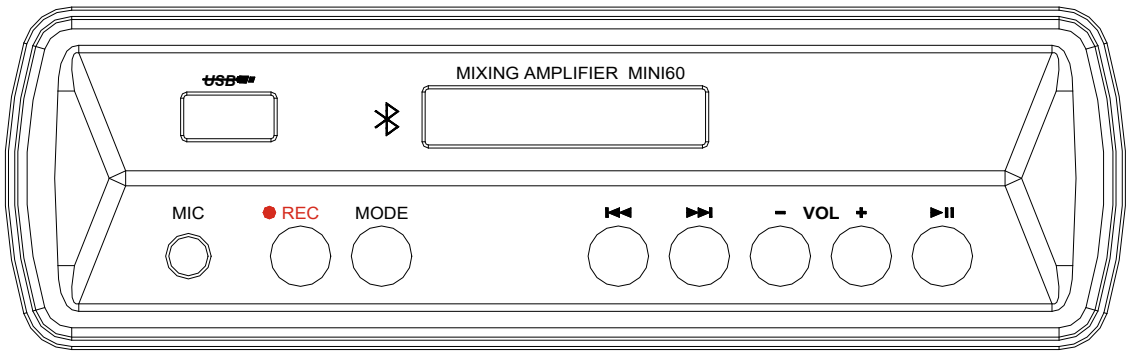
Digital Mini Amplifier

Mini60



User's Manual

Welcome to use DSPPA public address system. For the better use of this product, please read this instruction carefully prior to use.

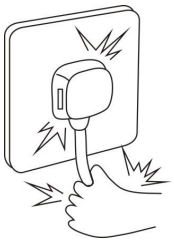
Guangzhou DSPPA Audio Co., Ltd
http://www.dsppatech.com

⚠Caution

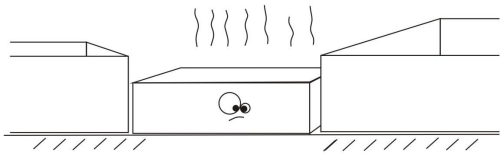
To assure the finest performance, please use or operate the product in accordance with corresponding instructions.

This symbol indicates "forbidden content" **This symbol indicates "compulsory content"**

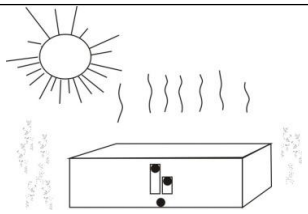
■ Please make sure that the power wire is NOT damaged. Do NOT unplug the equipment by pulling the power wire; otherwise it may cause electric shock, short circuit or fire.



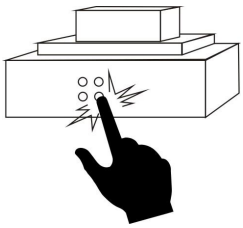
■ When the equipment is in use, DO NOT block the air outlet which should be kept clear, in order to avoid overheat.



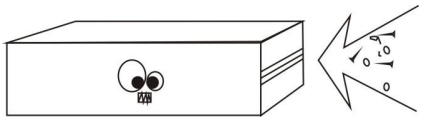
■Do NOT store this equipment in any place with heavy dust or vibration, or where it is extremely cold or hot.



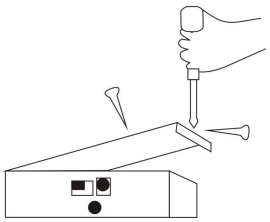
■ Please do NOT place any heavy article on this equipment. Please operate switches, buttons or external audio source carefully.



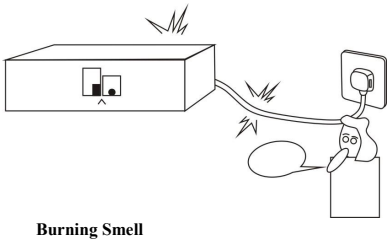
■ Please prevent foreign matters (such as paper, metal etc.) entering the equipment through the gaps or opening, in such cases, please cut off the power supply immediately.



■ Do NOT attempt to remove any internal component from the equipment, or to modify the equipment in whatever manner.

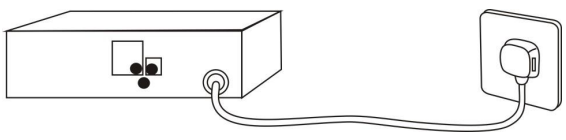


■ In case that sound is suddenly off or there is abnormal odor or smoke, please unplug the equipment from the power socket to avoid potential electric shock, fire or other accident. The equipment should be inspected by professional personnel.



Burning Smell

■ If the equipment is not in use for a long period, please unplug it from the AC power socket to realize zero energy consumption.



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1. Product Introduction

1.1 Introduction

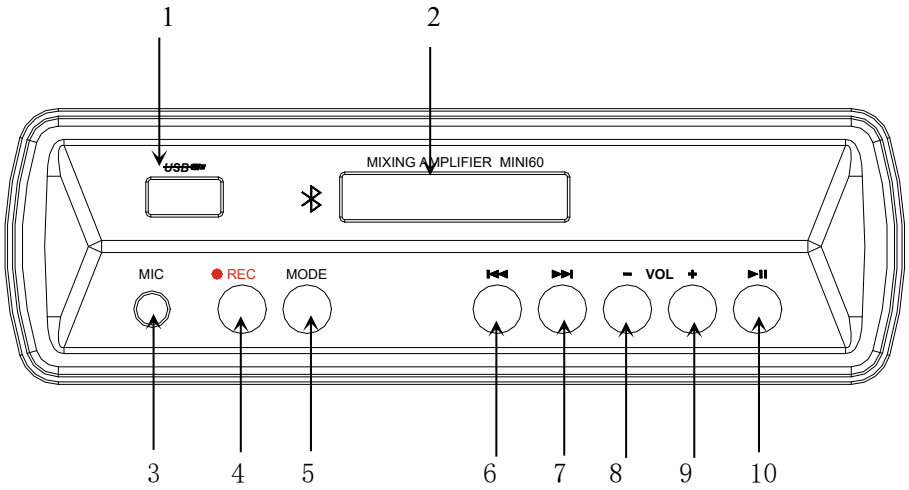
MINI60 is a small acoustic amplification system featured by simplicity and high cost performance, and applicable to the small-sized broadcast system, the background music in the small-sized supermarket, and public address in the classroom. The system consists of the latest high-performance ARM core master control and high-efficiency energy-saving digital power amplifier circuit.

1.2 Features

- Wireless Bluetooth playing.
- Voice recording function (AUX mode).
- Playing of USB/SD mobile storage media.
- One channel of stereo line input/output.
- External connection to 12-24V DC power supply.
- Aluminum-alloy casing, small volume and portable, robust and durable.
- The internationally acceptable phoenix socket is used for output in order to facilitate the construction of the audio engineering.
- High-performance and stable stereo digital power amplifier with the protection measures for overheating and overloaded output and short circuit.

2.Description of Appearance

2.1 Description of front panel



1. USB interface
It supports USB3.0, USB2.0 and the USB disk with the capacity less than 32G, with good compatibility.

2. Digital display screen
It displays the status of the current mode.

3. Microphone input
It is inserted into the microphone. The volume can be adjusted only under the mode of AUX.

4. REC recording key
When switching over to the AUX (line input) mode and the USB disk/SD is available, press this key to record the signal from AUX or microphone, and then store in USB disk/SD (In the format of MP3); during the process of recording, press this key again to finish the voice recording.

5. MODE switching key
Mode switching key. It is possible to switch over among the Bluetooth playing mode (BLUE), USB disk playing mode (USB) and line input mode (AUX).

6. Previous song
Under the USB disk mode and Bluetooth playing mode, press the previous song key for a long term to select the increase of the treble equilibrium within the range of -5 to 0 to +5.

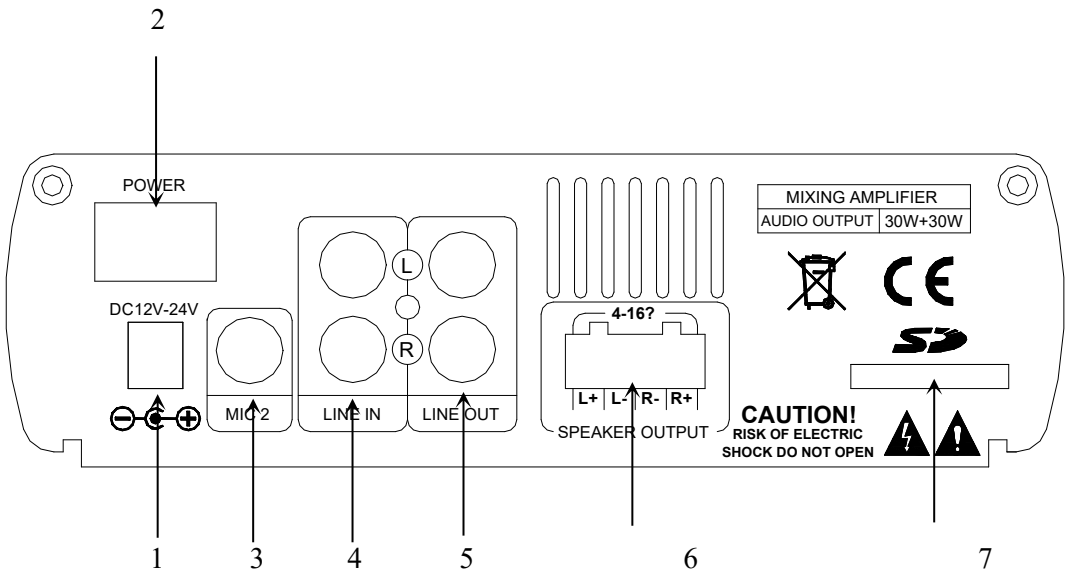
7. Next song
Under the USB disk mode and Bluetooth playing mode, press the next song key for a long term to select the increase of the bass equilibrium within the range of -5 to 0 to +5.

8. Increase of volume
The master volume is increased by 0-32.

9. Decrease of volume
The master volume is decreased by 0-32.

10. Play/pause key

2.2 Description of rear panel



1. Power input interface
DC12V~24V.

2. POWER supply switch
It is used to turn on or off the power supply.

3. 6.35 MIC input interface
Connect with MIC.

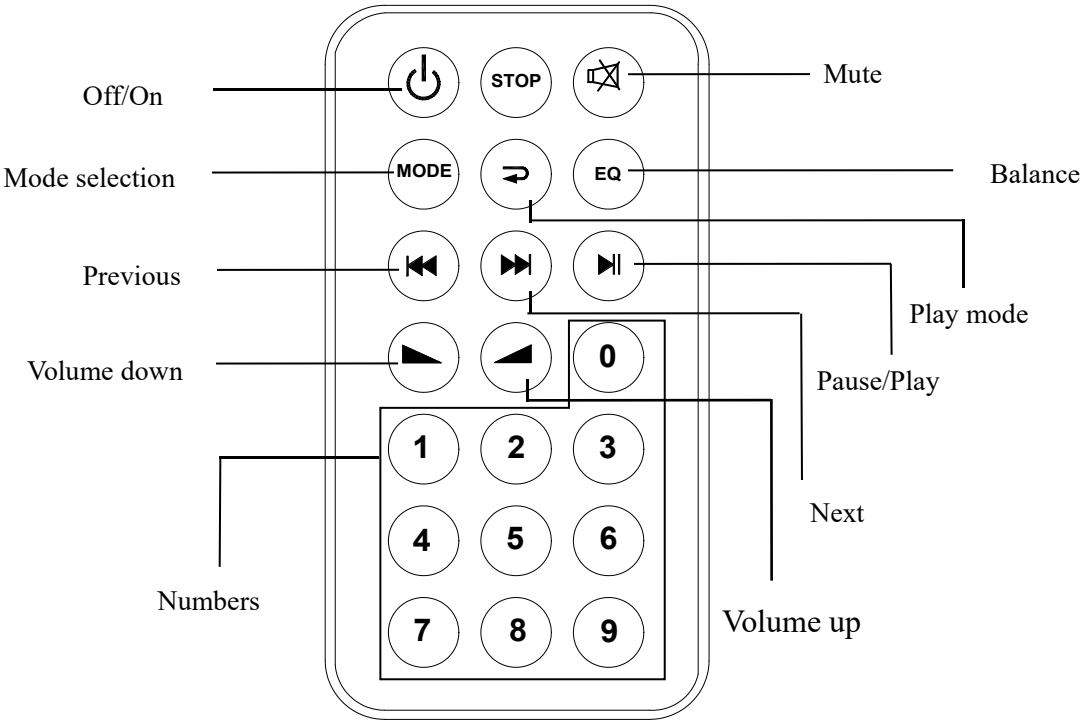
4. LINE IN auxiliary output interface
It is used for input of the signal from external sound source. Stereo input.

5. LINE OUT auxiliary output interface
It is used to connect the external power amplifier input.

6. SPEAKER OUTPUT
The output terminal of the power amplifier. The system allows the connection of the 4Ω-16Ω loudspeakers. The loudspeaker may be connected to 8 DSPPA (8Ω) ceiling speakers in two groups to the maximum extent. Please see the description below for the connection mode.

7. SD interface
It is used to connect the external SD card with great capacity. When SD card is inserted, it will play automatically.

2.3 Description of remote



Note:

1. On/Off: long press On/Off
2. Mute: close output of speakers
3. Mode selection: switch among LINE, USB, SD and BLUE
4. Play mode: ONE: single loop
   ALL: List loop
   RAN: random playback
   INTO: preview
5. Balance: POP, CLA, ROC, JAZ, FLA.

3.Operation Introduction

3.1 Operation introduction of USB Disk and SD mode

(1) When the device is connected to power supply, open the power switch on rear panel. Press MODE to switch working mode. When USB disk is inserted, press MODE to switch to USB disk mode. Display screen will show LOAD (loading, please wait for 1-3 seconds) then it will enter USB play mode. You will see the following interface:



(2) Press PAUSE to pause playback.



(3) When insert SD card, system will switch to SD card play mode.



(4) Press PAUSE to pause playback.



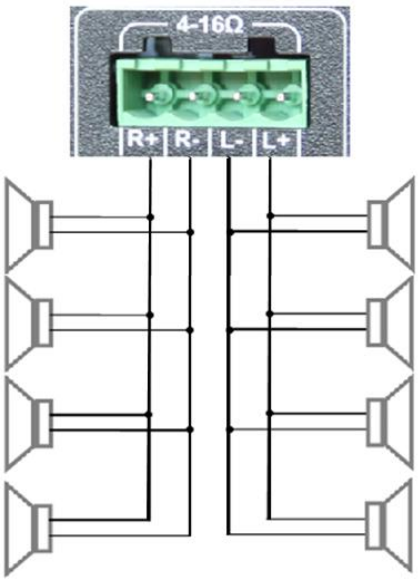
3.2 Recording instruction

Press REC to start recording. When you need to pause, just press PAUSE on the panel. Press it again to continue to record.



4.Operation Instruction

4.1 Connection of amplifier



(The output of the power amplifier is the bridging output; the negative output shall not be connected to the enclosure or grounded)

5.Working Mode

5.1 Microphone Broadcast Mode

In case of the microphone broadcast in any mode, the system will test the voice of the microphone to mute the other sound sources. If there is no signal from the microphone for 5s, it will restore the original status of playing. The volume shall be adjusted only in the LINE mode.

5.2 Bluetooth Mode

Press the MODE key to enter the digital screen displaying BLUE, and the name of such bluetooth is “Bluetooth audio player”. It has the excellent wireless transmission function for the range of visibility at the wireless transmission distance less than 10m.

5.3 USB disk/SD Mode

When connecting USB disk, it is necessary to press the MODE key to enter the USB disk playing status; when

inserting the SD card, it will switch over to the playing of SD card automatically.

5.4 Line Mode

In the line mode, press the MODE key to enter, and the digital screen will display LINE.

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.dsppatech.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	Quantity
1	MINI60 Amplifier	1
2	20V/4.5A power adapter	1
3	Power cable	1
4	Infrared remote	1
5	User manual	1
6	Warranty card	1
7	Certificate	1
8	Installation screws	3
9	Installation rubber nails	3
10	4P phoenix plug	1

Specification

Note: The performance specifications are subject to changes without further notification.

No.	**Item**	**Indicator**	**Measurement**	**Note**
1	LINE input sensitivity	310	mV	
2	MIC input sensitivity	10	mV	
3	Frequency response	20～20k	Hz	±3dB
4	Noise	2	mV	Output terminal of amplifier
5	Distortion	<1%		
6	Rated voltage	20	V	DC
7	Rated output power	2×30	W	
8	Max power consumption	90	W	
9	Dimension	180×163×55		L×W×H
10	Package size	297×223×108		1PS
11	Max packing size	608×458×338		12PS
12	Net weight	0.82	Kg	Without power adapter
13	Gross weight	1.5	Kg	1PS

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.

Guangzhou DSPPA Audio Co., Ltd