Set the start time and duration;
4. Click the “ Next step” to enter the Edit audio interface
5. Select timing type, “common type” or “ insert-cut type”; Note: “ insert-cut type” can interrupt the “common type”
6. Select type of songs
7. Select play mode
8. Select program source,Click the “ Next step” to enter Edit zone;
9. Select the terminal device zone to be timed, set the volume and click Finish, and then click “execute immediately”

Set to “ by circle”:

Set the weekly cycle, Select the timing point for a week and the starting time:

When choosing the performing week, touch and tick the performing week”

1. Name the timing point;
2. Select the timing point mode with “By circle”;
3. Set the start time and duration;
4. Click the “ Next step” to enter the Edit audio interface;

5. Select timing type, “common type” or “ insert-cut type”; Note: “ insert-cut type” can interrupt the “common type” ;
6. Select type of songs;
7. Select play mode
8. Select program source,Click the “ Next step” to enter Edit zone;
9. Select the terminal device zone to be timed, set the volume and click Finish, and then click “execute immediately”

As shown in figure (15):

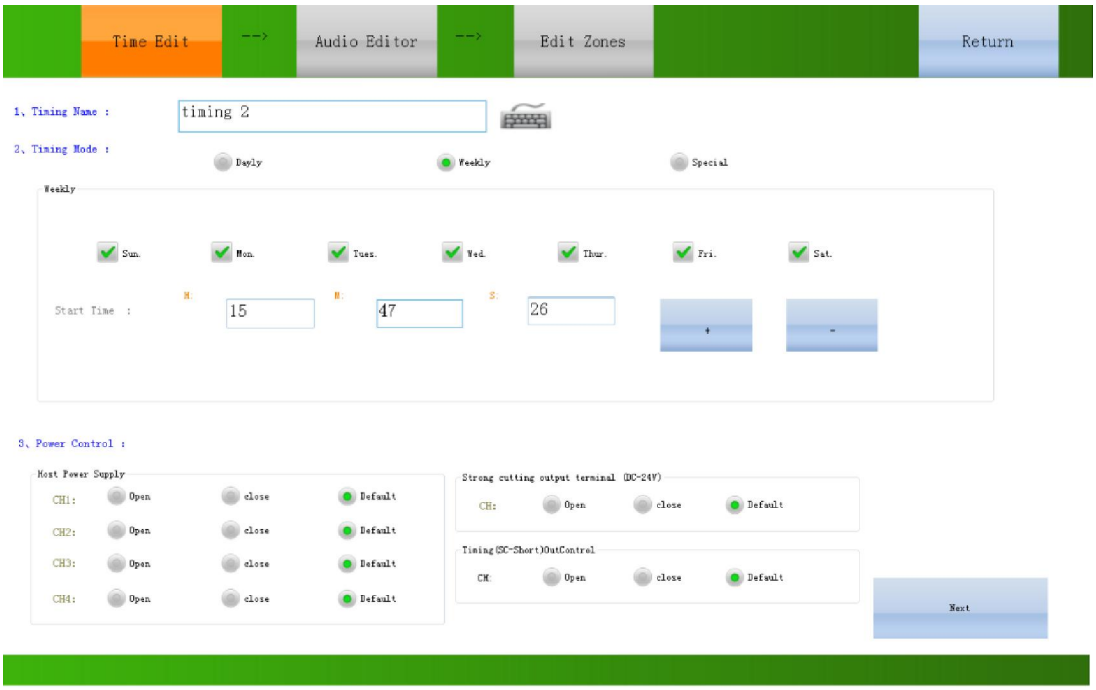


Fig. (15)

Special timing point: As shown in figure (16)

Set to “ special timing point”:

1. Name the timing point;
2. Select the timing point mode with “ special timing point”
3. Set start date and end date for the task
4. Select special timing point1, special timing point 2, special timing point 3
5. Set the power control
6. Click “Finish”

Fig (16)

Timing point operation column

Add function:

Add a new timing point;

Modify function:

Select the timing point to be modified, click “Modify”

Delete function: Select the timing point to delete, click “ delete”, delete the undesired timing point

Copy function: Select the timing point to copy, click “copy”, copy the timing point

Search function: Click “search”, it will appear a column of timing point search, input the name of timing point can search the one of the timing point quickly.

Detailed information：Select a timing point, click “ detailed information”, can view details of the timing point

As shown in figure (17)

Fig (17)

3.3.9Save or call a timing plan

"Project Setup" is to save a programmed timetable in the system as a plan for future use. There may be more than one time plans in the system. In schools, if the timetable of an odd number week is different from that in an even number week, then two plans may be made, which can be used in turn. In some regions, the timetable in summer and other seasons are different, so a various timetable may be made and saved in the system for future use. The operation interfaces for saving and calling of a time point are as shown in Fig (18、19).

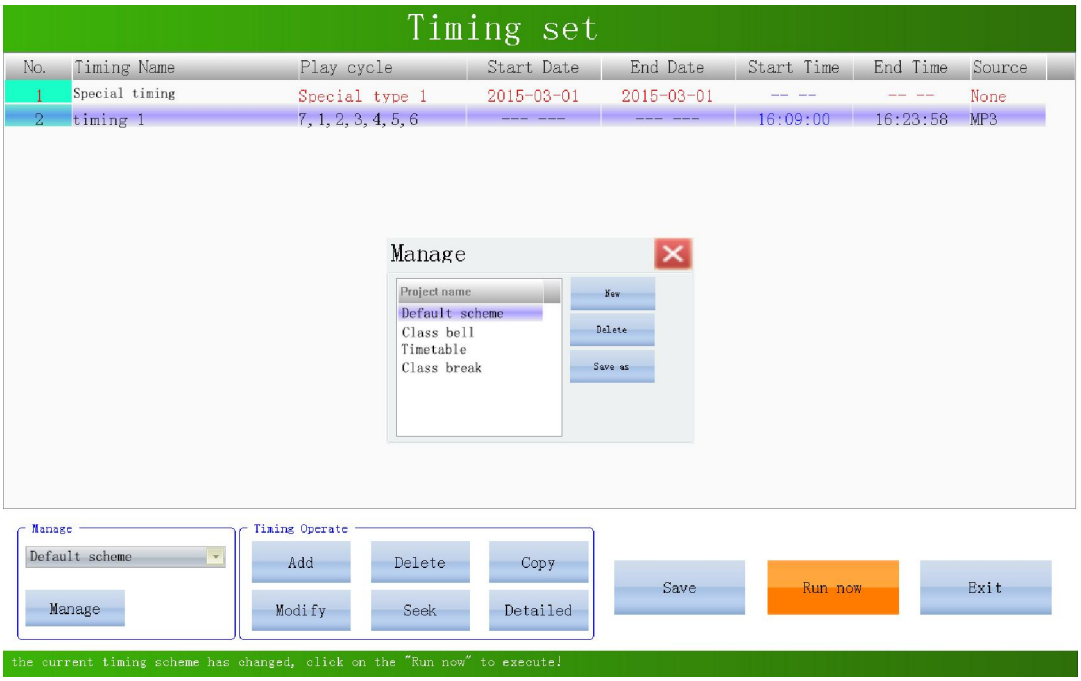


Fig (18)

Fig (19)

3.3.10 View timing information

Touch the "Today" button in the column of timing, to enter timing points viewing interface, as shown in Fig. (20). On this interface, the user can view all timing points and information of each timing point,including the execution of each timing point. Also can switch the state “forbid & start” of a timing point. as shown in Fig. (21)

For instance, in a raining day, it is necessary to cancel the outdoor radio exercise, then the user can select the timing point set for such outdoor radio exercise and then touch "Suspend" button to cancel it. If the user touches the "Resume" button after the timing point, then the timing will be set for the immediately following week.

Fig (20)

Fig (21)

3.3.11 Preview of programs

To preview programs from a certain source, the user should select a program from the list of audio sources, and then touch "Listen" button in "Vol for Zone and listening" column to preview such selected program. The user can touch "Stop" button to stop the preview.

3.3.12 To operate "output monitor" and "live monitor", select the monitor device on "Monitoring device settings" of routine setting. Click "save" to finish the operation. as shown in Fig. (22).

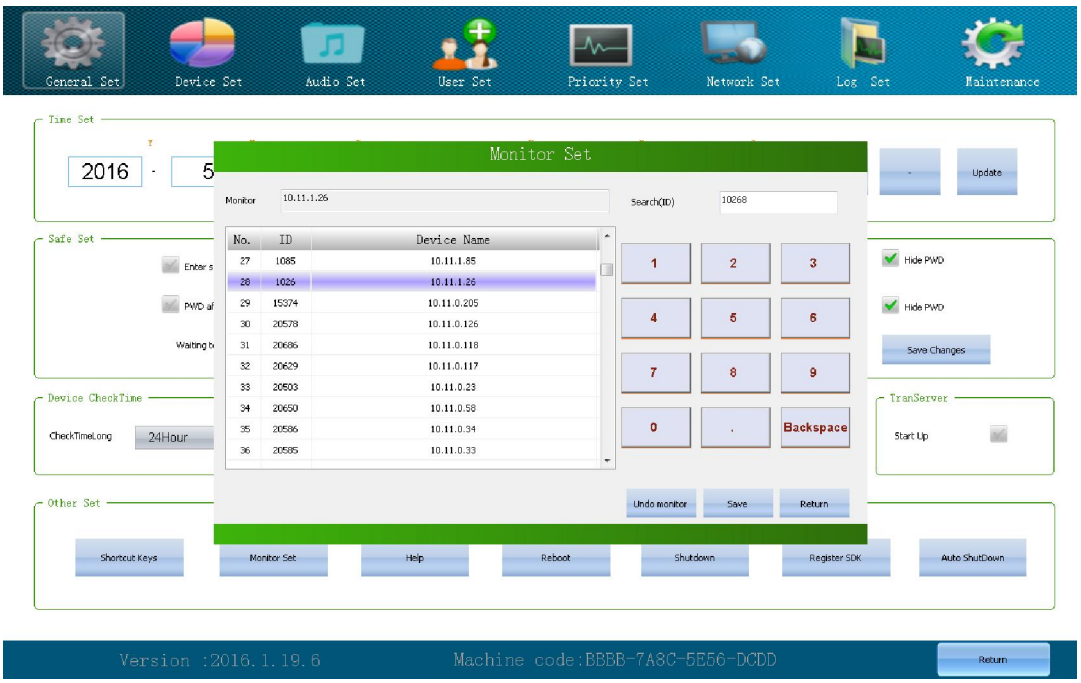


Fig (22)

output monitor:

Through the output monitor, the users know the working status of the terminal clearly

The monitoring should be idle condition, the monitored devices should be working status and then select the terminal device to monitor.

Hints: Only one zone can be monitored at a time.as shown in Fig. (23).

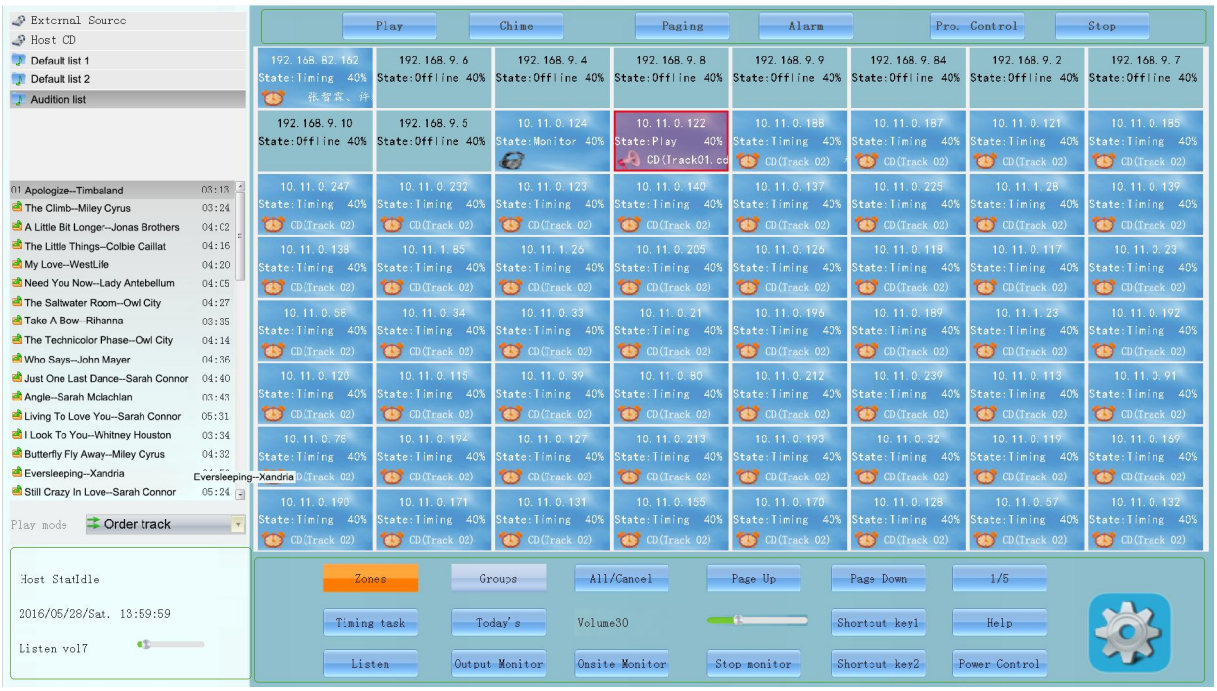
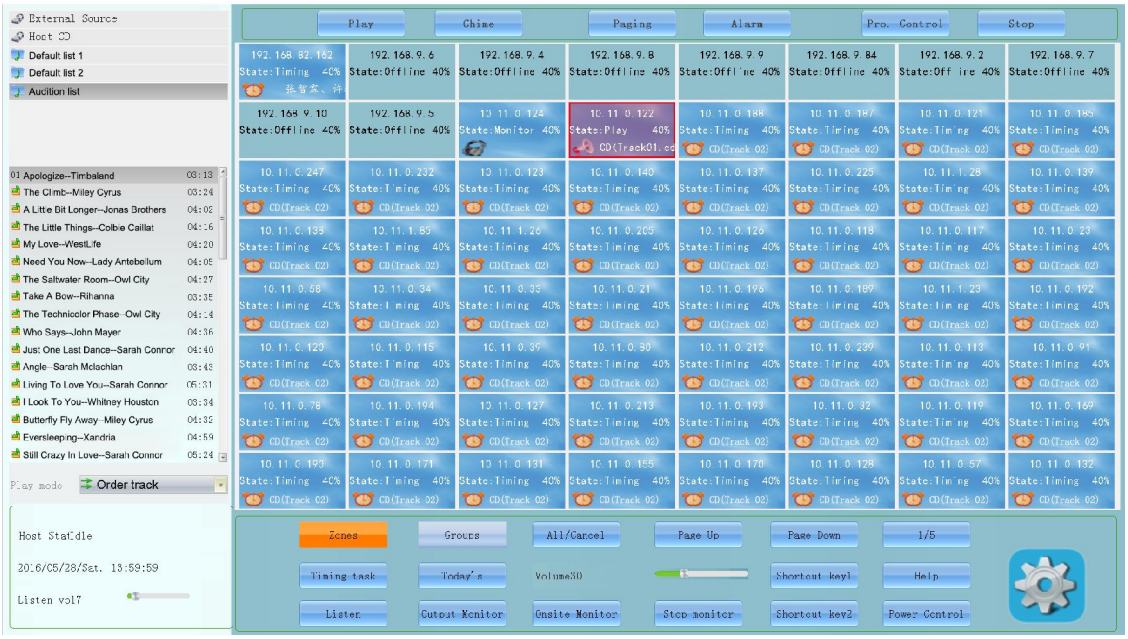


Fig (23)

Live monitor ：

Trough live monitor, the users can know the live working status of terminal

Current broadcast status, select the zone to be monitored, and then click “Live monitor” to monitor the playing status of corresponding zone. **Hints: Only one zone can be monitored at a time.** as shown in Fig. (24).



3.3.13 Shortcut key1, Shortcut key2

Click “Shortcut key settings” on routine setting of system setting, set the operation function and terminal device of “Shortcut key1, Shortcut key2”, specific operation method please refer to operation instructions of "shortcut key setting". And then click “Shortcut key1, Shortcut key2” on the main interface to start the shortcut key function. As shown in Fig. (25).

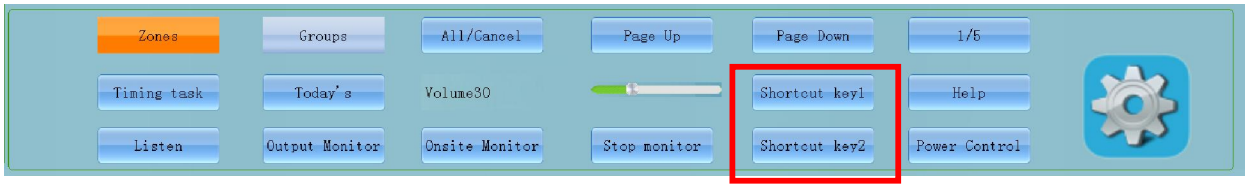


Fig (25)

3.3.14 Power Control

As shown in Fig. (26).

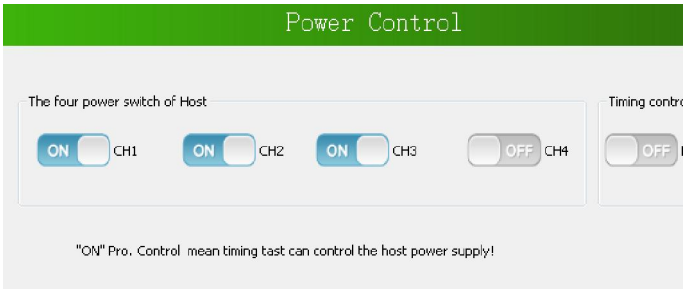


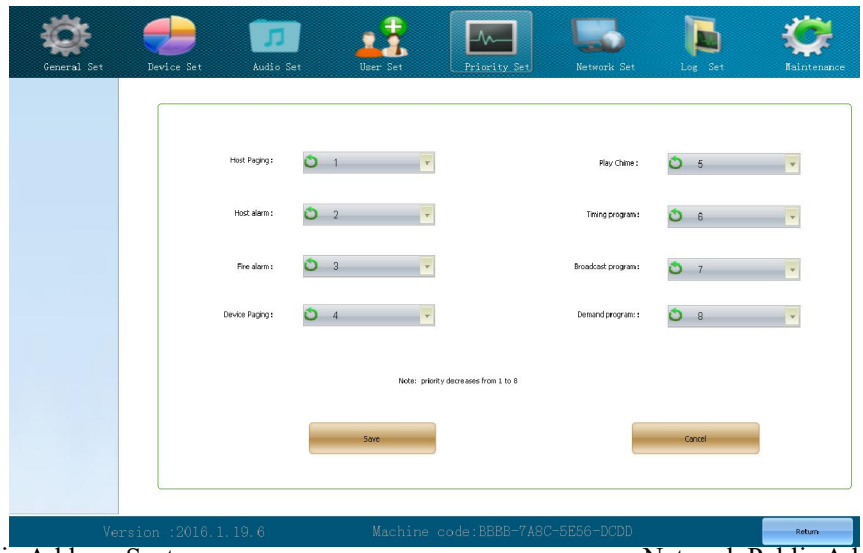
Fig. (26)

3.3.15 Broadcast priority

When background music is played in a zone, sometimes, paging, alarm and phone call signals may break in. On basis of actual needs, these signal priority is set as follows by default:

Local device paging → Fire alarm → Incoming phone call → Chime break-in →Terminal paging → background music or VOD program from controller

When a signal with higher priority attempts to break in, the signal with lower priority will be suspended or stopped and may be resume when the signal with higher priority is ended.



4. System setup

Fig (27)

The user should touch the "Set" button on the right corner of the main interface to enter system settings interface. The interface is as shown in Fig (28).

In a network public address system, all settings should be made via this window. Some of the functions on this interface requiring entering a sub-menu, including timing programming, audio source management, zone setting, extension module and phone settings;

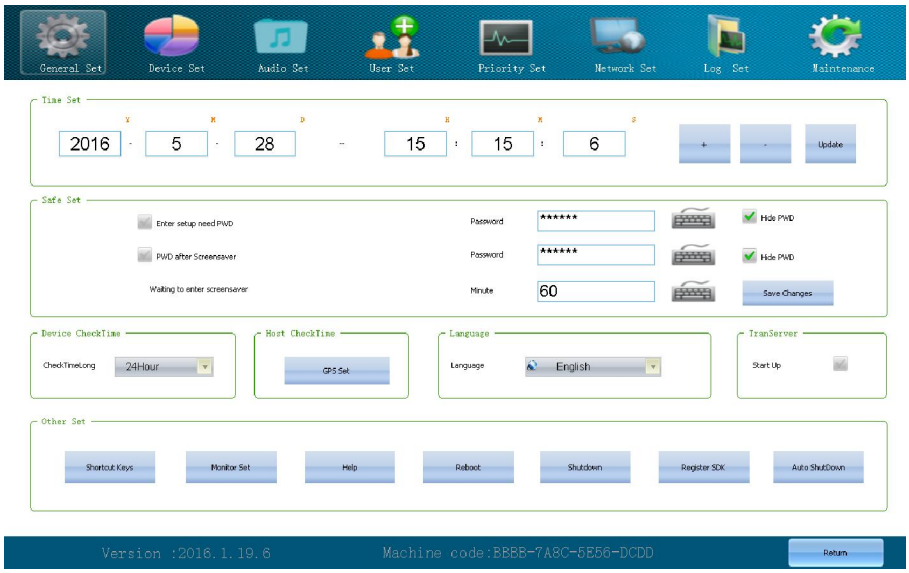


Fig (28)

4.1 Routine Setting

1. Time setting

Procedures to modify system time are as follows: The user should firstly select the item to be modified, such as year, month, date, hour, minute and second, and then touch the black arrow to the right of the time box to the desired number. After the setup process is finished, the user needs to touch "Confirm" button to finish the operations.

2. Security setting:

Click on the gray column, the function of the corresponding option works. For example: click “Enter the settings need password”, the passwords column will appear when the user click system settings icon on the interface, as shown in Fig (29)

Fig (29)

3. Device timekeeping, Host timekeeping, Language setting, Transfer server setting

Device timekeeping:

Click the gray inverted triangle icon, select the checking time of device, range from 1h-24h

Language setting:

Select the language type in the language settings column

Host timekeeping:

Input the device IP on the GPRS timekeeping device, and save it

Transfer server setting:

Tick the column, it will work after starting up the device

4 . Timing switch settings

Operate according to the steps as indicated above. The users can set the switch time according to working requirement, then save it after setting.

5. Other settings

Shortcut key settings:

Find the “Shortcut key settings” on “ Other settings” column of “routine setting” interface, lick “Shortcut key settings” to enter the operation interface, as shown in Fig (30)

1、Select “Shortcut key 1”or “Shortcut key 2”, click modify function, it will appear “Shortcut key editor”interface, as shown in Fig (31)

2. “selection function” ⟶ select “play mode” ⟶click “add device”to enter add device interface to set the terminal device played by shortcut key; Click “add songs”, enter “add source”interface, select the music catalog and then choose the songs, click “confirm”,it will turn back to “Shortcut key editor”interface, save it to complete the operation

Click “Modify name”to modify the display name of the shortcut key in the host interface

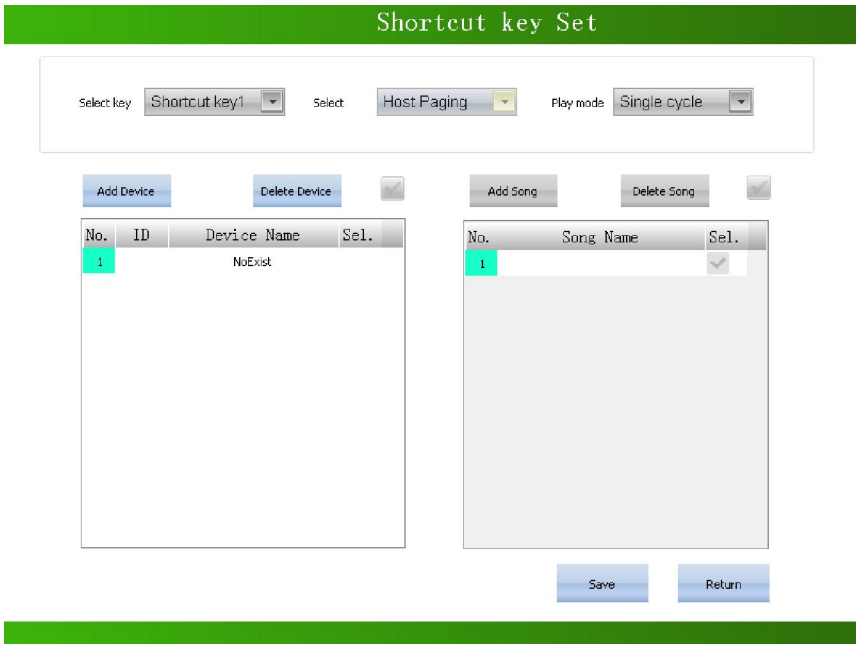


Fig (31)

Monitor Setting:

Select a device number as a monitor device, as shown in Fig (32)

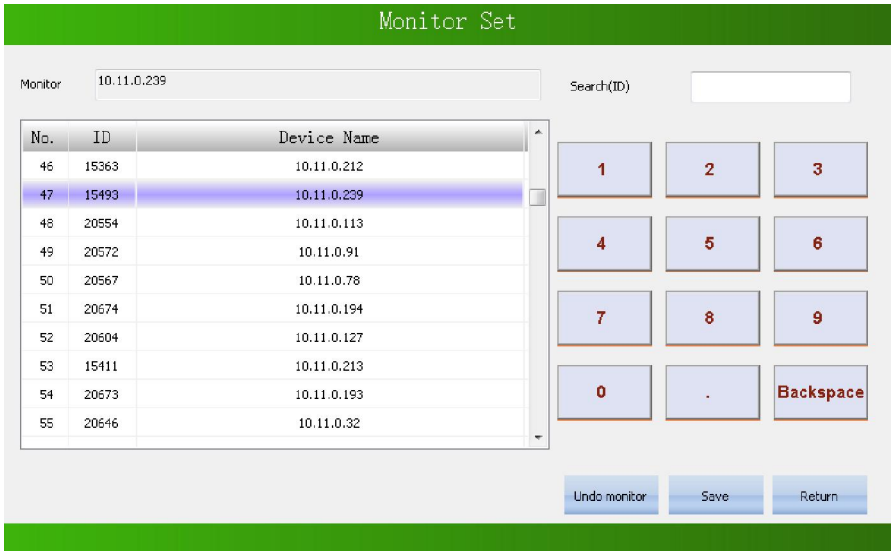


Fig (32)

Help:

Click “Help”to scan the help documents, users can click the help document to guide the operation when do not know how to operate.

As shown in the following: Catalog column on the left, Content column on the right.Find the help items on content column, click it , it will go to the corresponding content; click “back”on the right corner, it will back to host operating interface.

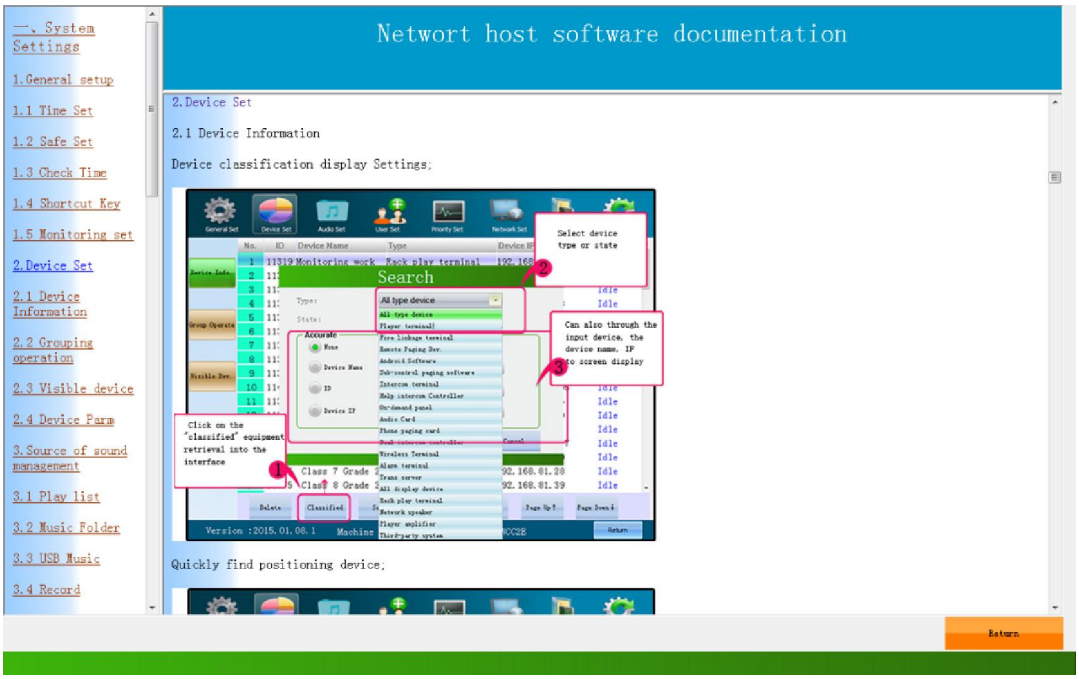


Fig (32)

Register：

Click “register”, input the registration code, As shown in the Fig (33):

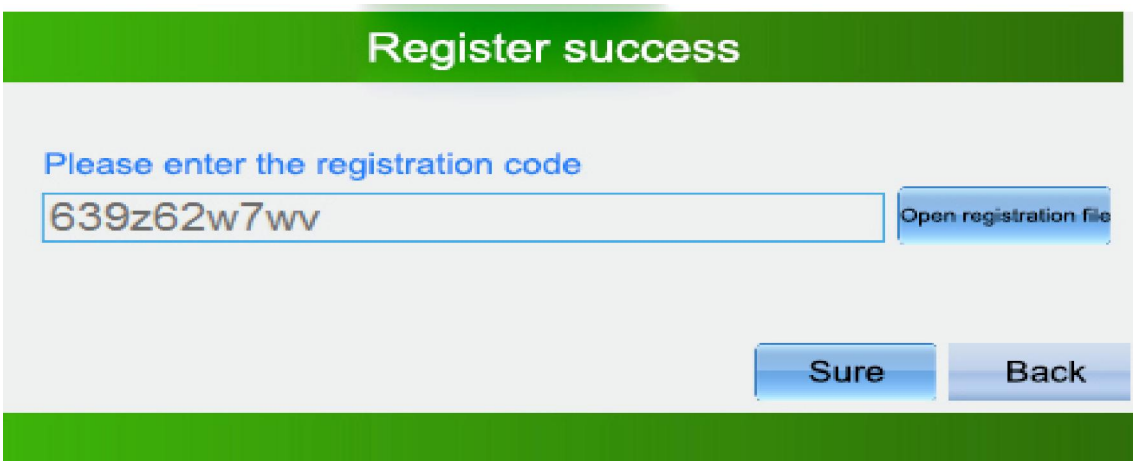


Fig (33)

Exit：

Click “Exit”, click “sure”to close the server, as shown in the Fig (34)

Fig (34)

4.2. Device management

4.2.1 Device information

“Delete” function:

Select the device to delete, click “delete”, as shown in the Fig (35):

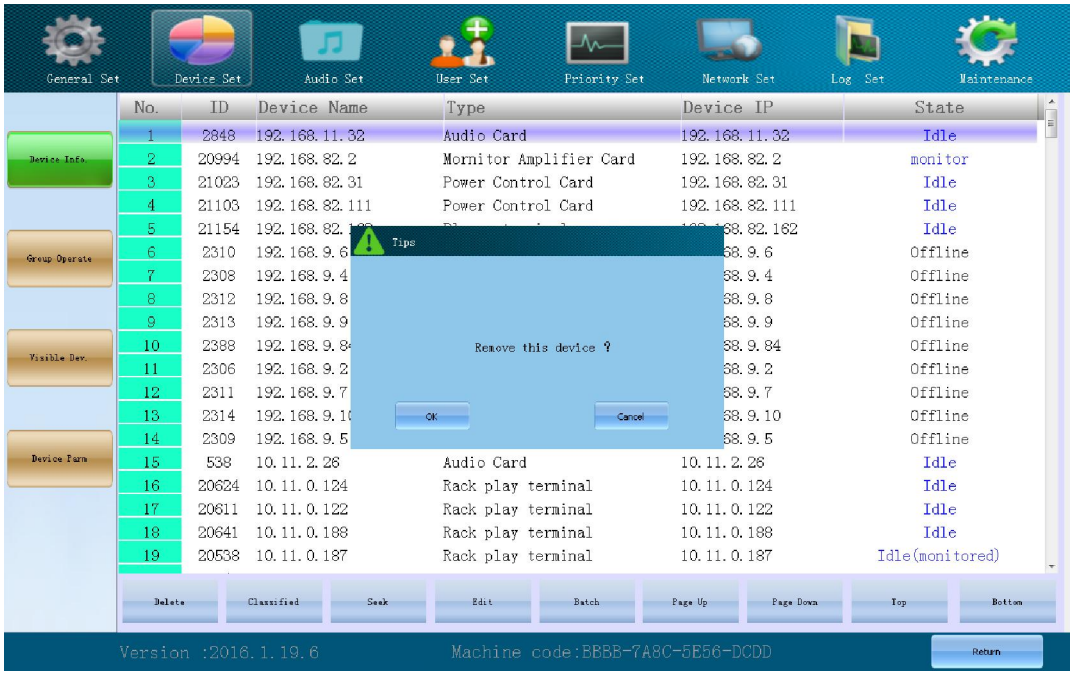


Fig (35)

“Classification display”function:

Click “Classification display” to enter the device searching interface, and classify the type of device through this function. Users can input the device name, device number or device IP to screen out the device precisely, as shown in the Fig (36)

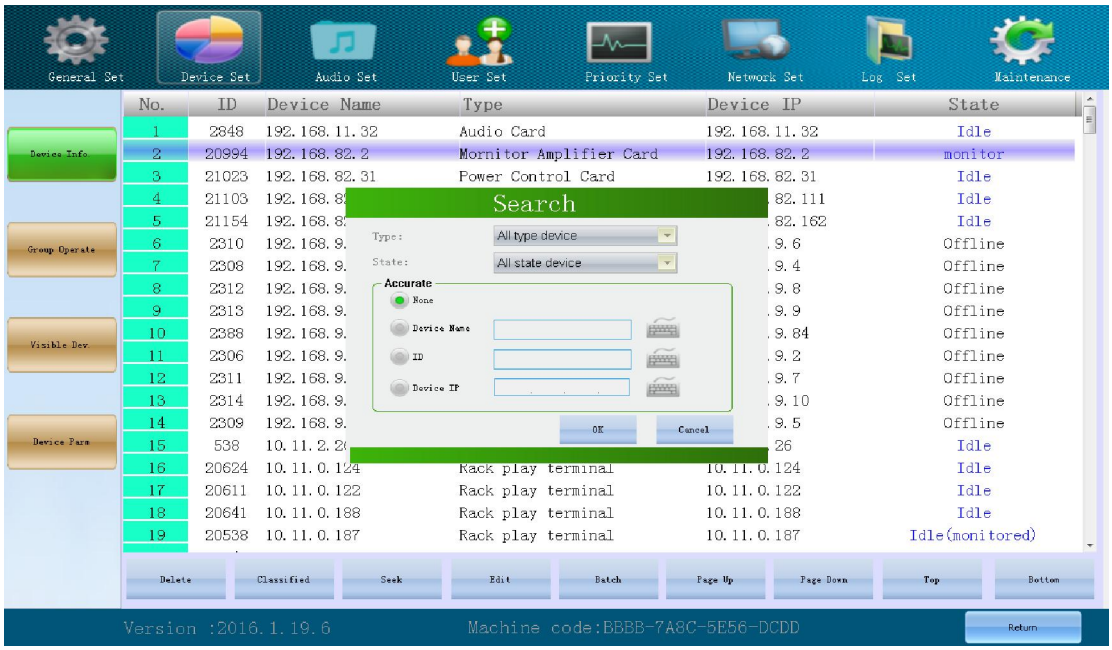


Fig (36)

Device positioning function:

Input the device number can position the sorting position of the device directly, and view the device status, as shown in the Fig (36)

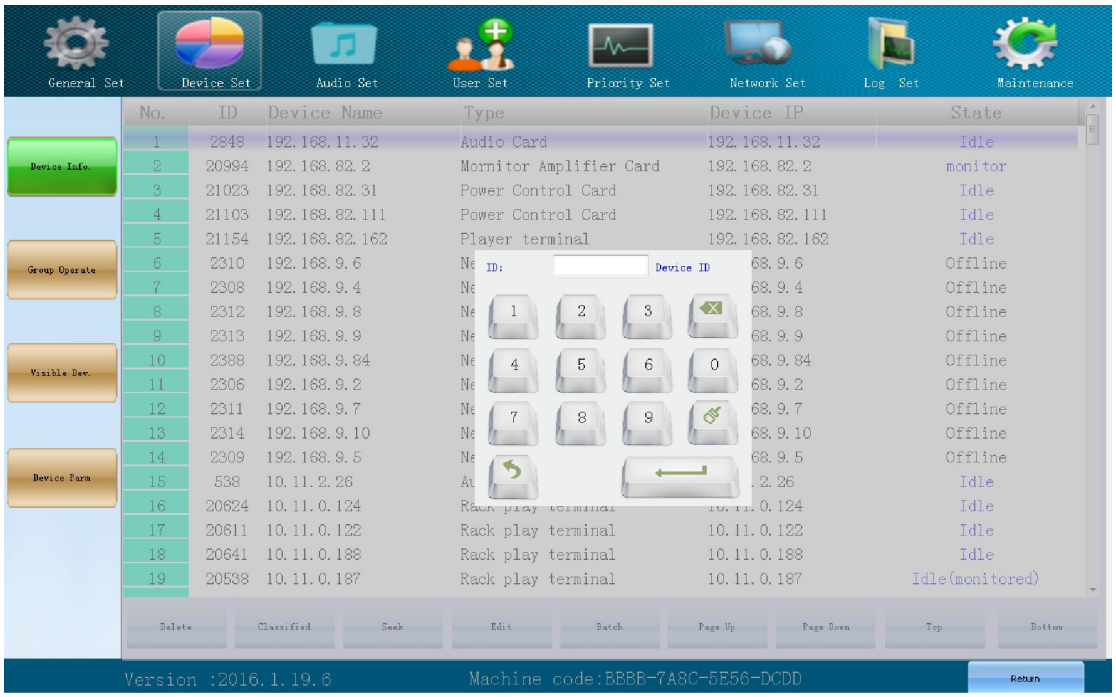


Fig (37)

"Edit" function:

Modify the name of terminal through this function, data transmission mode can be selected for unicast or multicast, select the transfer server is closed or open, it also can adjust the play volume, paging volume, alarm volume, as shown in the Fig (38)

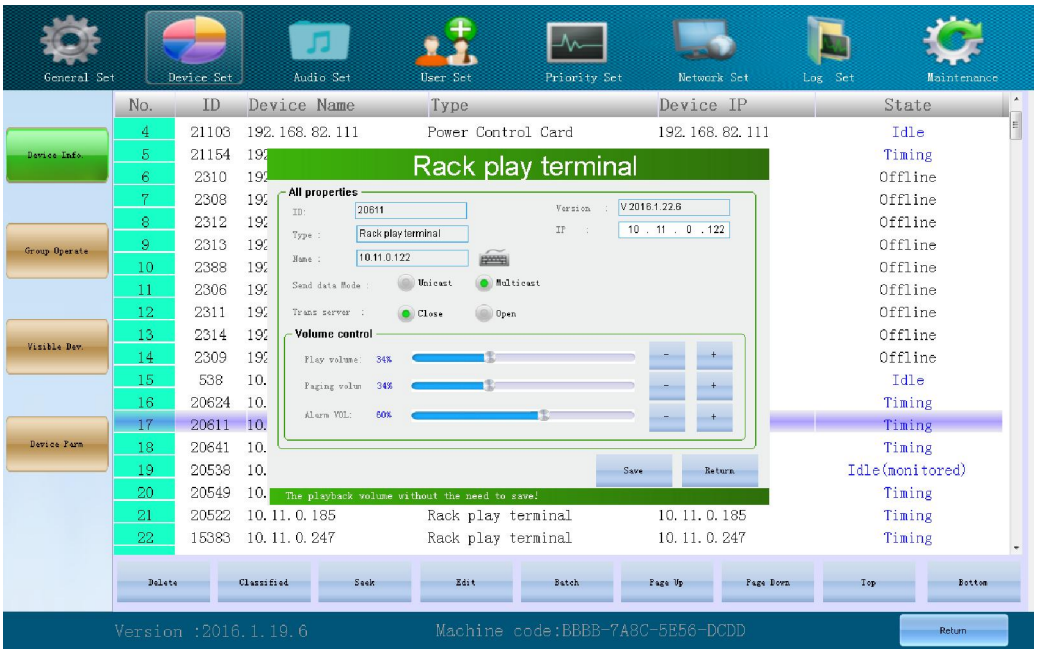


Fig (38)

"Batch editing" Function:

Set the “Batch device selection” first, select the batch device number, click “ Custom device number area” and select the type of device on drop-down menu, or input the initial device number and end device number; Then set “Data transmission mode”, “Transfer server”, “Volume control” and “ Application items selection”, click “save”. as shown in the Fig (39)

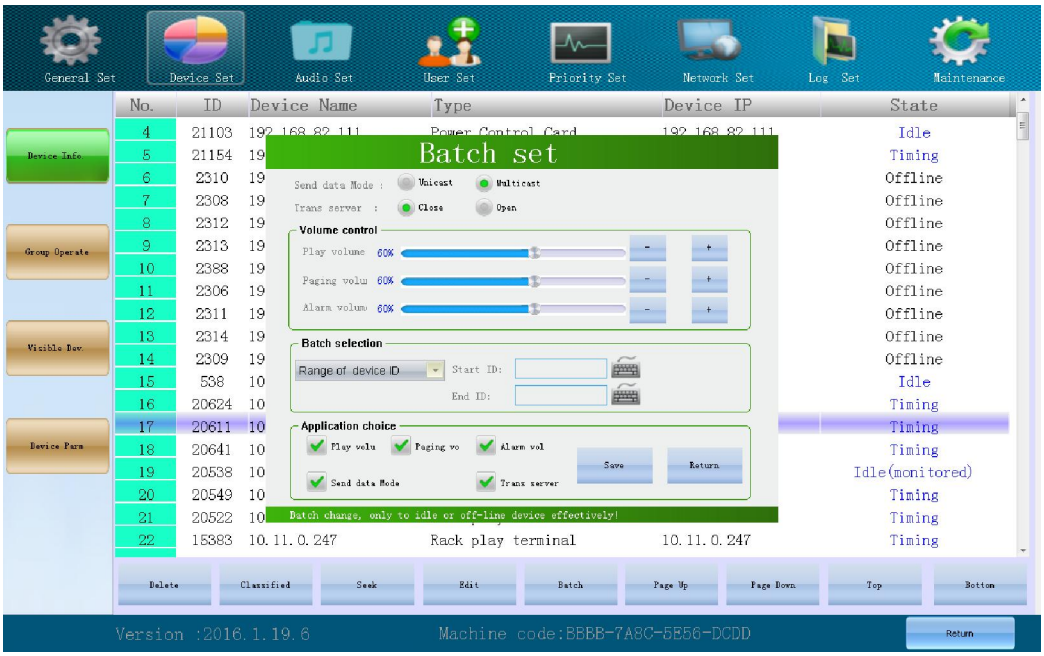


Fig (39)

4.2.2 Grouping operation:

A. Click” add” to record the grouping name, and then click “ save” to complete the grouping.

Choose a group, for example, choose “Grade 1”to add the terminal device, and select the terminal device to add to “Grade 1”, click  to add the terminal device. as shown in the Fig (40)

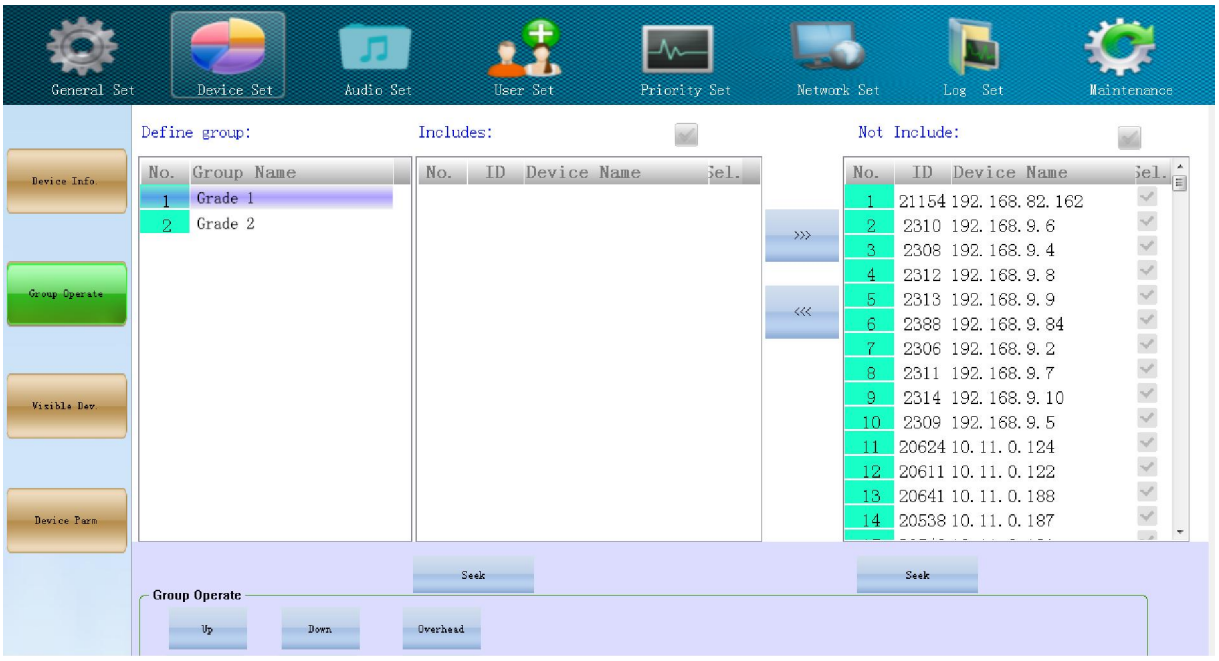


Fig (40)

4.2.3 Display Device

"Device can display" including these device as follows Fig (41), device information can be seen at the host interface, as shown in the Fig. (42)

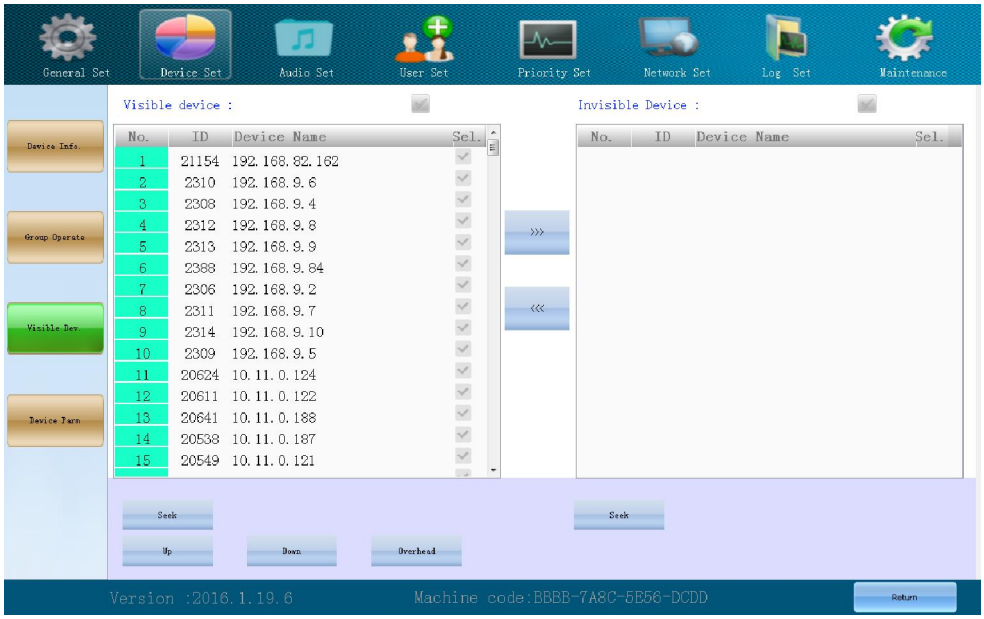


Fig (41)

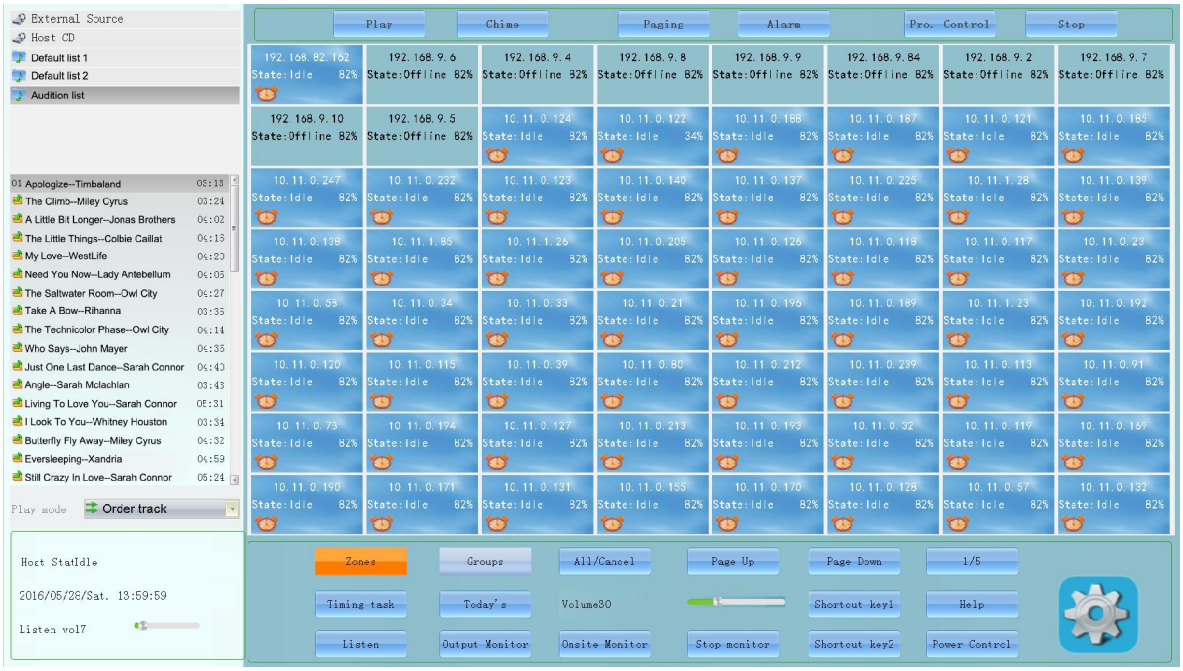


Fig (42)

" Device can not display" including those devices in the following Fig (43), device information can not be seen at the host interface, as shown in the Fig. (44)

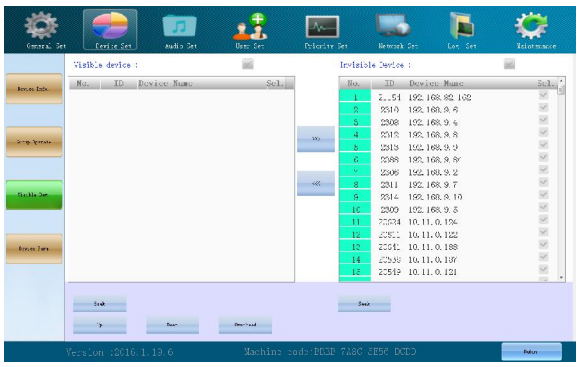


Fig (43)

Fig (44)

4.2.4 Device parameter

On “ Terminal forced insertion output （DC-24V）/（SC-short circuit), tick the corresponding function, the output terminal is play the program, “ Terminal forced insertion output（DC-24V）/（SC-short circuit)”output terminal trigger is open, set delay time, such as, set it as “20 second”. When the terminal stop playing the corresponding program, it will close the terminal forced insertion output （DC-24V）/（SC-short circuit) in 20 second delay. as shown in the Fig. (45)

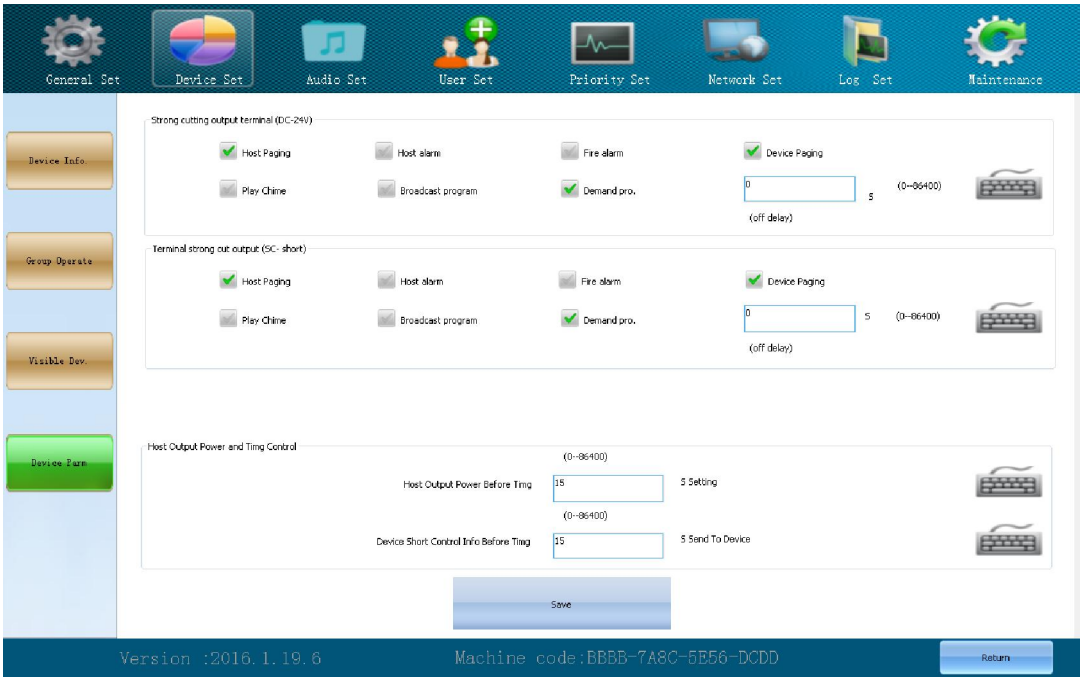


Fig (45)

4.3 Audio source management

Click “ audio source management” on “system setting” interface to enter “ audio source setting management” interface. On this interface, the users can edit the play list, host songs, U-disk songs, program recording, alarm sound setting, chime setting, sound card configuration and so on.

4.3.1 Play list

Create the new list:

Click “new-built”, input the list name, click “sure” to create the new list. as shown in the Fig. (46)

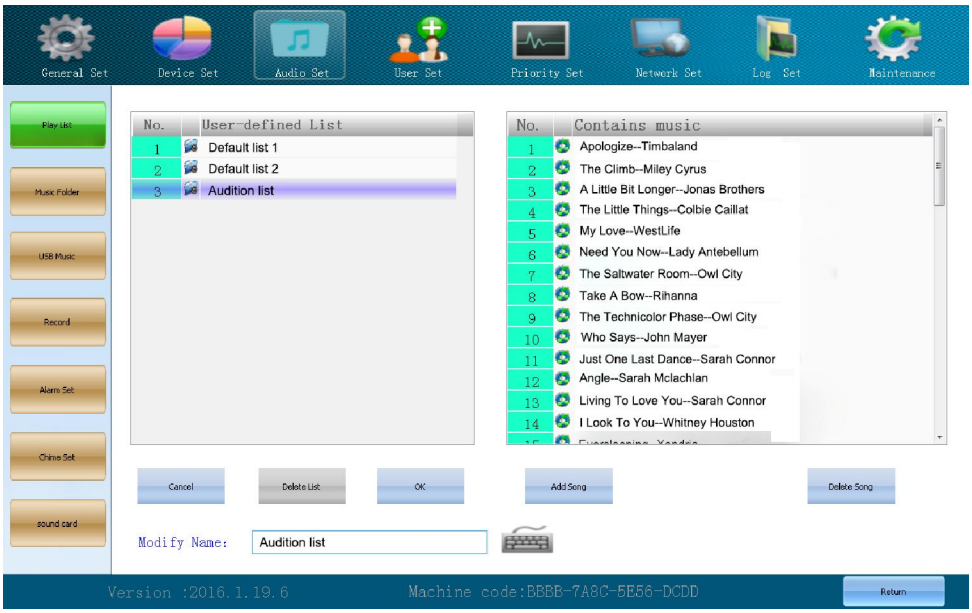


Fig. (46)

Add songs:

Select a list, click “add songs” to enter the dialog column, choose the host music catalog, choose the songs, Click >>> to add the songs: as shown in the Fig. (47)

Fig. (47)

4.3.2 Host songs

New-built catalog: click “ New-built catalog”, input the catalog name, click “ sure” to create the new catalog, as shown in the Fig. (48)

Delete catalog: Choose a catalog list, click “delete”

Modify name: Click “modify name” to modify the catalog name

Delete songs: “Included music” column on the right side, select the songs need to delete, and click “delete songs” to delete.

Add songs:

Click “add songs” to enter the dialog column of “add songs”. Click and choose ... song route, choose the songs to add, click “sure”, and then tick the songs, click “add”. as shown in the fig.49

The host songs can copy by U-disk, the specific operation please refer to the description of “U-disk songs”

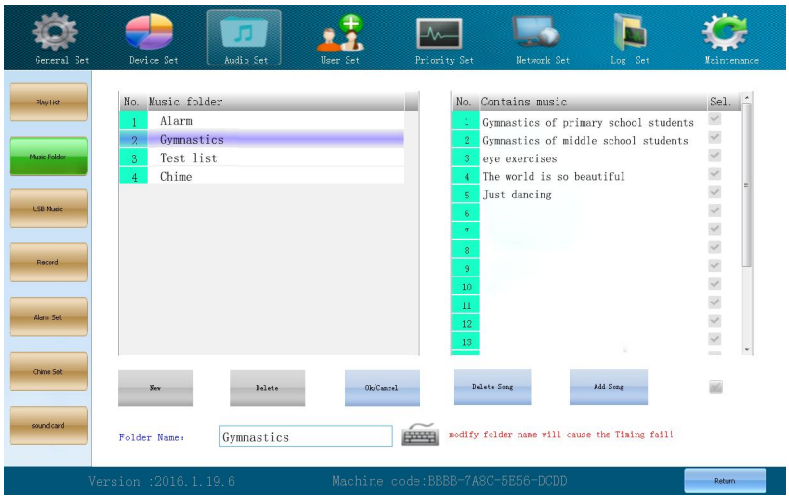


Fig. (48)

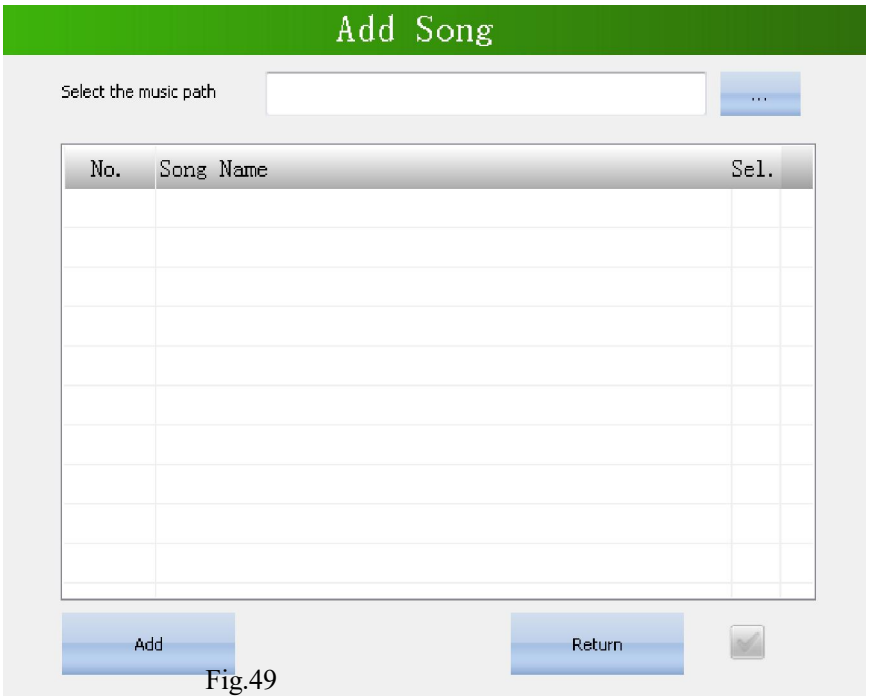


Fig.49

4.3.3 U-disk songs

Download the songs to U-disk, and then inert the U-disk, when the device shows “U-disk ready”, select the host music catalog, click >>> to copy the songs to host. as shown in the fig.50

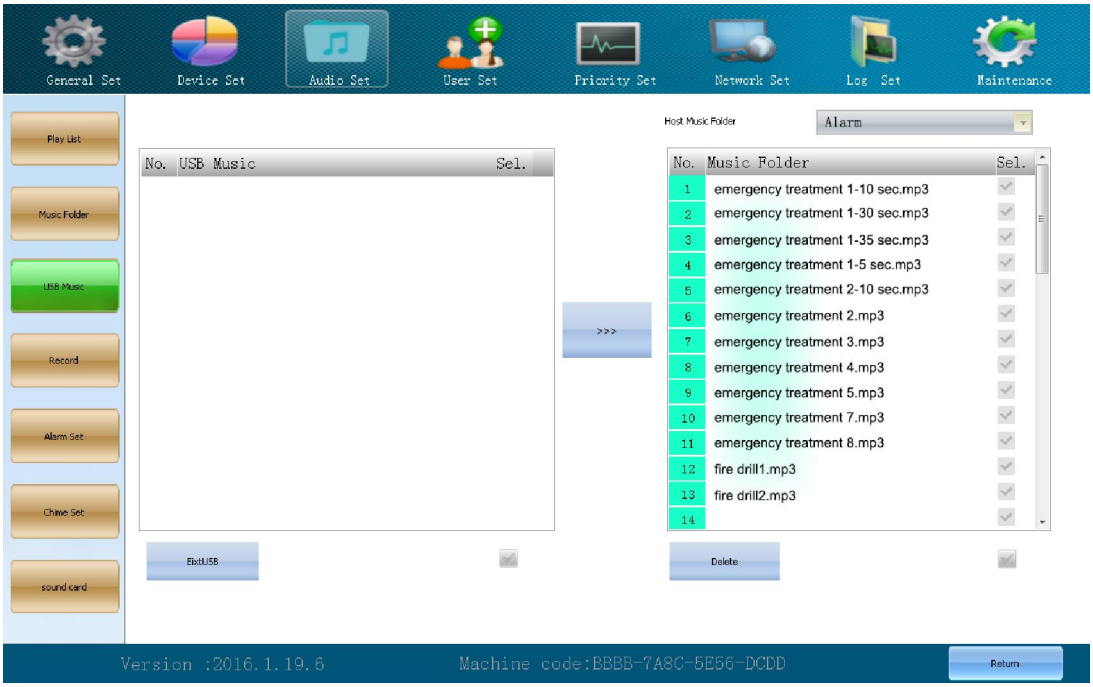


Fig. (50)

4.3.4 Program recording

Click " start recording", then record the content, click "stop recording", " recording audition", make sure the recording content, then click "save recording", as shown in the fig.51.

Fig. (51)

4.3.5 Alarm sound setting

Click “audio source management” will appear “audio source” dialog column, select “alarm sound setting”, and choose “alarm sound” on songs catalog. And then choose the song for alarming, if the users do not set it, the sound will be default alarm sound. as shown in the fig.52

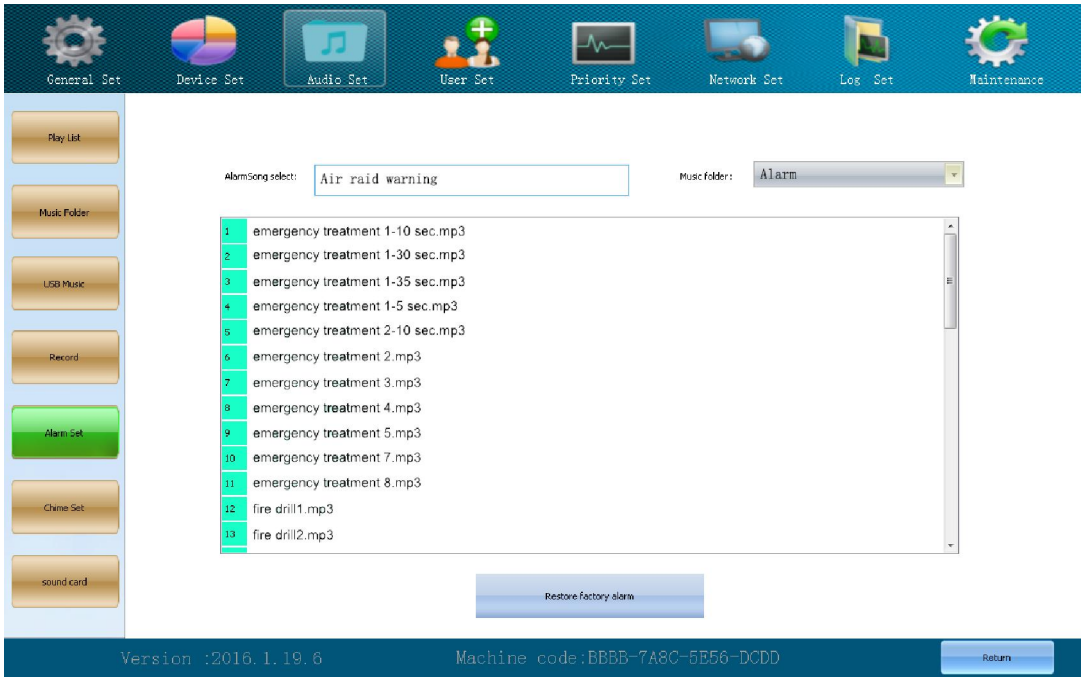


Fig. (52)

4.3.6 Chime Setting

Operation refers to “Chime setting”, as shown in the fig.53

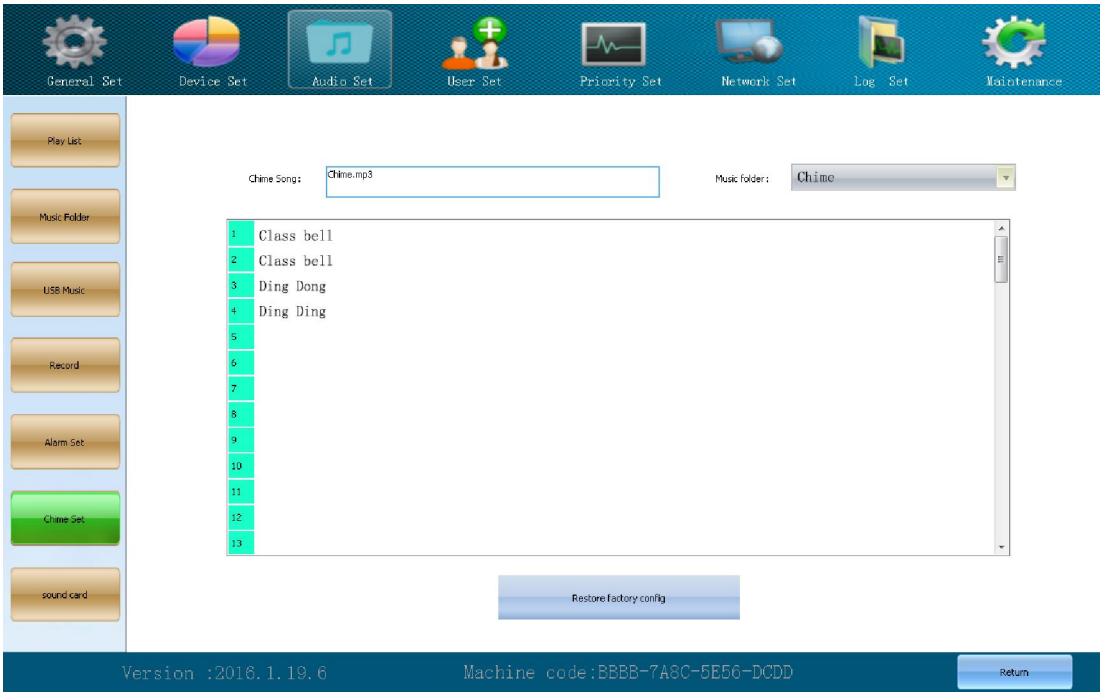


Fig.(53)

4.3.7 Sound card setting

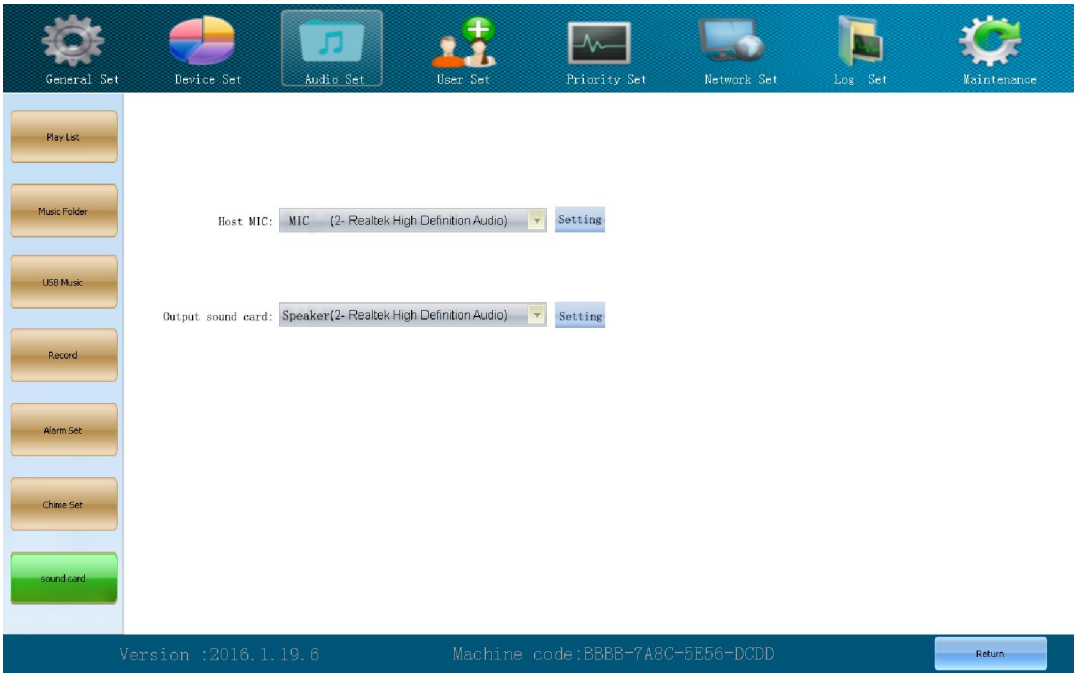


Fig.(54)

4.4. User management

4.4.1 Create the new user

Click “Create the new user”, it will appear “Create the new user” dialog column, input the user name and password, click “save” to create a new user account, as shown in the fig.55

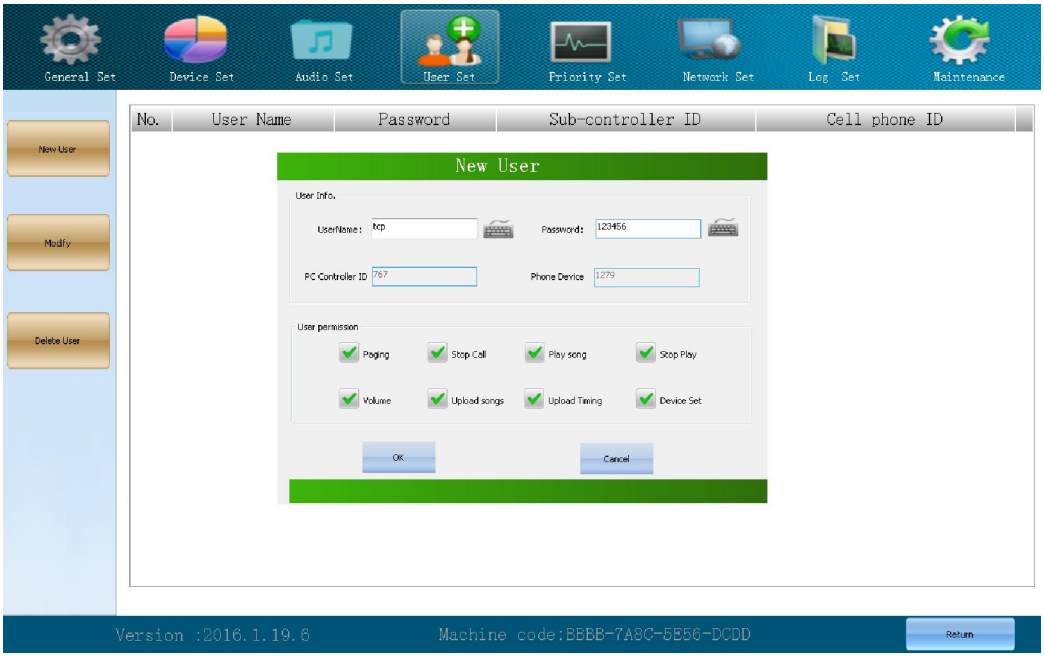


Fig.(55)

4.4.2 Modify user

Select a user, click “modify user” and enter the dialog column to modify the information of users, as shown in the fig.56

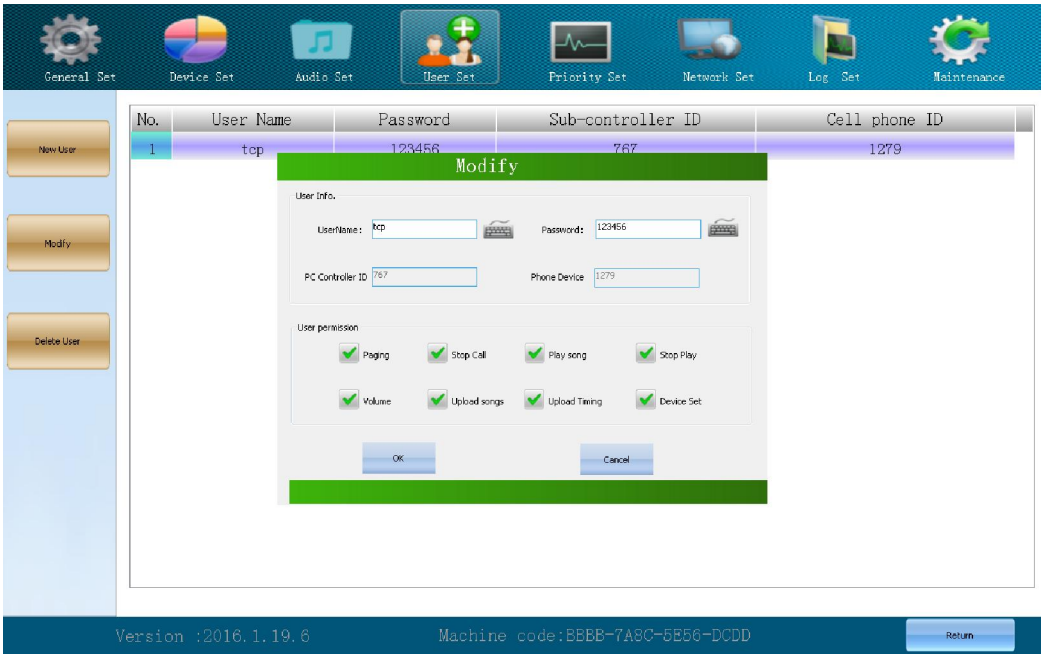


Fig.(56)

4.4.3 Delete the user

Select a unnecessary account, click “delete user” and then click“sure” to delete. as shown in the fig.57

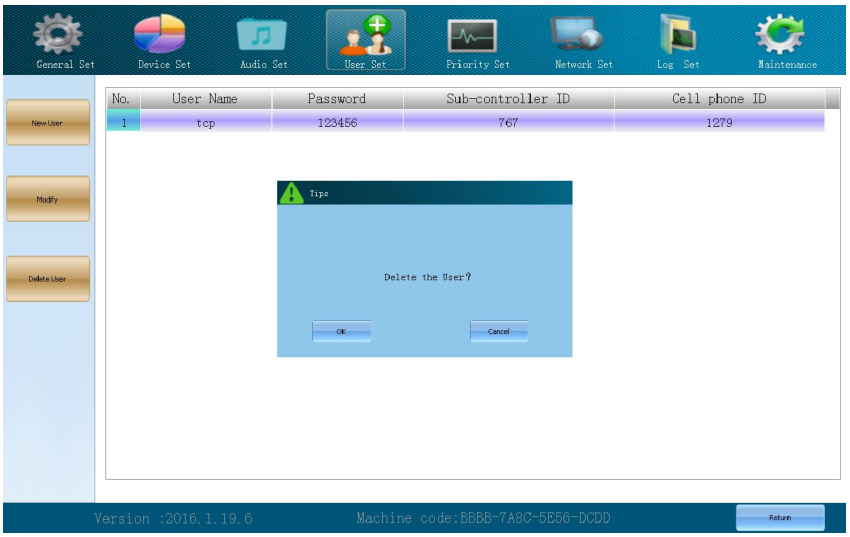


Fig.(57)

4.5 Priority setting

The default priority setting as shown in the fig.58

Notes: The priority is reduced from 1-7 level. The highest level can interrupt the others level. For example, “Broadcasting program” is the level 6, “timing program” is the level 7. When the “broadcasting program” is working,

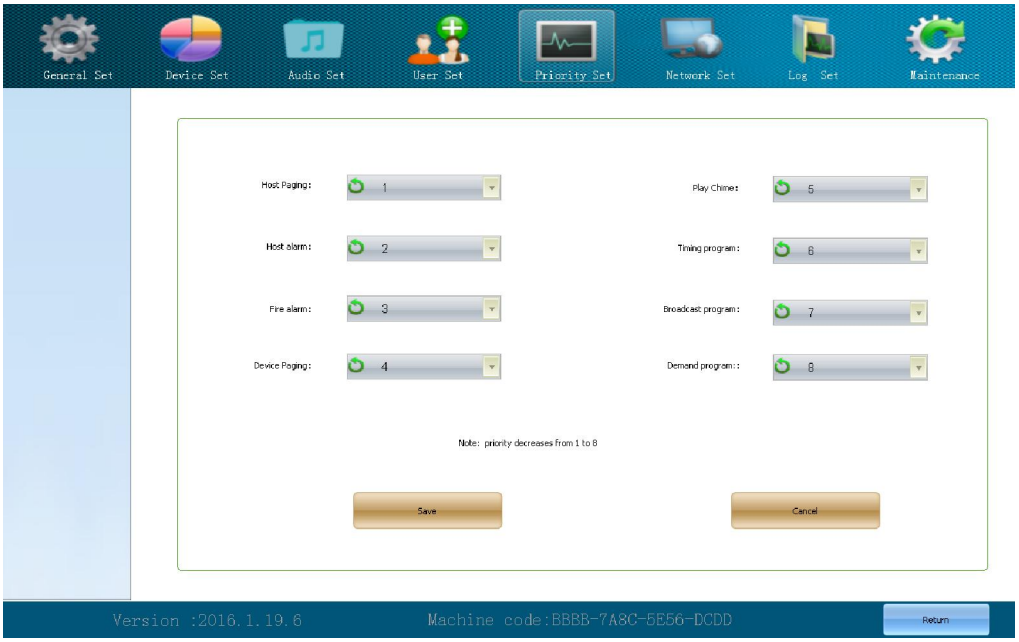


Fig.58

4.6 Network setting

4.6.1 IP management

“Add IP”:

Click “Add IP”, it will appear “Add IP” dialog column, input the IP segment of terminal. For example: input 192.168.20.250, click “sure” to add the terminal segment of the IP 192.168.20.250. as shown in the fig.58

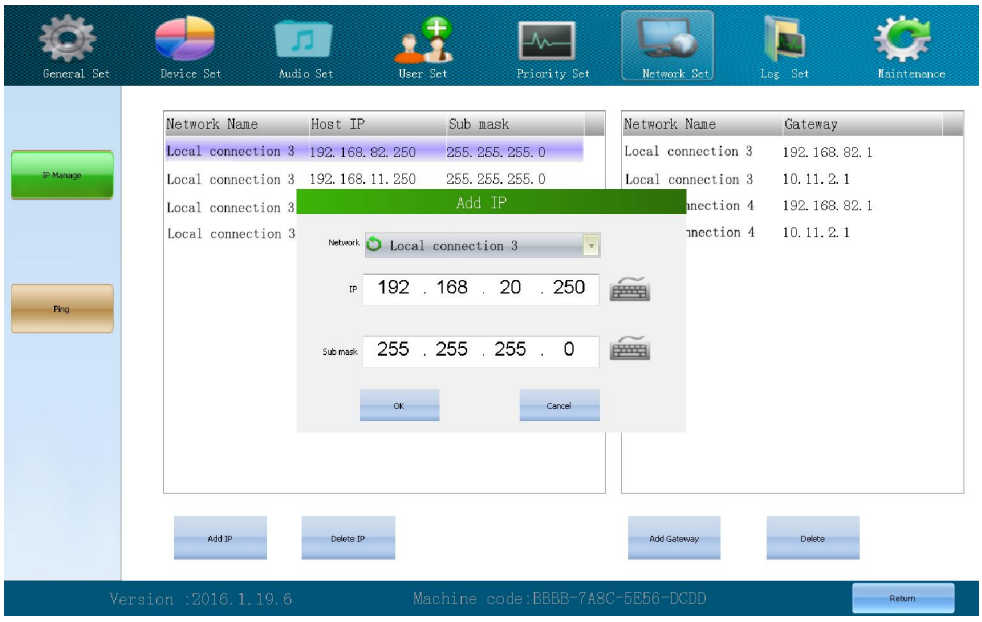


Fig.(59)

4.6.2 ping:

Click “Ping” and enter Ping IP dialog column, input the IP of ping, click “start”, if it shows “ request timeout”, it means the connection of IP is unsuccessful. as shown in the fig.60

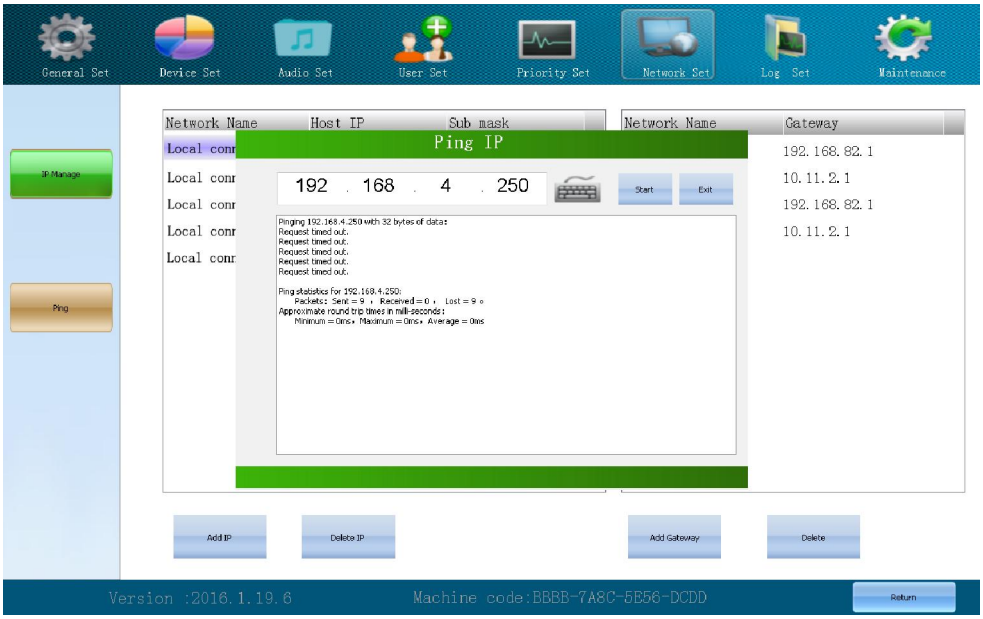


Fig.(60)

4.7 Log management

4.7.1 Server log

Select “The type of log” and “Sub-type”, choose searching the time range :” start time” and “end time”, click “search” and click “Drive”, as shown in the fig.61

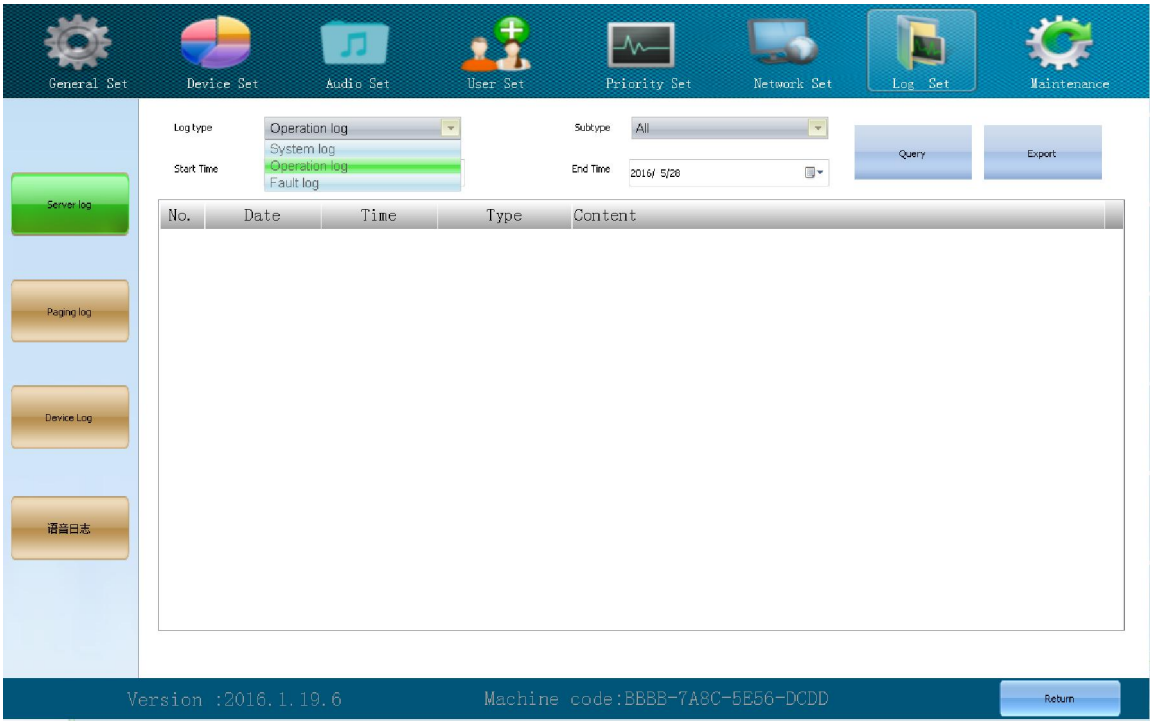


Fig.(61)

4.7.2 Paging station log

Save the paging station log to server:

When the user tick “Save the paging station log to server”, “Log saving catalog” can’t be selected; Click “Save the paging station log to server” to upload the paging station log to server. No ticking, no uploading. as shown in the fig.62

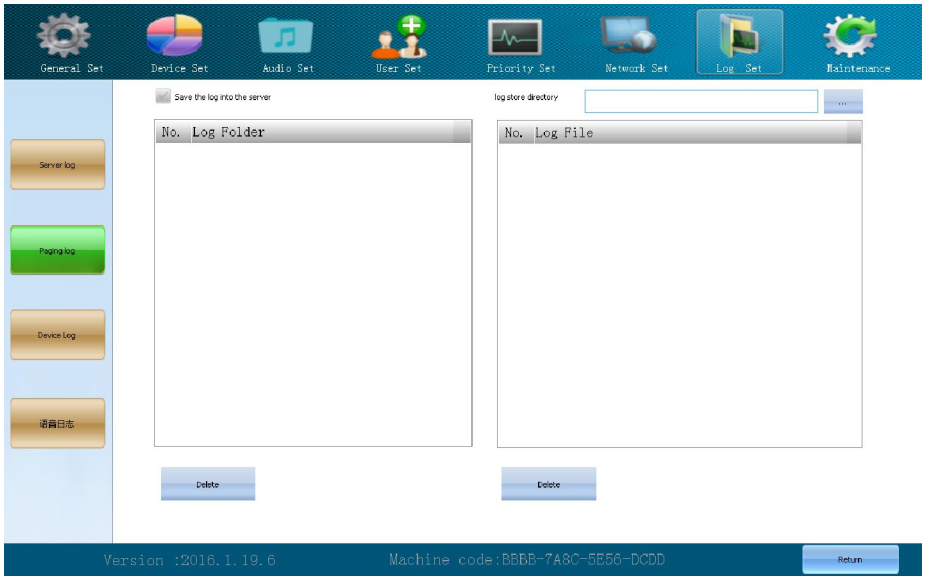


Fig.(62)

Log saving catalog:

If the user do not tick “Save the paging station log to server”, they can choose log saving catalog. Click ..., and select the saving routine catalog as shown in the fig.63

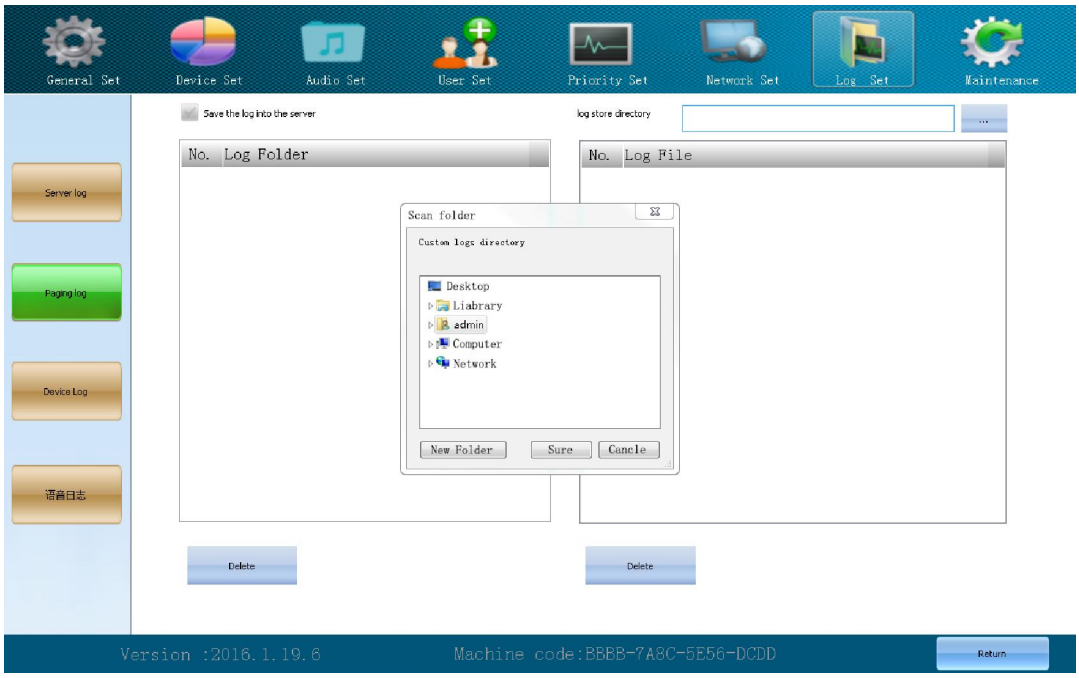


Fig. (63)

4.7.3 Device log:

Choose the type of log, select the start time and end time, click “Search” to search the device as shown in the

fig.64

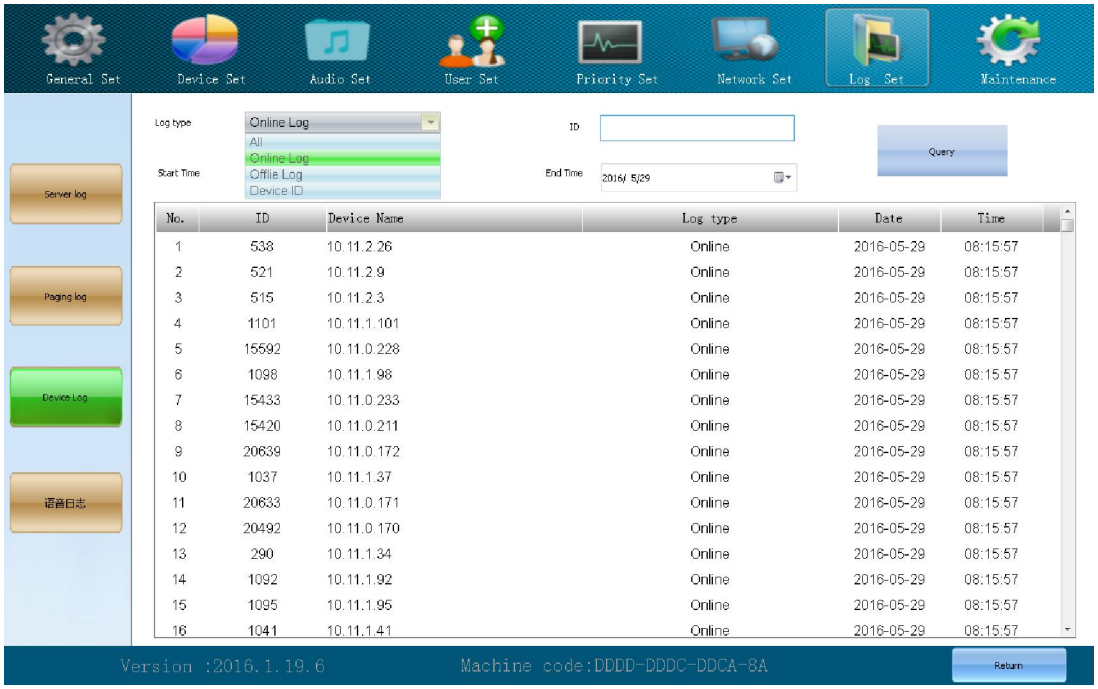


Fig. (64)

4. 8 system maintenance

4.8.1 Intelligent paging station

Click “paging station” and tick “ Whether to upgrade”, and then select “Choose” to upgrade the program, and then input the terminal IP number need to upgrade, click “upgrade” as shown in the fig.65

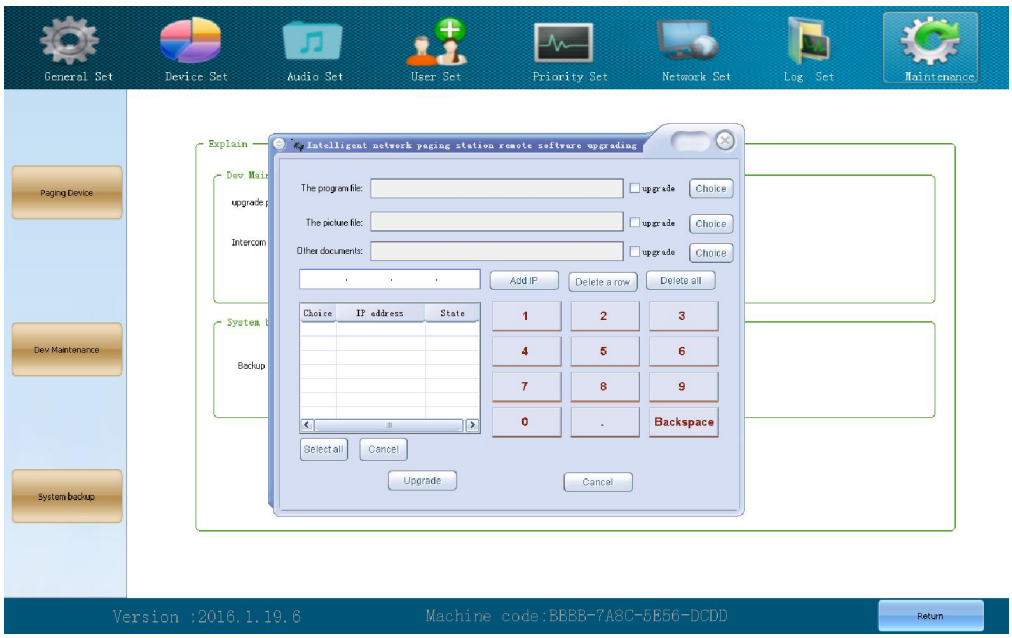


Fig.(65)

4.8.2 Device maintenance

Modify IP:

When the IP terminal conflict with each others, the user can solve it through “Modify IP”:

Select the “ Automatic search” or “ Specify IP”, click “search”, it will show the IP terminal, and select one of it, click “Modify IP”, it will appear the dialog column, input the new IP address, sub-net mask, default gateway, server IP address and stand-by IP address remain the same, click “sure” to finish the modification. as shown in the fig.66

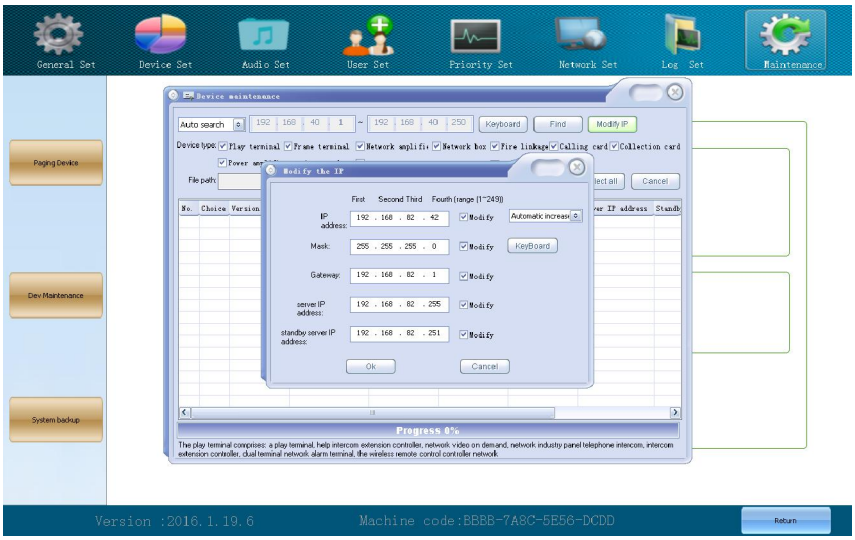


Fig.(66)

Upgrade：

Select the “ Automatic search” or “ Specify IP”， click “search”, it will show the IP terminal, and select one of it, Click “Open” on the back of “ File routine”, select upgrade program file and click “Upgrade” as shown in the fig.67；

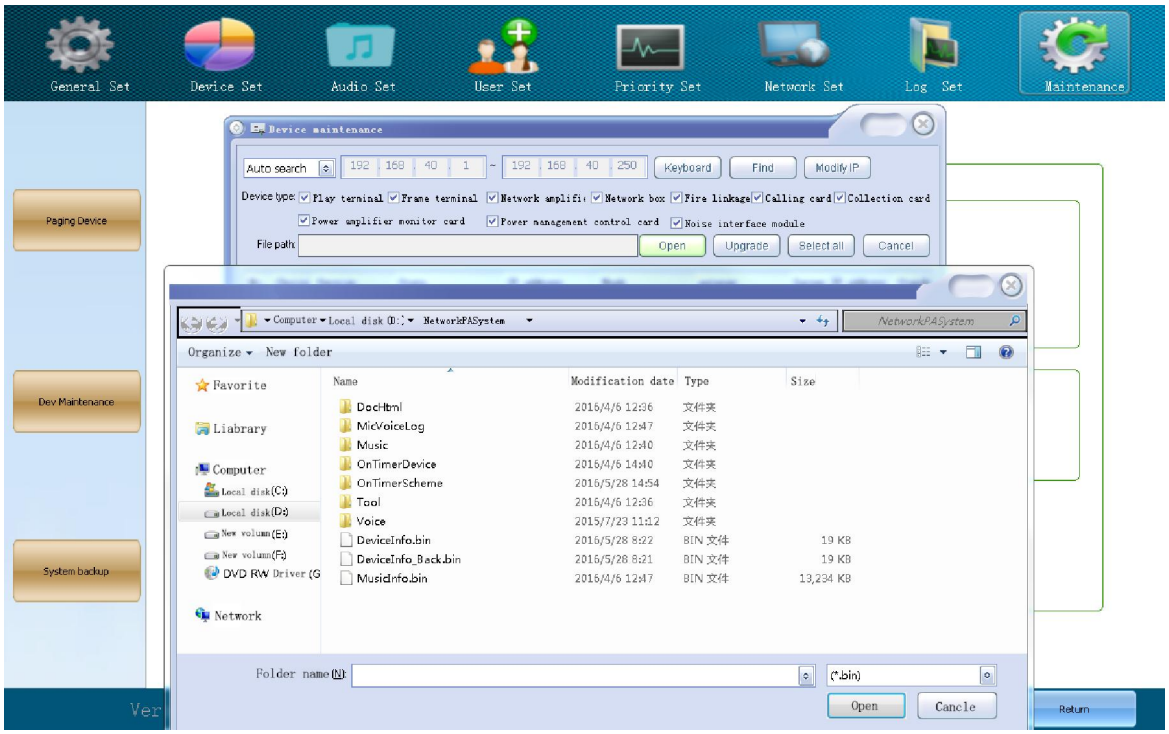


Fig.(67)

4.8.3 System backup

Click “System backup”, click “sure” to enter the dialog column of upgrading, click “start” to backup as shown in the fig.67

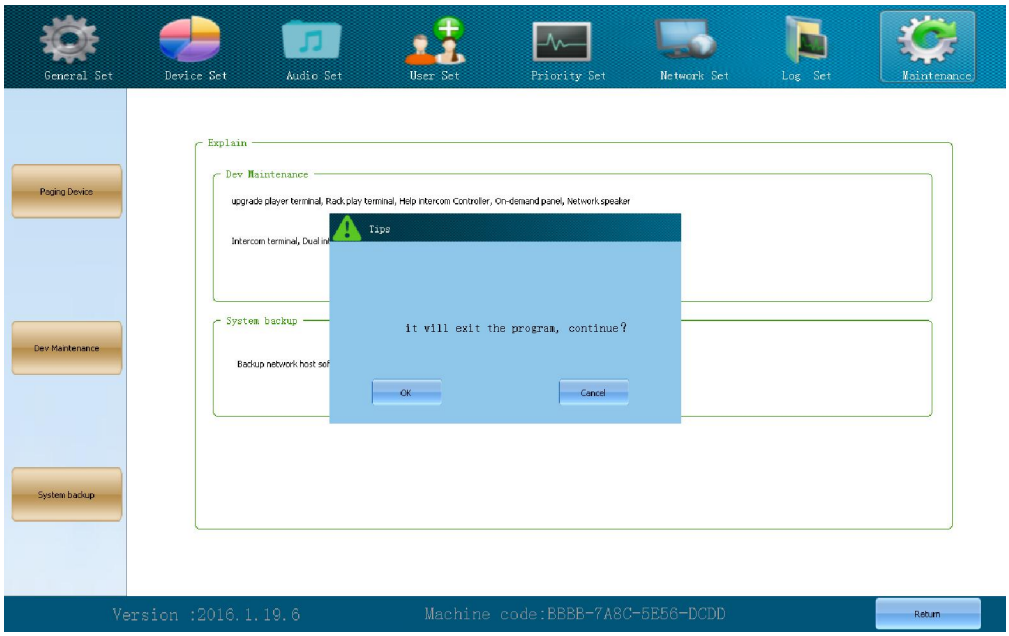


Fig.(68)

Safety Precautions

1. Safety Precautions

- Please do NOT connect this device to the power source, before the system is correctly wired.
- It is important to ensure that input voltage to the device is the same as required voltage of the device, otherwise the device may be damaged.
- There is dangerous voltage in the device, which may cause personal electric shock. Please do NOT open the case without permission, to avoid potential risks of electric shock.
- The device is not completely disconnected from power source when it is switched "OFF". For sake of safety, please disconnect the device from the socket if it is not in use.
- Please do NOT place the device where it is extremely cold or hot.
- Good ventilation must be provided in the working environment of the device, to avoid excessive temperature during its operation, which may cause damages to the device.
- Please unplug the device from power socket in raining and wet days or if the device is not in use for a long time.
- Please disconnect the power plug from sockets, to ensure the device has been completely disconnected from power source, before any component is removed from or re-installed in the device or before any electric connector of the device is disconnected or reconnected.
- In case of any failure of the device, please do NOT open the case and repair without permission from a professional personnel, to avoid accident or additional damages to the device.
- Please do NOT place any corrosive chemicals near or on the device.

2. Matters needing attention

- Our company provides a three-year free warranty service (including free replacement parts) over quality issues as from the date of purchase, provided that the device is installed and used in accordance with requirements specified in the User Manual.
- For warranty, the user must show the Warranty Card and the receipt kept by the user and purchase invoice of the device as supporting documents.
- The following conditions are beyond the scope of warranty:
  1. Product damage due to improper installation, use or handling;
  2. Product damage due to abnormal conditions (such as excessive power source voltage or ambient humidity);
  3. Product damage due to acts of God;
  4. Product SN is changed, altered or removed;
  5. Product has been repaired or modified by any person without duly authorization from our company;
- Please keep the User Manual and Warranty Card in good custody.
- For issues and precautions not mentioned in this User Manual, if required, please contact the distributor or visit our website at http://www.lyintlcorp.com/ .
- In case of any failure in the warranty period, please contact service personnel (or distributor) of our company for service. The company shall not be made liable for damages due to unauthorized dis-assembly or maintenance or service by unauthorized personnel.

Packing List

No.	Item	QTY
1.	General purpose infrared remote controller	1
2.	M-6182II User Manual	1
3.	Warranty card	1
4.	Quality Certificate	1
5.	White gasket	4
6.	Audio cable with RCA plug	1
7.	3m network cable	1
8.	5×19 semi-sunk cross head wire	4
9.	Audio adapter	5
10.	International standard MP-P power cable	1
11.	Start-up key	2
12.	CB100 microphone (with plug)	1

Annex Performance Specification

The performance specifications are subject to changes without further notification.

Model	M-6182II
Screen size	17" LCD
Operating Manner	Touchscreen
Working environment	Ambient temperature: 5-35ºC; Relative humidity: ≤75%; Barometric pressure: 86-106kpa
Load capacity of timing power source	Current at single channel: 2A
SNR of system audio signal	LINE: >70dB; MIC: >60dB
Distortion of system audio signal	1kHz<0.5%
Standard input voltage level of system audio signal	LINE : 300mV±20mV; MIC :10mV±2mV。
Standard output voltage level of system audio signal	0dBV
Manner of power output	Fixed resistance
Output power without distortion	10W
Power consumption of the device	AC 220-240V/50-60Hz/150W
Dimensions (L×W×H mm)	483×308×445
Gross weight	33.7kg
Net Weight	24.5kg
System software	Software package of network public address system Copyright reserved. Reproduction or counterfeit is prohibited.

Caution

- The device is not completely disconnected from power source when it is switched "OFF". For sake of safety, please disconnect the device from the socket if it is not in use.
- Please keep this device off water drops or splash or vase filled with water or any other articles of similar nature.
- Please do NOT remove the cover of the equipment, otherwise you may get an electric shock. Where necessary, repair to the equipment should be conducted by qualified professionals.
- All terminals on the device marked with ϟ are live and dangerous, and should be connected by trained personnel.
- This is connected to power source via the plug and any failure or danger occurs, the user can disconnect the device from power source by pulling out the plug out from the socket, therefore, it is required that the power socket should be located somewhere with easy access.

LY International Electronics Co., Ltd