



Digital Mini Amplifier MINI60



Operation Instructions

Welcome choosing our public address system. For the better application of this equipment, please read the operation instruction carefully prior to use.

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A. General Instruction

1.1 Description

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.

Specification

Item	Indicator	Remark
AUX input sensitivity (Input/Sensitivity)	-6dBV	OUT 30W×2 DC 20V
MIC input sensitivity (Input/Sensitivity)	-45dBV	
Power output (Power Output)	2×30W	
Static power consumption (Power)	0.24W	
Maximum power consumption (Max Power)	90W	
Degree of distortion (Harmonic Distortion)	1%	4Ω/10W×2
Signal to noise ratio (S/N Ratio)	MIC: 73dB	AUX: 55dB
Range of power supply (Power Supply)	DC 12V~24V	
Frequency response (Frequency Response)	MIC: 100Hz~16kHz	±3dB
Outline dimension (L×W×H mm)	180×145×60	
Weight (Weight)	0.8Kg	Without power adapter

The performance specification is changed without prior notice.

Attention

- If the power switch of the equipment is “off”, the machine is not disconnected to the grid; for the purpose of safety, please pull the power line plug out of the socket if this equipment is not in service.
- This equipment shall not suffer from water dripping or spraying. Do not place the vase full of water onto the equipment.
- Do not open the cover plate of the machine without authorization to prevent electric shock. The repair shall be conducted by the professional with professional certificate if necessary.
- The terminal marked with ⚡ in the equipment indicates the hazardous electrification. The connection of such terminal shall be completed by the trained personnel.
- This equipment is connected to the power supply of the grid with the power line plug; in case of any fault or risk in the equipment, pull out the power line plug to disconnect the connection between the equipment and the grid; therefore, the power line plug shall be put in the place easy for plug-in/out of the power line.

D. Working Mode

4.1 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 AUX mode.

4.2 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.

4.3 U-Disk/SD Mode

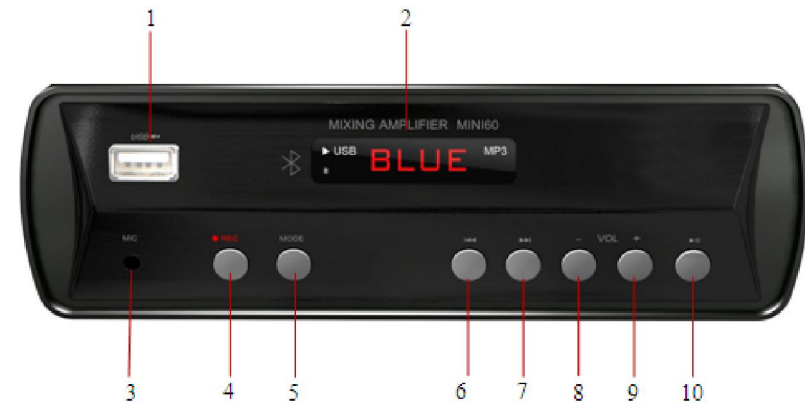
When connecting U-disk, it is necessary to press the MODE key to enter the U-disk playing status; when inserting the SD card, it will switch over to the playing of SD card automatically.

4.4 Line Mode

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

B. Appearance

2.1 Front Panel



1 . USB interface

It supports USB3.0, USB2.0 and the U-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 U-disk/SD is available, press this key to record the signal from AUX or microphone, and then store in U-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), U-disk playing mode (USB) and line input mode (AUX).

6 . Previous song

Under the U-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 U-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

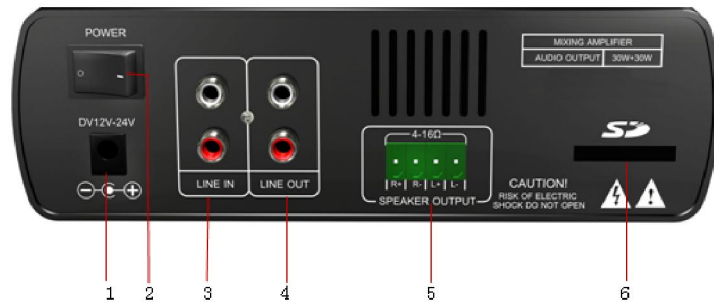
The master volume is increased by 0-32.

9 . Decrease of volume

The master volume is decreased by 0-32.

10 . Play/pause key

2.2 Rear Panel



1 . Power input interface

DC12V~24V.

2 . POWER supply switch

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

3 . LINE IN auxiliary input interface

It is used for input of the signal from external sound source. Stereo input.

4 . LINE OUT auxiliary output interface

It is used to connect the external power amplifier input.

5 . SPEAKER OUTPUT

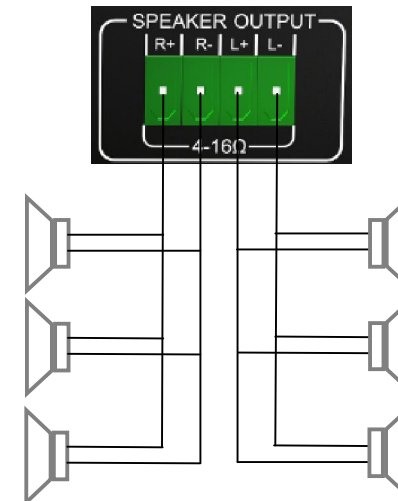
The output terminal of the power amplifier. The system allows the connection of the 4Ω-16Ω loudspeakers but not those less than 4Ω, which will cause the overloading protection of the system. The loudspeaker may be connected to 6pcs 8Ω ceiling speakers in two groups to the maximum extent. Please see the description below for the connection mode.

6 . SD interface

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

C. Connection

3.1 Connection Mode of Power Amplifier



(The short circuit of the terminals between the left and right channels shall not be allowed; the output of the power amplifier is the bridging output; the negative output shall not be connected to the enclosure or grounded)