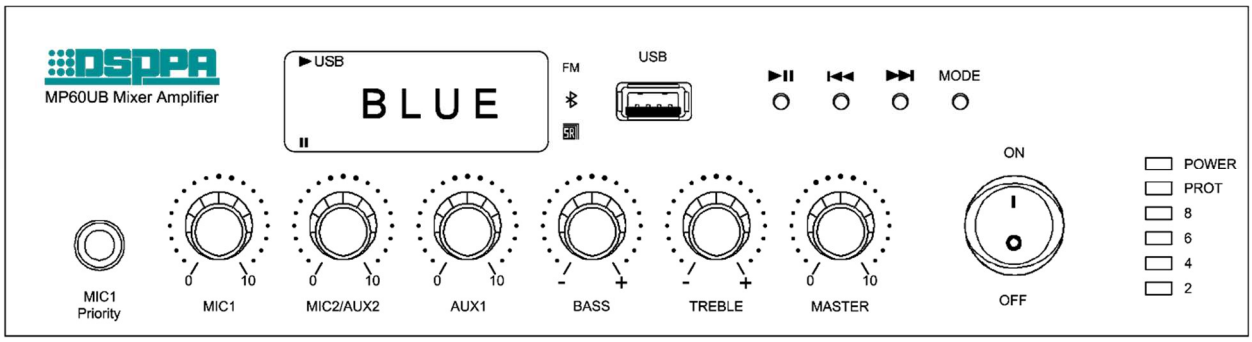
ADS
AUDIO DESIGN SERVICES

Public Address System

MS60D **Mini Mixer Amplifier**



Operating Instructions

Please read this instruction carefully prior to use.

About this User Manual

This User Manual is available and effective upon completion of development of the mixer amplifier MS60D. 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.

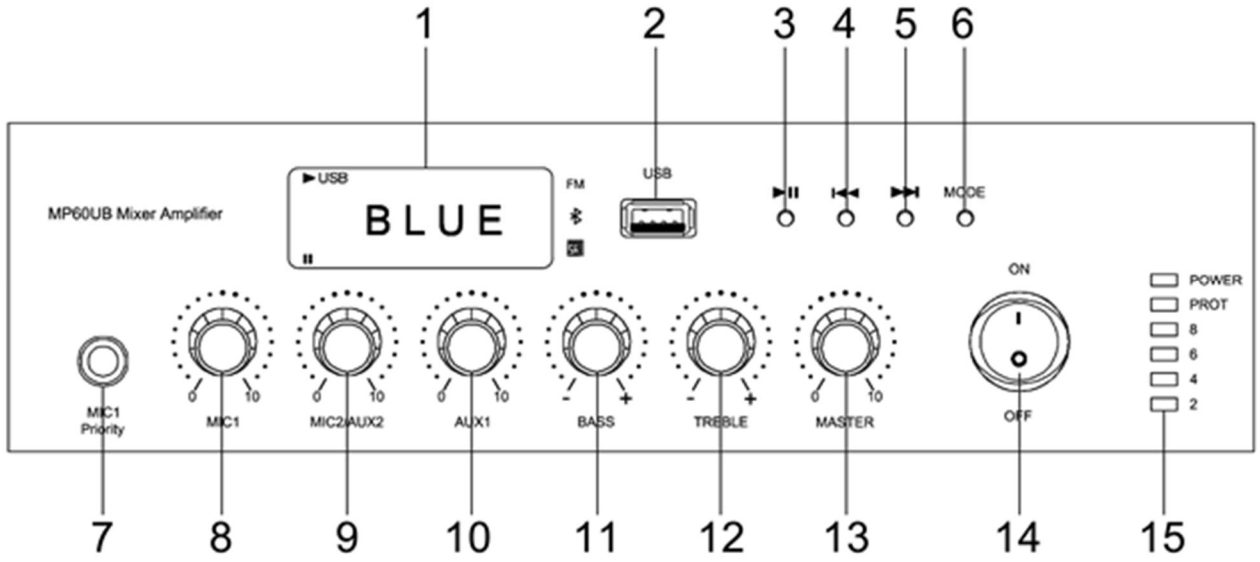
1. Product Description

1.1 Features

- Built-in radio function;
- 2 MIC inputs, 1 EMC input, 2 line inputs, 1 line output;
- Speaker output of 100V or 70V & 4 -16 Ω;
- Bluetooth and USB function;
- Infrared remote control;
- With master volume control, individual volume control of MIC & Line; treble and bass volume control.

2. Appearance Description

2.1 Front panel



1. **Display screen**

2. **USB interface**

   Insert the USB to provide program to the built-in MP3.

3. **Play / Pause**

   In USB and Bluetooth mode, pause & play;

   In FM mode, this key is to search the audio automatically.

4. **Last song/（Last radio when in FM mode）**

   In USB and Bluetooth mode, press this key to switch to the “last song”;

   In FM mode, press this key to switch to the “last radio”;

In FM/Bluetooth/USB mode, long press this key to turn down the volume.

Next song/（Next radio when in FM mode）

In U-disk and Bluetooth mode, press this key to switch to the “next song”;

In FM mode, press this key to switch to the “next radio”;

5. In FM/Bluetooth/USB mode, long press this key to turn up the volume.

Mode main function key

Bluetooth mode, USB mode, AUX input mode, FM mode can be switched.

6.

7. **MIC1 Input**
This button has priority function. (MIC1-MIC2-Music)

8. **MIC1 volume adjustment**
Adjust the volume of MIC1, turn clockwise to turn up, turn counter clockwise to turn down.

9. **MIC2/AUX2 volume adjustment**
Adjust the volume of MIC2/AUX2, turn clockwise to turn up, turn counter clockwise to turn down.

10. **AUX1 volume adjustment**

Adjust the volume of AUX1, turn clockwise to turn up, turn counter clockwise to turn down.

11. **Bass volume adjustment**

The central position as the benchmark, turn counter clockwise to turn down the bass, turn clockwise to turn up the bass.

12. **Treble volume adjustment**

The central position as the benchmark, turn counter clockwise to turn down the treble, turn clockwise to turn up the treble.

13. **Master volume adjustment**

Adjust the level of all signals (except EMC), turn clockwise to turn up the volume, turn counter clockwise to turn down the volume.

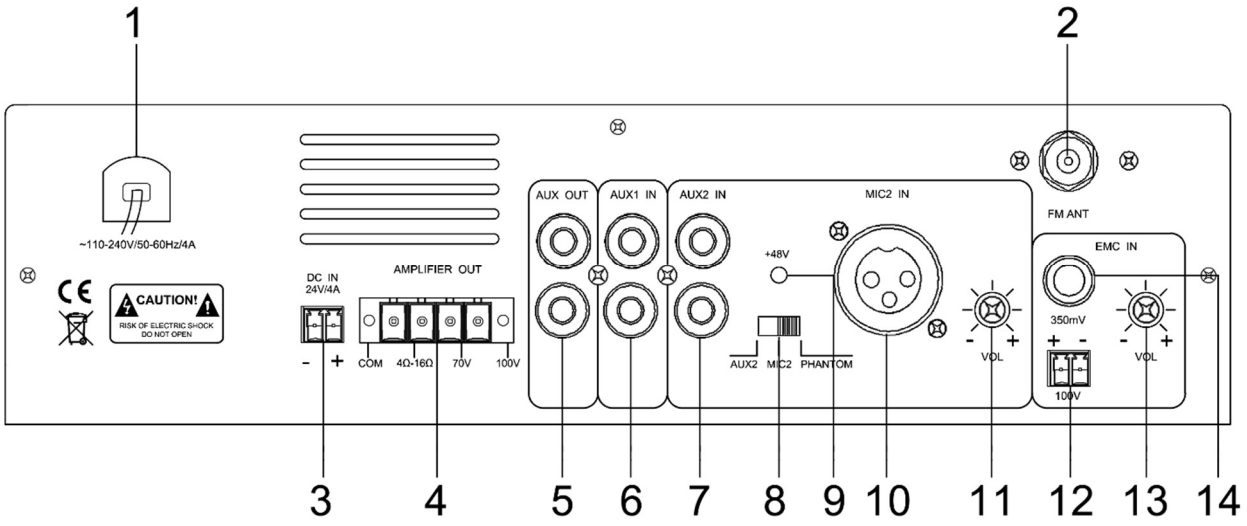
14. **Power switch**

Press “ON” to turn on the power, press “OFF” to close the power.

15. **Level indicator**

Audio output level display.

2.2 Rear panel



1. **AC~110-240V 50/60Hz Power input**

   The interface is to supply the working power. Insert the plug onto the machine, and then connect the power grid.

2. **Radio antenna interface**

   Radio antenna connects to this interface.

3. **DC 24V power input**

   DC 24V stand-by power input interface.

4. **Audio power output**

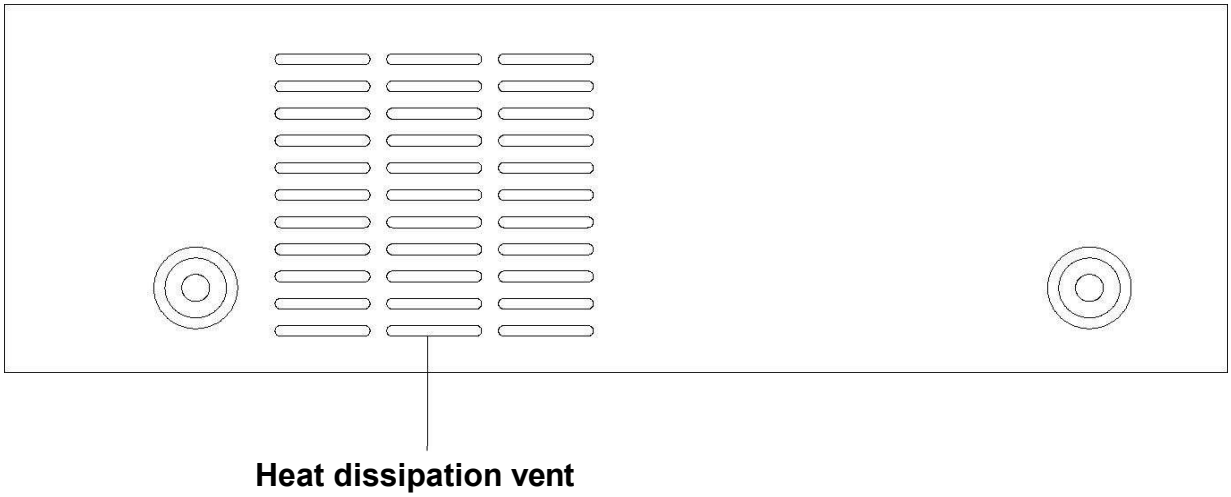
   Note: No terminal is connectable to “Earth wire” no matter directly or through other devices.

5. **AUX output**
6. **AUX1 input port**
7. **AUX2 input port**
8. **Audio source selection switch（AUX2-MIC3）**

   AUX2, MIC2/48V phantom power selection switch, left and right slide to choose.

9. **Indicator of 48V phantom power**
10. **MIC2 balanced input interface**
11. **AUX2/MIC2 volume control**
12. **100V emergency signal input**
13. **Volume control of emergency input**
14. **General emergency signal input port**

2.3 Side Panel



3. Working mode

3.1 MIC mode

When the Microphone is broadcasting in any mode, the system will detect the MIC and mute the others sources. It will return to the original play status when the MIC has no signal.

3.2 Bluetooth mode

Press MODE to display “BLUE” on the digital screen, the “BLUE” will always flash until device and mobile phone pairing success, the name is “Bluetooth”. After finishing the pairing, the user can play music on the mobile phone. With excellent wireless transmission function, and the wireless transmission distance is 10m.

3.3 USB mode

When the USB accesses, it will be USB mode automatically (plug and play).

3.4 Line mode

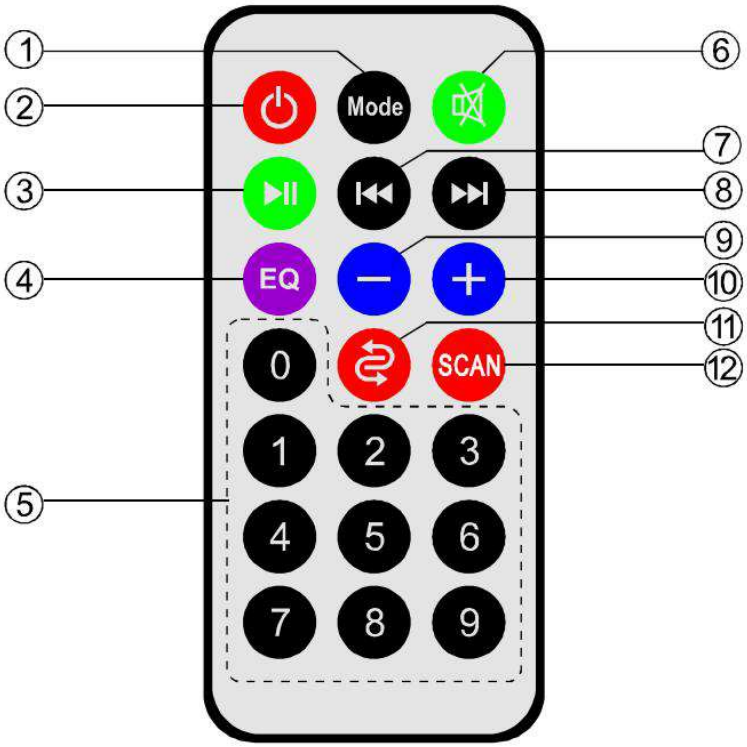
In line mode, press MODE, digital screen will display “AUX”.

3.5 FM mode

Operation details please refer to the part 3, 4, 5 of “2.1 front panel”.

4. Remote control instructions

As shown in the following figure:



Function key description：

① Mode main function key， working mode switch.

② Power switch (only control Bluetooth/USB/FM)

③ Play & Pause/（Search the audio automatically when in FM)

④ EQ sound effect

⑤ 0-9 song selection key, can be composed of digital channel selection when in FM

⑥ Mute key

⑦ Last song/（Last audio when in FM）

⑧ Next song/（Next audio when in FM）

⑨ Vol -

⑩ Vol +

⑪ Cycle

⑫ No use

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.

Packing list

No.	List	Quantity
1	MS60D	1
2	Manual	1
3	Warranty Card	1
4	Certificate	1
5	Power line	1
6	Remote control	1
7	FM antenna	1
8	4P green wiring terminal with locks/ 2ERJKM-5.08-4P	1
9	2P green wiring terminal	2

Performance

Power	~110-240V 50/60Hz
Mic 1/2 Sensitivity	10mv
Aux 1/2 Sensitivity	360mV
EMC Sensitivity	360mV
Mic frequency response	100Hz - 10Kz ±3dB
Aux frequency response	80Hz - 16KHz ±3dB
THD	<1% @ 1KHz
Treble	±10dB
Bass	±10dB
Power Output	60Watts
Gross weight	3.25Kg

Technical specifications are subject to changes without prior notice.

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.

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