

itC *IP NETWORK PA SYSTEM*



Please follow the instructions in this manual to obtain the optimum results from this unit. We also recommend that you keep this manual handy for future reference.

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1. SAFETY PRECAUTIONS

- Be sure to read the instructions in this section carefully before use.
- Make sure to observe the instructions in this manual as the conventions of safety symbols and messages regarded as very important precautions are included.
- We also recommend you keep this instruction manual handy for future reference.

Safety Symbol and Message Conventions

Safety symbols and messages described below are used in this manual to prevent bodily injury and property damage which could result from mishandling. Before operating your product, read this manual first and understand the safety symbols and messages so you are thoroughly aware of the potential safety



WARNING

Indicates a potentially hazardous situation which, if mishandled, could result in death or serious personal injury.



CAUTION

Indicates a potentially hazardous situation which, if mishandled, could result in moderate or minor personal injury, and/or property damage.



WARNING

When Installing the Unit

- Do not expose the unit to rain or an environment where it may be splashed by water or other liquids, as doing so may result in fire or electric shock.
- Use the unit only with the voltage specified on the unit. Using a voltage higher than that which is specified may result in fire or electric shock.
- Do not cut, kink, otherwise damage nor modify the power supply cord. In addition, avoid using the power cord in close proximity to heaters, and never place heavy objects -- including the unit itself -- on the power cord, as doing so may result in fire or electric shock.
- Be sure to replace the unit's terminal cover after connection completion. Because high voltage is applied to the speaker terminals, never touch these terminals to avoid electric shock.
- Be sure to ground to the safety ground (earth) terminal to avoid electric shock. Never ground to a gas pipe as a catastrophic disaster may result.
- Avoid installing or mounting the unit in unstable locations, such as on a rickety table or a slanted surface. Doing so may result in the unit falling down, causing personal injury and/or property damage.

When the Unit is in Use

- Should the following irregularity be found during use, immediately switch off the power, disconnect the power supply plug from the AC outlet and contact your nearest **ITC** dealer. Make no further attempt to operate the unit in this condition as this may cause fire or electric shock.
 - If you detect smoke or a strange smell coming from the unit.
 - If water or any metallic object gets into the unit
 - If the unit falls, or the unit case breaks
 - If the power supply cord is damaged (exposure of the core, disconnection, etc.)
 - If it is malfunctioning (no tone sounds.)
- To prevent a fire or electric shock, never open nor remove the unit case as there are high voltage components inside the unit. Refer all servicing to your nearest **ITC** dealer.
- Do not place cups, bowls, or other containers of liquid or metallic objects on top of the unit. If they accidentally spill into the unit, this may cause a fire or electric shock.
- Do not insert nor drop metallic objects or flammable materials in the ventilation slots of the unit's cover, as this may result in fire or electric shock.

CAUTION

When Installing the Unit

- Never plug in nor remove the power supply plug with wet hands, as doing so may cause electric shock.
- When unplugging the power supply cord, be sure to grasp the power supply plug; never pull on the cord itself. Operating the unit with a damaged power supply cord may cause a fire or electric shock.
- When moving the unit, be sure to remove its power supply cord from the wall outlet. Moving the unit with the power cord connected to the outlet may cause damage to the power cord, resulting in fire or electric shock. When removing the power cord, be sure to hold its plug to pull.
- Do not block the ventilation slots in the unit's cover. Doing so may cause heat to build up inside the unit and result in fire.
- Avoid installing the unit in humid or dusty locations, in locations exposed to the direct sunlight, near the heaters, or in locations generating sooty smoke or steam as doing otherwise may result in fire or electric shock.

When the Unit is in Use

- Do not place heavy objects on the unit as this may cause it to fall or break which may result in personal injury and/or property damage. In addition, the object itself may fall off and cause injury and/or damage.
- Make sure that the volume control is set to minimum position before power is switched on. Loud noise produced at high volume when power is switched on can impair hearing.
- Do not operate the unit for an extended period of time with the sound distorting. This is an indication of a malfunction, which in turn can cause heat to generate and result in a fire.
- Contact your **ITC** dealer as to the cleaning. If dust is allowed to accumulate in the unit over a long period of time, a fire or damage to the unit may result.
- If dust accumulates on the power supply plug or in the wall AC outlet, a fire may result. Clean it periodically. In addition, insert the plug in the wall outlet securely.
- Switch off the power, and unplug the power supply plug from the AC outlet for safety purposes when cleaning or leaving the unit unused for 10 days or more. Doing otherwise may cause a fire or electric shock.

An all-pole mains switch with a contact separation of at least 3 mm in each pole shall be incorporated in the electrical installation of the building.

2. APPLICATION

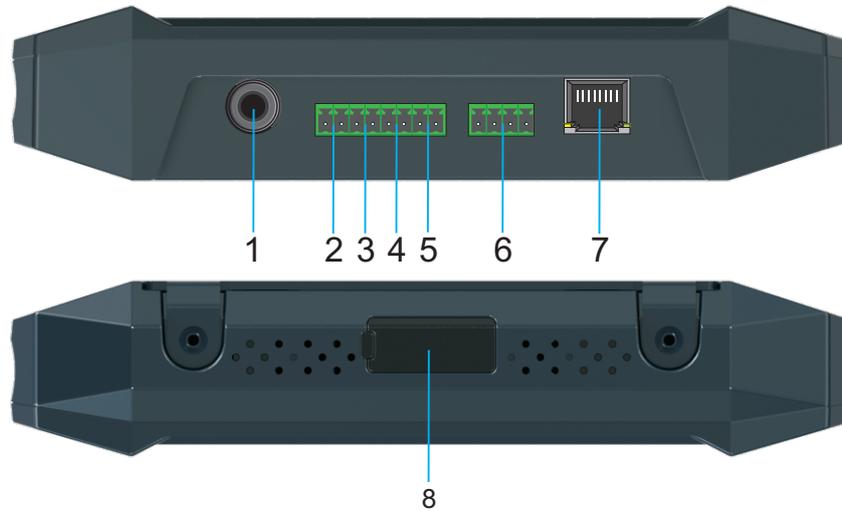
Wall Mounted IP network terminal is suitable for broadcasting recorded voice files or background music programs in classrooms, multimedia classrooms, offices, conference rooms, prisons, hospital departments, subways and other places.

3. FEATURES

1. Wall-mounted design, small size with aluminum alloy structure , delicate design.
2. 4. 3-inch display, with infrared remote control function, easy to operate.
3. Built-in network IP decoding module can play network music in real time and has one-way call function, the network delay time of the system for collecting playback and one-way calling is less than 100ms.
4. Built-in on-demand acquisition module, which can realize real-time on-demand function of network media library audio.
5. Built-in 2×10W digital power amplifier, higher efficiency with lower heat, CD-quality sound.
6. One AUX input, one LINE OUT output, suitable for on-site local broadcasting.
7. Priority function:
 - 1) Network alarms are the highest priority.
 - 2) Local AUX is prioritized over network background music.
 - 3) Network background music music in is prioritized over USB music.
8. Compatible with router, switcher, bridge gateway, Modem, Internet, 2G, 3G, 4G, multicast, unicast. etc.

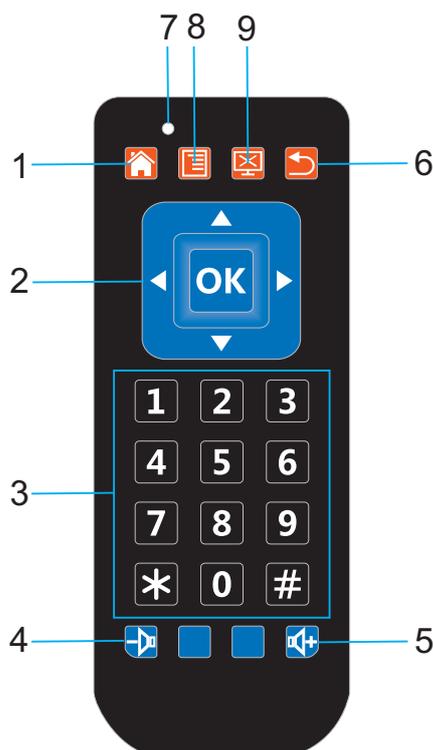
4. NOMENCLATURE AND FUCTIONS

4.1 Side panel



1. DC power supply 24V/1.5A power input;
2. AUX input for CD-type audio source devices;
3. LINE OUT, line output, for external local amplification;
4. SPK OUT2-speaker output port;
5. SPK OUT1-speaker output port;
6. The volume box can adjusting of AUX and the network volume control port by touch
7. Network interface input;
8. USB interface input for local input.

4.2 Remote control

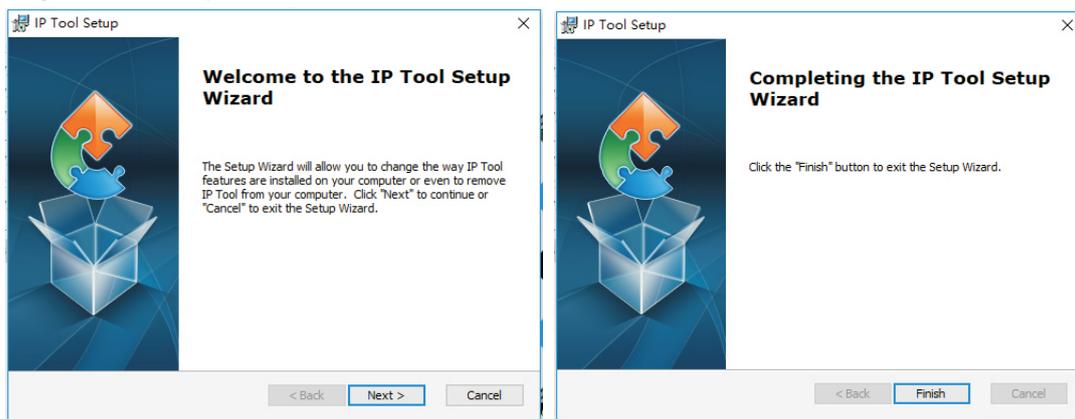


1. Back to Main Menu
2. Confirm button/up/down/left/right select direction button
3. Number button 0-9, button*, button#
4. Volume reducing button
5. Volume increasing button
6. Return button
7. Work status indicator
8. Reserved function button
9. Stop button

5. TERMINAL CONFIGURATION OPERATING INSTRUCTIONS

The terminal needs to be configured before installation, before installation, need make a installation plan including terminal name, terminal IP address, gateway IP address, server IP address, location of terminal installation, and label the information on the terminal to ensure the convenient use of the device. Please save the plan as an electronic document for future maintenance. After the system planning is completed, please configure parameters of each terminal includes “terminal IP address, subnet mask, gateway and server address”.

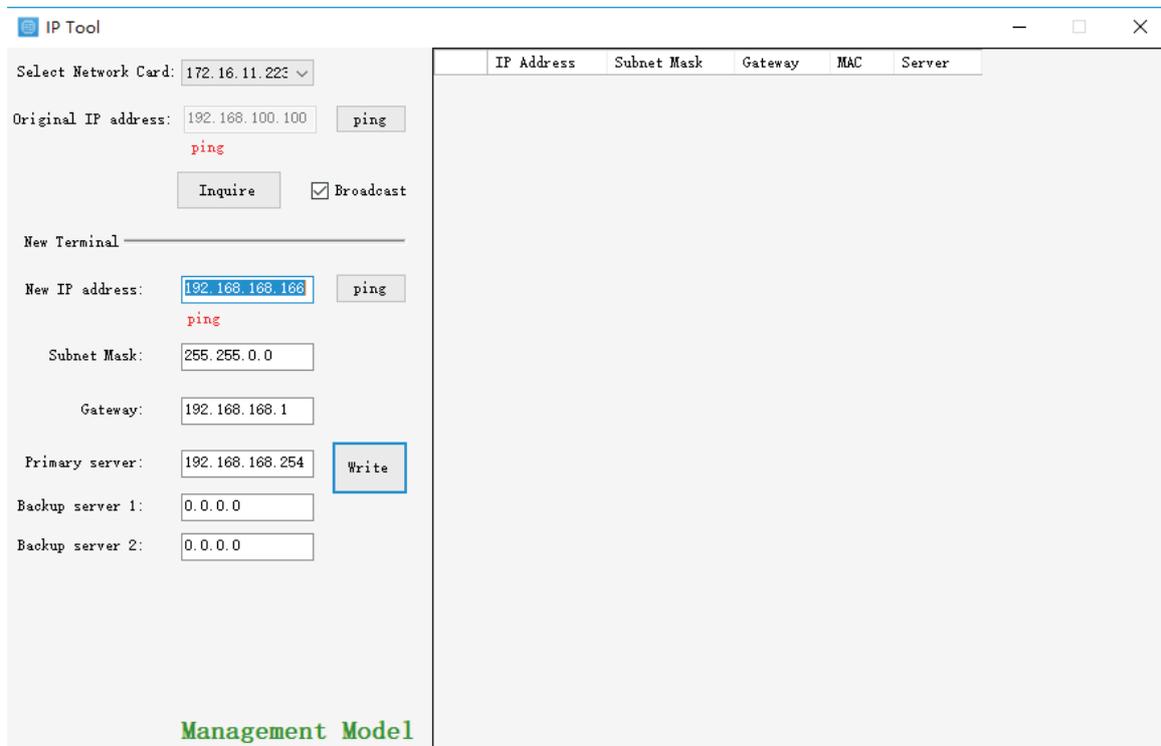
1. Installing software. Find the IP network broadcast system software installation package, double-click to open it, click on the program “terminal configuration tool”, after the installation of the program is completed, as shown below:



2. After the program is installed, a icon is generated on the desktop, as shown below:



3. Double-click the icon to run, and the “terminal configuration tool” window will pop up, as shown below:



5. TERMINAL CONFIGURATION OPERATING INSTRUCTIONS

The configuration steps:

Step 1: Connect the terminal and the computer installed with the terminal configuration tool program by the network wire, Plug in the power until the terminal power indicator is on.

Step 2: double-click to open the shortcut icon of “ terminal configuration tool”, select the network card first, and left-click the “query” button in the window, to query the terminal’s original IP address. Please pay attention to: local IP address of the computer should be set in the same network segment as the terminal, because the default IP of terminal is : 192.168.168.166, so the computer’s local IP address should also be set to: 192.168.168.X, otherwise it maybe not match the IP terminal address.

Step 3: In the window of “Terminal Configuration Tool” , fill in correct “IP address”, “Subnet mask”, “Gateway IP” and “Server IP”, as below :

The screenshot shows the 'IP Tool' window with the following configuration fields:

- Select Network Card: 172.16.11.188
- Original IP address: 172.16.11.20 (with a 'ping' button)
- Inquire button and Broadcast checkbox
- New Terminal section:
- New IP address: 172.16.11.20 (with a 'ping' button)
- Subnet Mask: 255.255.255.0
- Gateway: 172.16.11.254
- Primary server: 172.16.11.217 (with a 'Write' button)
- Backup server 1: 0.0.0.0
- Backup server 2: 0.0.0.0

At the bottom, it says 'Management Model'.

IP Address	Subnet Mask	Gateway	MAC	Server
172.16.11.20	255.255.255.0	172.16.11.254	42-4c-45-01-28-be0A-20180814-REV-1.18-EN	172.16.11.217

Step 4: left click on the “write” button, there will be a window prompt after the successful configuration; after that, left click on the “query” button, the parameters of the terminal will be re-read by the configuration program, if it display as the same as entered one, means that the configuration was successful.

This screenshot is similar to the previous one, but with a dialog box overlaid on top. The dialog box has the title 'please choose!' and the text 'Configuration successful! Continue to configure the next terminal!'. It has 'Yes' and 'No' buttons.

5. TERMINAL CONFIGURATION OPERATING INSTRUCTIONS

Step 5: If multiple terminals are in the same network segment, you only need to modify the IP address of one terminal, it is needed to click on the terminal in the queried terminals list, then cancel the choice of broadcast on the left interface, modify the IP address and click for configuration.

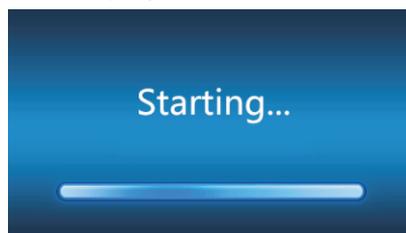
The IP Tool interface consists of a configuration panel on the left and a table of terminals on the right. The configuration panel includes fields for network card selection, original and new IP addresses, subnet mask, gateway, and primary/backup servers. A 'Write' button is used to save configurations. The terminal table lists IP addresses, subnet masks, gateways, MAC addresses, and server names. In the top screenshot, the terminal with IP 172.16.11.20 is selected. In the bottom screenshot, the terminal with IP 172.16.11.34 is selected, and a success message dialog is displayed.

Notes: If the terminal data can't be queried or the network is blocked, the pop-up window will say Reconfigure the IP address or IP address writing error. In this case, please reconfigure the network, check the network cable, and turn off the firewall, etc.

6. DISPLAY SCREEN OPERATION INTRODUCTION

2. The Screen Operation

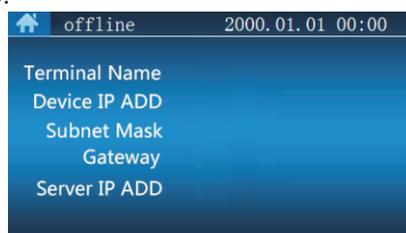
1) Power-on at the normal status, the display is shown as below:



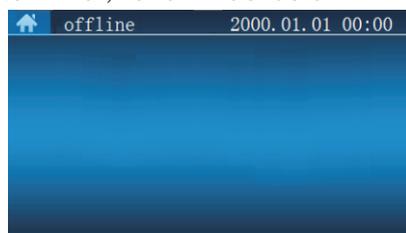
2) After the startup, wait for a while, and press the "MENU" button on the remote control to enter the menu interface. The display screen is shown as below:



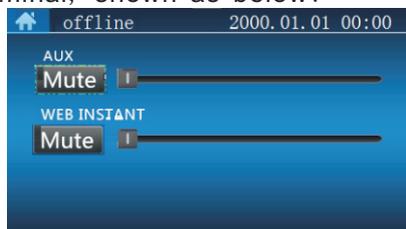
3) In the menu interface, press the number buttons on the panel of "1" to enter to view the IP address of the machine interface as follows:



4) In the menu interface, use the direction button of the control unit, to select and check the real-time status of the current terminal, shown as below:



5) In the menu interface, use the direction button of the control unit, to select and confirm the volume control interface of terminal, shown as below:

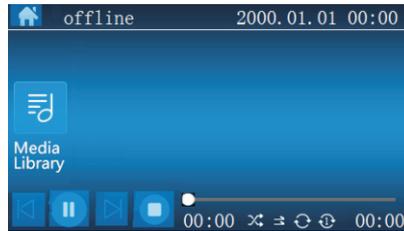


6) In the menu interface, use the direction button of the remote control to select and enter the broadcasting interface of the terminal, shown as below:

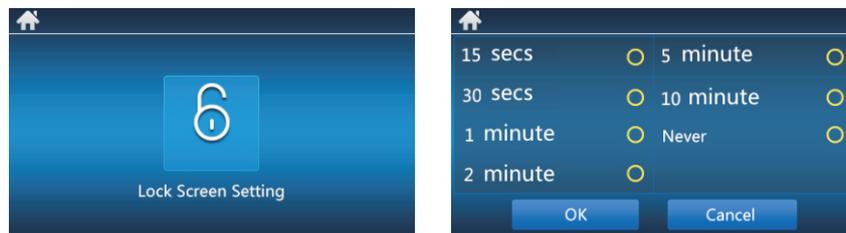


6. DISPLAY SCREEN OPERATION INTRODUCTION

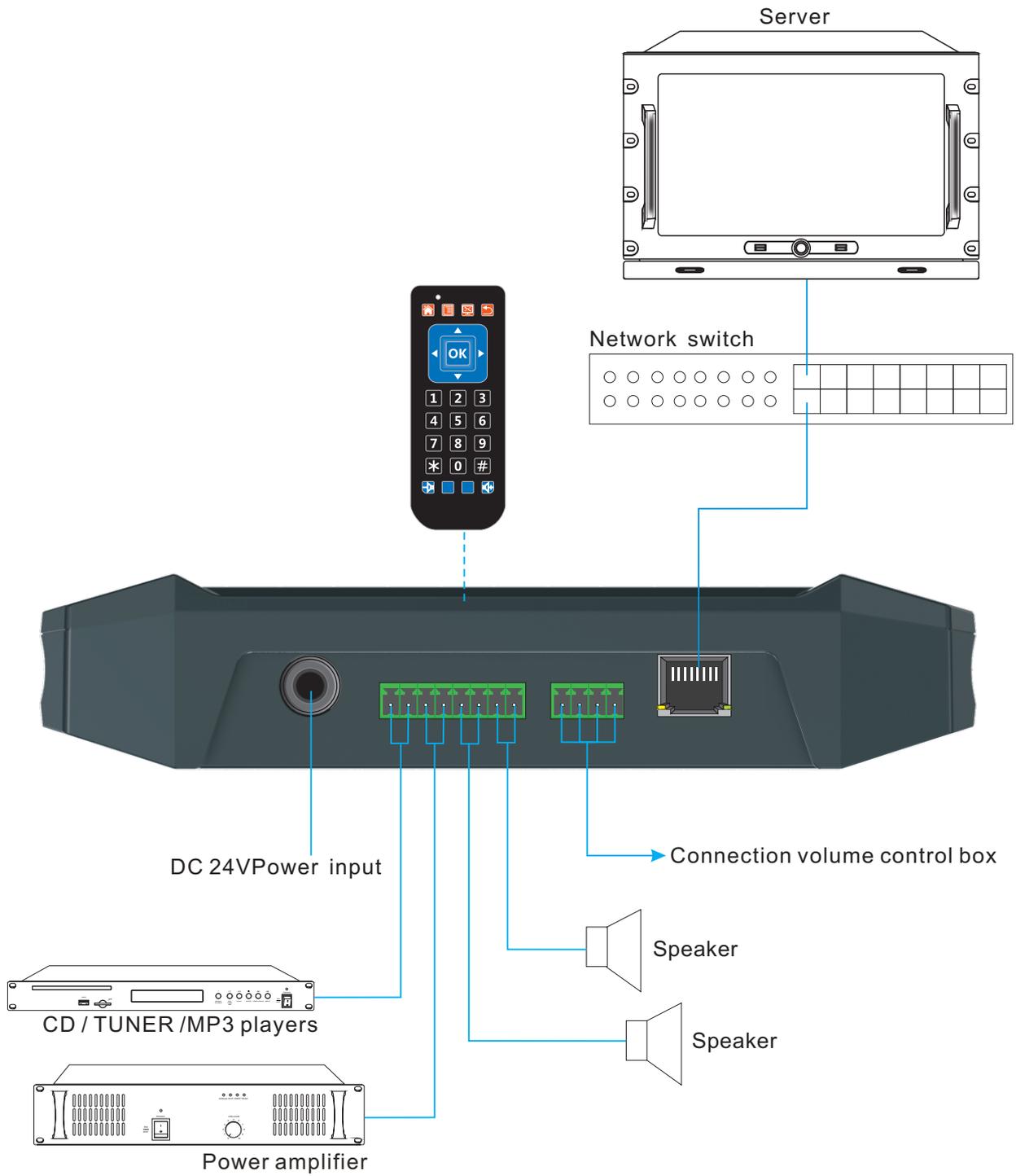
7) On the broadcasting interface of the terminal, the audio files in the media library can be freely selected for broadcasting, support operations of the previous/stopped/next, and the play mode of audio files, shown as below:



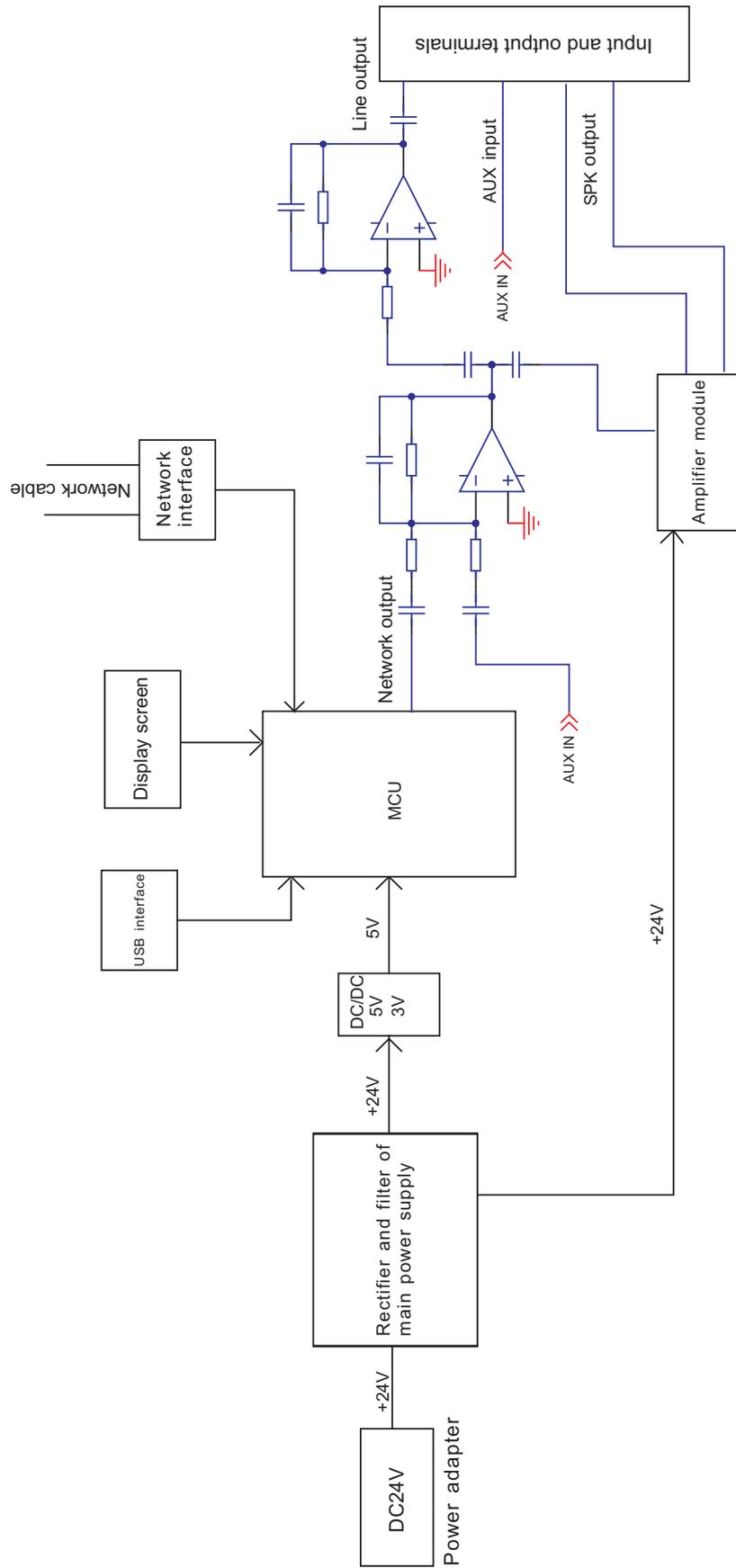
8) In the menu interface, you could use the direction button of the remote control to select and enter the confirmation interface of the terminal. It supports locking the screen of terminal. The interval of the lock screen is shown as below:



7. WIRING DIAGRAM



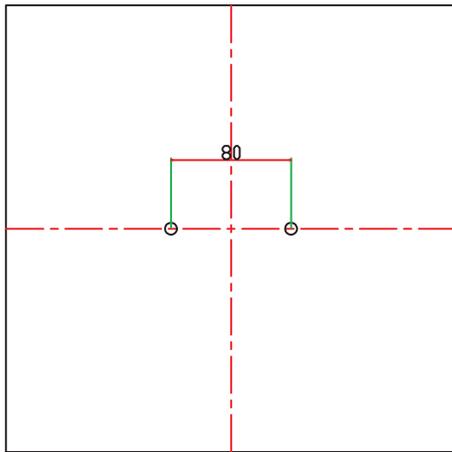
8. BLOCK DIAGRAM



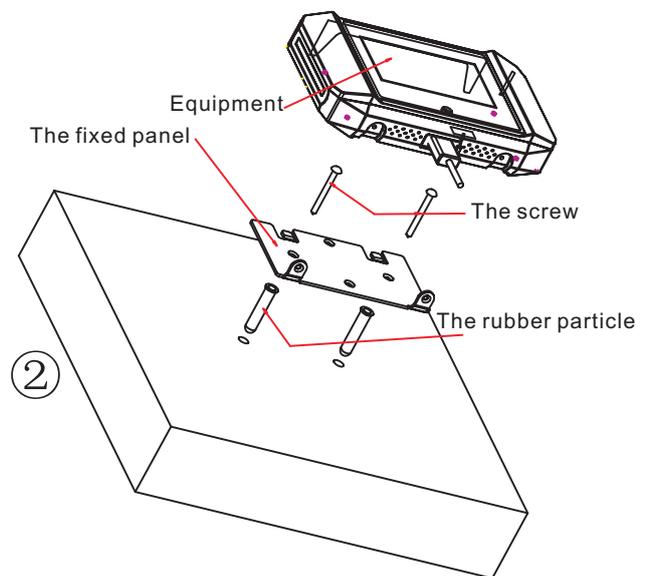
9. SPECIFICATIONS

Model	T-7705A
Network Interface	Standard RJ45 input
Support protocol	TCP/IP, UDP, IGMP (Multicast)
Audio Format	Mp3
Sampling Rate	8K~48KHz
Transmission rate	100Mbps
Audio mode	16 bit CD tone quality
Display size	4.3 inch
Display type	Color display
Operating Mode	infrared remote control
Remote Control Distance	≥10m, straight line, no obstacle
External speaker impedance and Rated Power	8 Ω , 2x10W
THD	≤1%
Frequency response	80Hz~16KHz +1dB/-3dB
SNR	≥68dB
AUX IN Input Sensitivity	350mV connector of industrial standard
MIC Input Sensitivity	5mV
Operation temperature	5°C~40°C
Operation humidity	20%~80% relative humidity without moisture condensation
Power Consumption	≤70W
Input power	DC 24V
Dimensions	190x110x40mm
Weight	1Kg

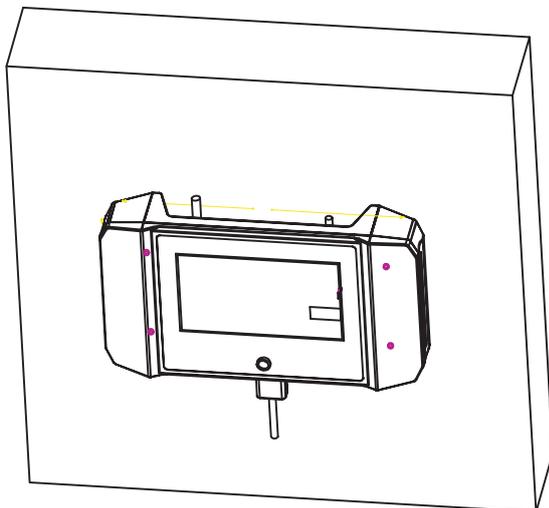
10. INSTALLATION METHOD



①



②



③

Installation steps:

1. Punching in the wall.
2. Insert the rubber particle of M8 into the hole.
3. Align the hole position of the fixed panel to the hole of the rubber particle.
4. Fix the screw of M4*35 of panel.
5. The machine need to be locked in the fixed plate and fixed the lower end of panel with screw.

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VersionV0.1

