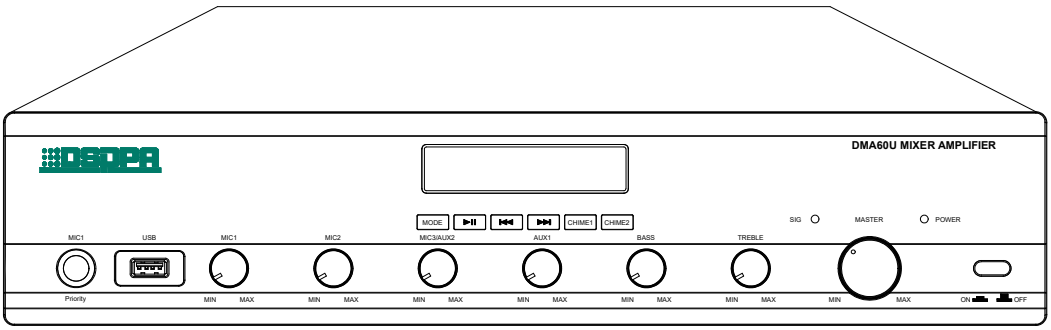
Classic Mixer Amplifier

www.dsppatech.com

DMA60U
DMA120U
DMA250U
DMA350U
DMA500U
DMA650U



User Manual

Guangzhou DSPPA Audio Co., Ltd.

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About the Manual

This User Manual is available and effective upon completion of development of Mini Mixer Amplifier. The User Manual includes system introduction, matters needing attentions, instructions on system connection, and instructions on use of product of dual-channel professional digital amplifier. 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.

DMA—V2.1
Facture 2025-09-15

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 ϟ 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.

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Introduction

Thanks for using our products. All our products are tested strictly before leaving the factory, with guaranteed quality. Our products are widely used in such places as schools, gymnasiums, square halls, parks, parking lots, railway stations, airports, villa communities and mall supermarkets, etc., and they will be your ideal choice for public address system.

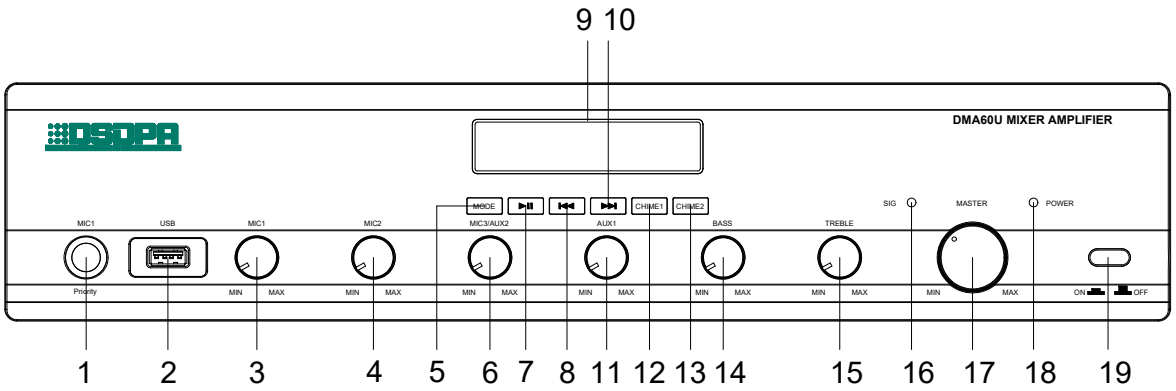
For better installation, commissioning and use of the product, please read this manual in detail before installation.

Product Overview

Product Features

- With segment code tube screen, and intuitive display, more convenient for users to use.
- With built-in Bluetooth, FM and USB function.
- With 3 MIC IN, 1 EMC IN, 2 AUX IN, 1 AUX OUT.
- Support 100V and 70V constant voltage output, and 4Ω ~ 16Ω constant resistance output.
- Can be controlled by the infrared remote controller.
- With priority function, and the priority is MUTE>EMC=Alarm=Chime>MIC1>Others (When there is an alarm, no chime can be output).
- With master volume control, independent volume control of MIC and AUX, and TREBLE and Bass volume control.
- With SIREN short circuit trigger function, which can be remotely controlled by this machine or controlled by other devices, with independent alarm output.
- With MUTE short circuit trigger function, which can be remotely controlled by this machine or controlled by other devices.
- With 1 EMC IN, which can be used to input alarm signals from other devices to this machine.
- With power-off memory function.

Front Panel



1. MIC1 IN

2. USB Port

Insert a USB to provide programs for the built-in MP3.

3. MIC1 Volume Control

Adjust MIC1 volume, turn clockwise to turn up the volume, and turn counterclockwise to turn down the volume.

4. MIC2 Volume Control

Adjust MIC2 volume, turn clockwise to turn up the volume, and turn counterclockwise to turn down the volume.

5. Mode Button

It can switch to line input mode (AUX), USB mode (USB), Bluetooth mode (BLUE), and FM mode (FM).

6. MIC3/AUX2 Volume Control

Adjust the volume of MIC3/AUX2, turn clockwise to turn up the volume, and turn counterclockwise to turn down the volume.

7. Play/Pause Button

- In USB and Bluetooth mode, press this button to pause / play.
- In FM mode, press this button to search the radio automatically.

8. Previous Song / (Previous Radio in FM)

- In USB and Bluetooth mode, press this button to switch to the “Previous Song”.
- In FM mode, press this button to switch to the “Previous Radio”.
- In FM/Bluetooth/USB mode, long press this button to turn down the volume.

9. Display Screen

10. Next Song / (Next Radio in FM)

- In USB and Bluetooth mode, press this button to switch to the “Next Song”.
- In FM mode, press this button to switch to the “Next Radio”.
- In FM/Bluetooth/USB mode, long press this button to turn up the volume.

11. AUX1 Volume Control

Adjust AUX1 volume, turn clockwise to turn up the volume, and turn counterclockwise to turn down the volume.

12. Chime 1 Button

- Press this button to play Chime 1 at the default maximum volume. At this time, this indicator at the lower right corner of the display screen is green, and it will be off after the Chime 1 finishes playing.
- Long press this button and release it to decrease the volume of Chime 1/Chime 2 gradually from 15 to 0. Each time the volume is adjusted, the indicator at the lower right corner of the display screen will flash a green light, and when the volume is adjusted to the maximum or minimum, the indicator will turn green on for 2-3s.

- Each time the machine is powered off and restarted, the volume will automatically return to the maximum.

13. Chime 2 Button

- Press this button to play Chime 2 at the default maximum volume. At this time, this indicator at the lower right corner of the display screen is green, and it will be off after the Chime 2 finishes playing.
- Long press this button and release it to increase the volume of Chime 1/Chime 2 gradually from 0 to 15. Each time the volume is adjusted, the indicator at the lower right corner of the display screen will flash a green light, and when the volume is adjusted to the maximum or minimum, the indicator will turn green on for 2-3s.
- Each time the machine is powered off and restarted, the volume will automatically return to the maximum.

14. BASS Volume Control

Take the central position as the benchmark, turn counterclockwise to turn down the bass, and turn clockwise to turn up the bass.

15. TREBLE Volume Control

Take the central position as the benchmark, turn counterclockwise to turn down the treble, and turn clockwise to turn up the treble.

16. LEVEL LED

Display the audio output level.

17. MASTER Volume Control

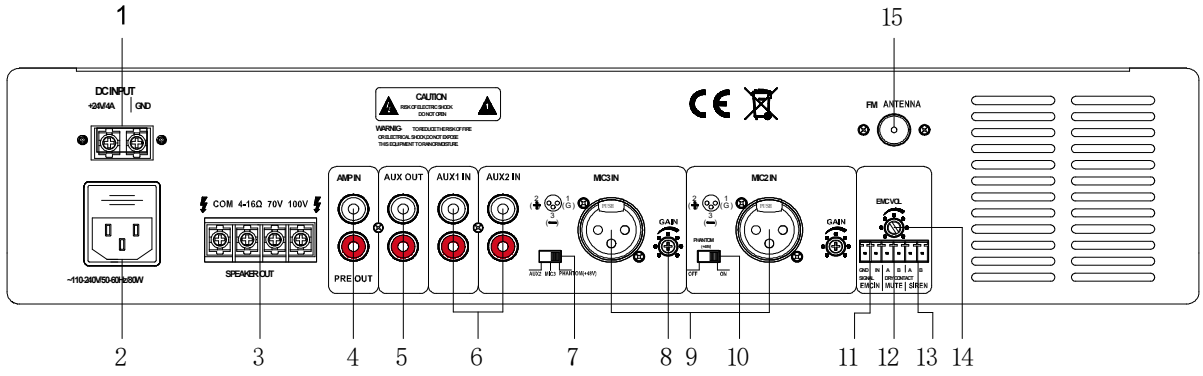
Adjust the level of all signals (except for EMC IN on the rear panel), turn clockwise to turn up the volume, and turn counterclockwise to turn down the volume.

18. POWER LED

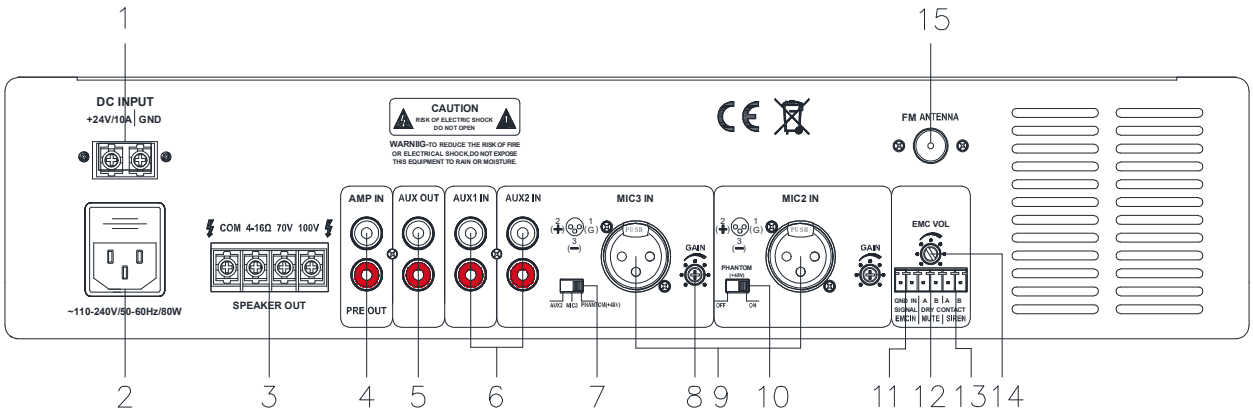
19. POWER

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

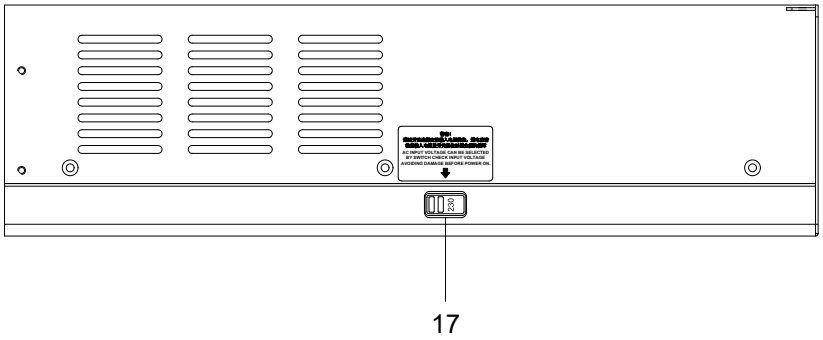
Rear Panel



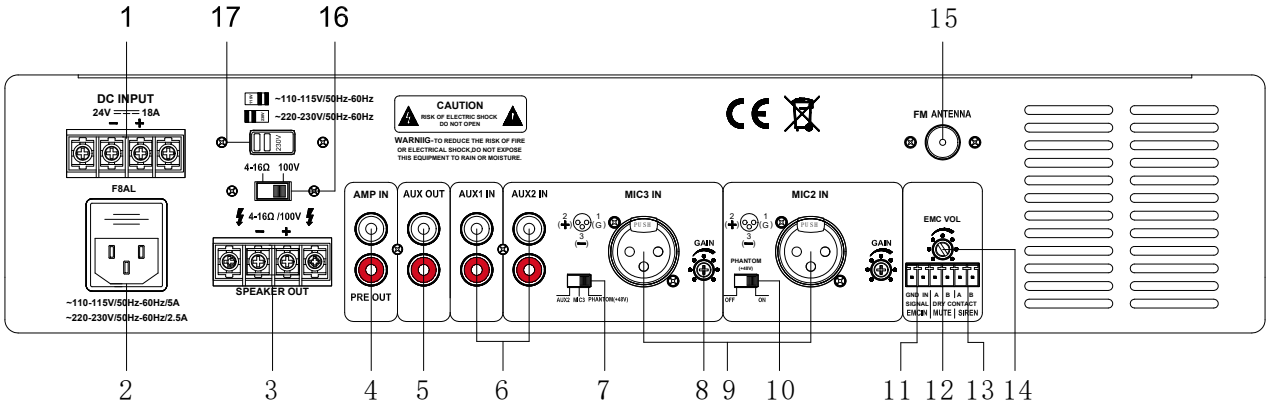
DMA60U/DMA120U Rear Panel



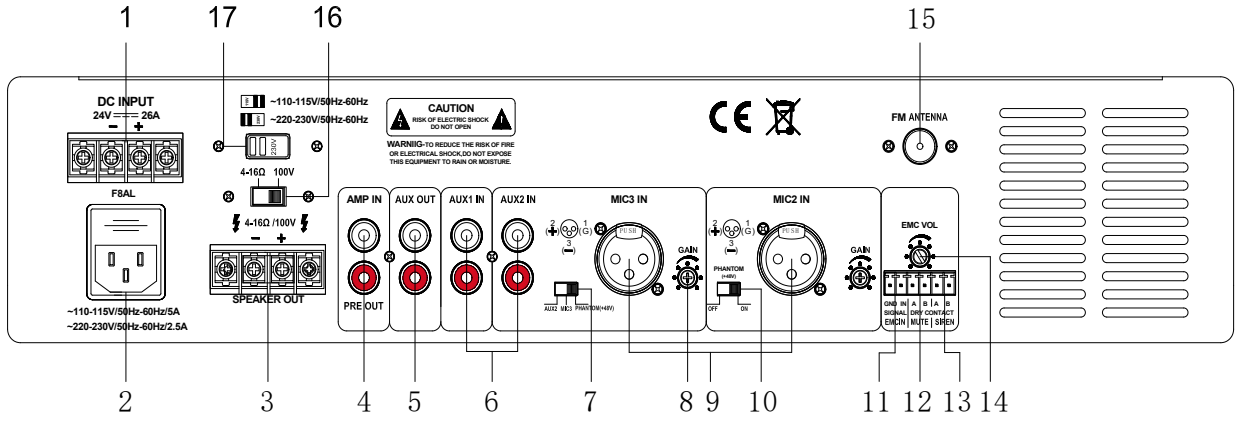
DMA250U Rear Panel



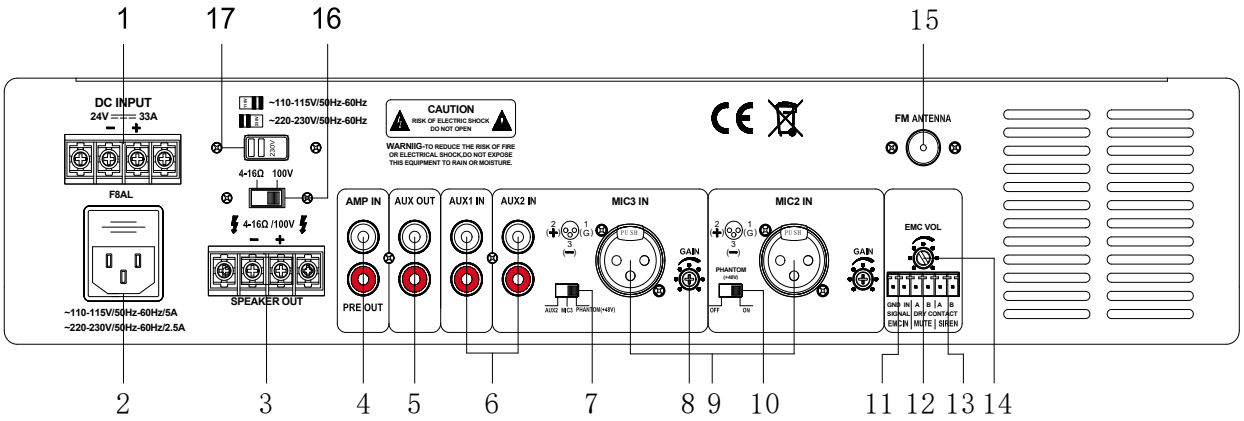
DMA250U Side Panel



DMA350U Rear Panel



DMA500U Rear Panel



DMA650U Rear Panel

1. DC+24V Power Input Port

Use a power supply that meets the specified output current on the silk screen label, otherwise, there may be stuttering due to insufficient power output from the power supply.

2. Power IN Socket

Connect a power plug from this interface. Insert the plug into the machine and then connect the power grid.

3. Constant Resistance and Constant Voltage Output End

Output to constant resistance or constant voltage speakers.

4. Extended Preamplifier Interface

5. AUX OUT

6. AUX1 IN and AUX2 IN

7. Audio Source Selection Switch (AUX2-MIC3. Note: Please turn down the volume or turn off the device before using the switch.)

AUX2 and MIC3/48V. Phantom voltage switch. You can toggle the switch left and right to choose.

8. MIC Gain Control

9. MIC2 and MIC3 Balanced IN

10. Phantom Power Switch

11. EMC Trigger IN

12. MUTE Short Circuit Trigger

13. SIREN Short Circuit Trigger

14. Alarm Gain Control

15. FM Antenna

Connect the FM antenna to this port.

16. Constant-resistance and Constant-voltage Switch (Can switch to 4-16Ω or 100V, only for DMA350U, DMA500U and DMA650U)

Select the output gear through the switch. Please check the output mode and switch gear before power-on to avoid module damage.

17. AC Power Switch (Can switch voltage, only for DMA250U, DMA350U, DMA500U and DMA650U)

Select the AC input voltage through the switch. Please check the input voltage and switch gear before power-on to avoid module damage.

Operating Instructions

1. MIC Mode

In any mode, when there is a broadcasting through the microphone, the system will detect the voice from the microphone and mute other sources; and it will return to the original play status when the microphone has no signal.

2. Bluetooth Mode

Press the MODE button to display “BLUE” on the digital screen. The word “BLUE” will keep flashing until the pairing is successful. Please turn on the Bluetooth of mobile phone or other audio source devices to search the Bluetooth device “MIXER AMP BLUETOOTH” for pairing and audio source playing, with wireless transmission distance≈10m.

3. USB Mode

When a USB is inserted, it will jump to the USB mode automatically (Plug and play).

4. AUX Mode

Press the MODE button to display “AUX” on the digital screen and enter the AUX mode.

5. FM Mode

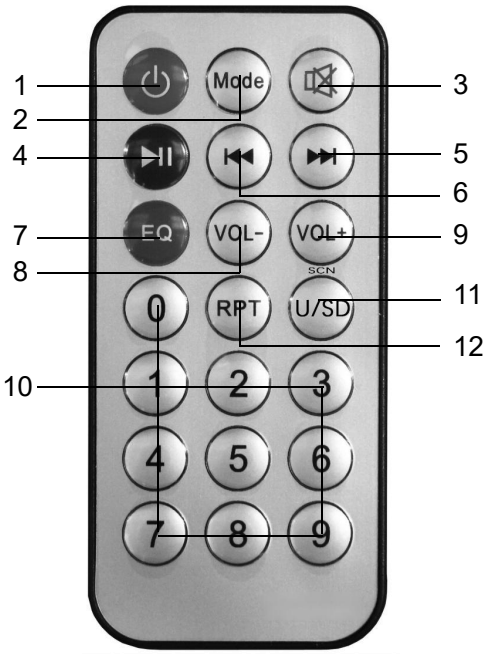
Please refer to the section 6, 8 and 10 of “Front Panel” for operation details.

Press the MODE button, the digital screen displays the radio station FM to enter the FM mode; and then start to play the radio program.

1) Search radio stations: Search radio stations first before playing the radio program. This unit has two methods to search radio stations.
   a. Use the song selection button “ ⏭ or ⏮” on the remote controller to search radio stations. Long press this button to automatically search stations, and it will automatically stop after searching; the channels searched by this method will not be stored according to the number; but if the unit is turned off and restarted, you can still automatically listen to the program of the channel that was playing before the power failure.
   b. Use the ⏯ button on the machine panel or the remote controller to automatically search from the low frequency band to the high frequency band. The searched radio stations will be stored with the storage number starting from 1 in order, which is convenient for calling the radio stations directly in the future.
2) Call radio stations: Use the automatic search method to search the stored radio station channel, and directly call and play it. Use the “⏭ or ⏮” button on the front panel of the machine to select the storage number to call the station for playback, or use the number keys “0-9” on the remote controller to select the storage number to call the station for playback.

Instructions on Remote Controller

The remote controller is as shown below:



1 MP3/TUNER/BT Switch Button

2 Mode: AUX, TUNER, BT & MP3 Sound Source Switching Button.

3 Mute: MP3, TUNER & BT Mute Button. Press this button to mute the program currently being played, and the LED display screen will flash.

4 MP3/BT Play/Pause Button, FM Search Button: In TUNER mode, long press this button to search radio stations automatically.

5 MP3/BT Next Song Button, FM Fast Forward Button.

6 MP3/BT Previous Song Button, FM Fast Backward Button.

7 EQ: In MP3 mode, press this button to select 5 sound effect modes, including Classical, Jazz, Rock, Heavy Bass, and Pop.

8 Volume -: MP3/TUNER/BT volume decrease.

9 Volume +: MP3/TUNER/BT volume increase.

10 Numeric Keys: Select the MP3 playback serial number or store the searched radio programs by number. Press this key to recall the stored radio station.

11 U/SD: In MP3 mode, switch between USB and SD card to play.

12 RPT: In MP3 mode, the switchable playback modes are: single loop, all loop, directory loop and random playback.

Specifications

Model		DMA60U	DMA120U	DMA250U	DMA350U	DMA500U	DMA650U
Power Supply		AC110-240V 50/60Hz		AC110-120V or 200-240V 50/60Hz	AC110-AC115V or AC220-230V 50/60Hz		
MIC1 IN Sensitivity		10mV ±1mv					
MIC2 IN Sensitivity		10mV±1mv					
AUX1 IN Sensitivity		350mV±50mv					
AUX2 IN Sensitivity		350mV±50mv					
EMC IN Sensitivity		350mV±50mv					
MIC Frequency Response		120Hz ~ 12kHz (±3dB)					
AUX Frequency Response		80Hz ~ 15kHz (±3dB)					
Distortion		<1%					
Treble		10dB (±2)					
Bass		10dB (±2)					
Rated Output Power	AC110-240V	60W	120W	250W	350W	500W	650W
	DC24V	60W			175W	250W	325W
Port Output Voltage		4-16Ω,70V,100V (constant-voltage output)			4-16Ω,100V (constant-voltage output)		
Machine Dimensions (D×W×H)		430×280×88mm		430×330×88mm	430×380×88mm		
Package Dimensions		500×450×165mm		500×500×165mm	550×500×165mm		
Net Weight		3.8KG	4.6KG	6.8KG	6.1KG	6.3KG	7KG
Gross Weight		5KG	5.8KG	8.3KG	7.6KG	7.8KG	8.5KG

***Note: When the power supply is switched to 110V, the machine can not be powered by 220V, otherwise it will be burned.**

Packing List

No.	Checklist	Quantity
1	Mini Mixer Amplifier	1 piece
2	Remote Controller	1 piece
3	User Manual	1 copy
4	Power Cord	1 piece
5	6P Green Plug with Lock	1 piece
6	2-pin RCA SC Cap	1 piece
7	FM Antenna	1 piece
8	Handle	2 pieces
9	Plastic Washer	4 pieces
10	Cross Recessed Countersunk Head Screw	4 pieces
11	Cross Recessed Raised Countersunk Head Screw	4 pieces

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