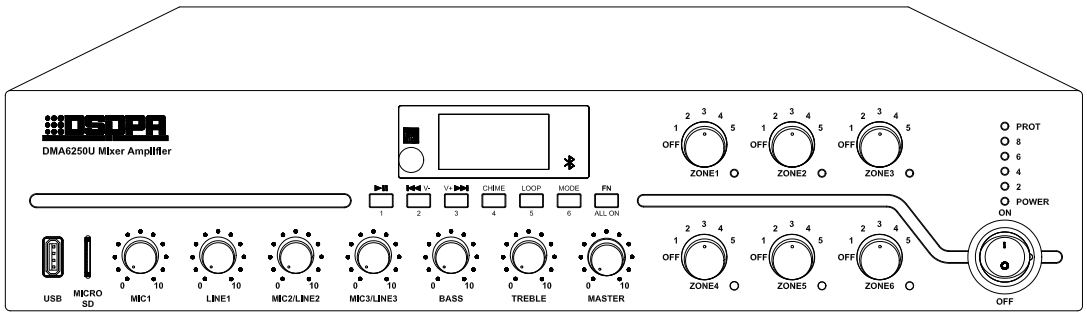
Mixer Amplifier

www.dsppatech.com

DMA6250U
DMA6350U
DMA6500U
DMA6650U



User Manual

Guangzhou DSPPA Audio Co., Ltd.

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About this manual

This manual will be effective since the Mixer Amplifier is in operation. The manual contains related system introduction, use precautions, system connection instructions, product usage instructions of the Mixer Amplifier. Users are expected to read this manual carefully before installing and using and strictly follow the instructions thereof.



The instructions with marks on the rear panel of the machine are all matters that must be paid attention to. Please be sure to use or operate in accordance with these instructions when using it.

Please keep this manual properly in case you need it from time to time.

V1.6
Facture 2025-06-05

Matters Needing Attention

Please read the following carefully before any operation.

⚠ Warning

In order to avoid any potential personal injury as well as loss or damages to equipment or property, please DO follow the basic instructions as given below. Such instructions include with limitation to the following:

Power supply/power wire

• Please hold the plug other than the power wire when trying to remove the plug from sockets. Pulling the power wire may result in damages.
• Please do NOT place the power wire anywhere near the heat source. Please do NOT bend or buckle the power wire or place it where it may be stepped on or may trip passer-by.
• This equipment is connected to the power grid through the plus, so when any fault or danger occurs, the user should remove the plug from the socket to disconnect the equipment from power grid, therefore, it is important to place the power socket where it is easily accessible.
• When the power switch of this equipment is "OFF", the equipment is not disconnected from the power source; therefore, for purposes of safety, the user should remove the plug from power socket when the equipment is not in use.

Installation Location

• Please disconnect the equipment from power source before relocation.
• In order to avoid deformation of the panels and damages to components, please do NOT place the equipment where there is excessive dust, vibration or extreme cold or hot conditions.
• Please keep this equipment off water drops or splash or vase filled with water or any other articles of similar nature.

Connection

• Please disconnect the power supply when the equipment is connected to any other equipment. Please turn the volume down to the minimum level before switching on or powering off the equipment.
• Symbols of ϟ on any terminal in the equipment indicate that such terminal is live and dangerous and any connecting operation should be done by trained personnel.

In case any abnormal condition is detected,

• If the power wire is worn or damaged, resulting in sudden interrupt of sound or abnormal smell or smoke during use, please cut off the power supply immediately and have the equipment inspected by professional personnel.

Matters needing attentions in operation

• Please do NOT put your finger in any gap or opening of the equipment.
• Please keep any foreign matters (paper, plastic or metal) from being inserted in any gap or opening of the equipment. In such cases, please cut off the power supply immediately.
• Please do NOT put any part of your body or any heavy object on the equipment and please be careful when operating any button or switch of the equipment or when connecting the equipment.

Please do NOT disassemble the equipment

• Please do NOT remove the cover of the equipment; otherwise you may get an electric shock.
• Please do NOT attempt to disassemble any component of the equipment or make any modifications in whatever manner. If any abnormal phenomenon is observed, please stop using the equipment immediately and have it inspected by professional personnel.

Other Precautions

• Our company will be take responsibility for data loss or damages resulting from improper user or unauthorized modifications.
• All figures included in this Manual are for description purposes and there may be slight difference in your actual application. Please refer to the actual product.

Contents

Preface 1

Product Overview 1

Features 1

Front Panel 2

Rear Panel 4

Operating Instructions 5

Remote Controller 8

Technical Parameters 9

Packing List 9

Preface

Thank you for choosing our products. All products are strictly tested before leaving the factory, honoring promise of quality. The product is best applied to such places as schools, stadiums, squares, venues, parks, parking lots, the railway station, the airport, the villas, the shopping mall, etc.

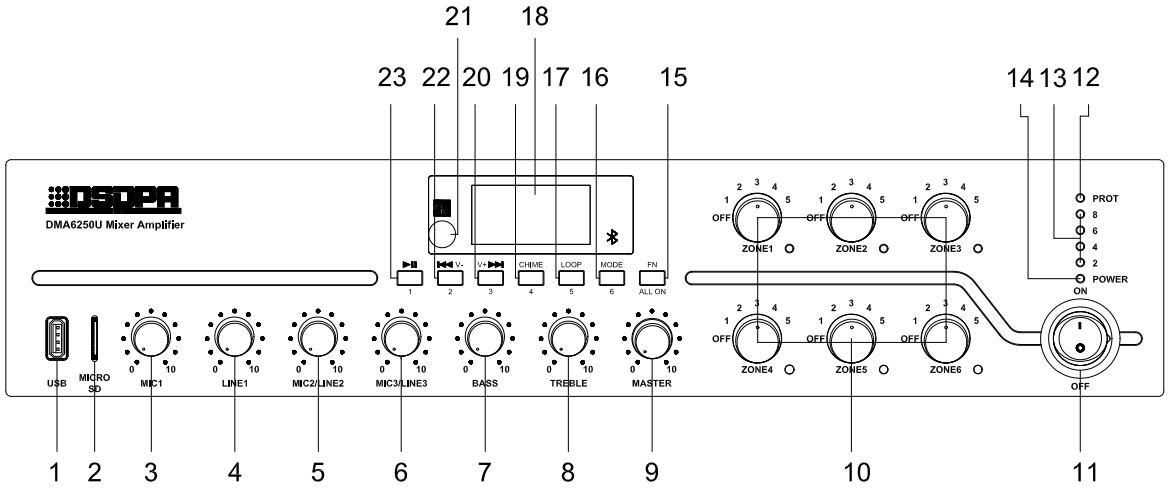
In order to better your installation, debugging and use of this product, please read this manual carefully before installation.

Product Overview

Features

- LCD lattice screen with backlight to display more information, more user-friendly;
- Five-segment level indicator;
- Built-in Bluetooth, FM, MP3 playback;
- Two-channel RJ-45 remote paging microphone interfaces with zone control and strong cut function, DC+24V power supply, 6 paging stations cascaded per channel, as far as 300m-600m transmission distance.
- With independent volume adjustment knob of six zones ;
- With strong cut and one-touch to switch functions when broadcast certain zones;
- AC and DC24V power supply can be turned off;
- 4 microphone inputs, 1 emergency signal input, 4 line inputs and 1 line output;
- 70V/100V fixed voltage output and 4-16Ω fixed-resistance output;
- With priority function, the order is MUTE>EMC IN>SIREN>MIC1>CHIME>Remote paging>LINE1=MIC2/LINE2=MIC3/LINE3=MIC4/LINE4=MP3=BT=FM (no chime output when there is an alarm sound);
- With total volume control; Zone, Siren, Chime, EMC IN, MIC and AUX volume control; treble and bass tone control;
- SIRNE short-circuit trigger function, the device can be remotely controlled or controlled by other equipment, with independent alarm sound output;
- MUTE short-circuit triggered mute function, which can be controlled remotely or by other devices;
- 1-channel EMC alarm signal input to input alarm signals from other devices;
- Can be controlled by an infrared remote control;
- With power-off memory function, it will display the last content when powers on.

Front Panel



1.USB

Insert a USB flash drive here to provide programs to the built-in MP3, whose memory is 32G;

2.SD Card

3. MIC1 Volume Adjustment Knob

Adjust the volume of the MIC1, clockwise to volume up and counterclockwise to volume down;

4. LINE1 Volume Adjustment Knob

Adjust the volume of the LINE1, clockwise to volume up and counterclockwise to volume down;

5. MIC2/LINE2 Volume Adjustment Knob

Adjust the volume of the MIC2/LINE2, clockwise to volume up and counterclockwise to volume down;

6. MIC3/LINE3 Volume Adjustment Knob

Adjust the volume of the MIC3/LINE3, clockwise to volume up and counterclockwise to volume down;

7. Bass Volume Adjustment Knob

With the center position as the reference, clockwise to volume up and counterclockwise to volume down;

8. Treble Volume Adjustment Knob

With the center position as the reference, clockwise to volume up and counterclockwise to volume down;

9. Main Volume Adjustment Knob

Adjust the volume of all signals (except the emergency input signal on the rear panel), clockwise to volume up and counterclockwise to volume down;

10. 6-Zone Volume Adjustment Knob & Indicator

- Adjust the volume of 6 zones, clockwise to volume up and counterclockwise to volume down;
- When the zone is open, the corresponding indicator is blue;

11. Power Switch

Press down button“ON” to turn on the power, and “OFF” to turn it off;

12. Protection Indicator (DC temperature, overcurrent, or short circuit protection)

13. Level Indicator

Level display of audio output;

14 . Power Supply LED

15.FN Zone Switch

Short press to control zone 1-6 to be on or off, press it to turn on the zones, then use the button “1”, “2”, “3”, “4”, “5”, “6” on the panel to turn on or off the corresponding zone. If you press the FN button for more than 1s, all the zones will be opened, and if you press the FN button for more than 1s again, the zones will be restored to the state before they were all opened.

16. Mode

The modes that can be switched are USB mode, AUX line mode, Bluetooth play mode and FM radio mode;

17. LOOP Volume Adjustment Button

Adjustable volume of MIC4/LINE4, EMC, Chime, and SIREN, volume 0-32 (for detailed operation, please refer to No.8 of the "Operating Instructions" item below);

18. Display screen

19. Chime button

Press the button to trigger playback of either the built-in alarm source or a custom alarm source from the TF card.

20. Next song / (FM mode for next program)

- In USB and Bluetooth modes, press this button to the "next song";
- In FM mode, press this button to the "next program";
- In FM, AUX, USB, SD and Bluetooth modes, long press this button to turn down the volume of MP3 sources (including FM, SD, USB and Bluetooth)

21.Infrared Remote Control Receiving

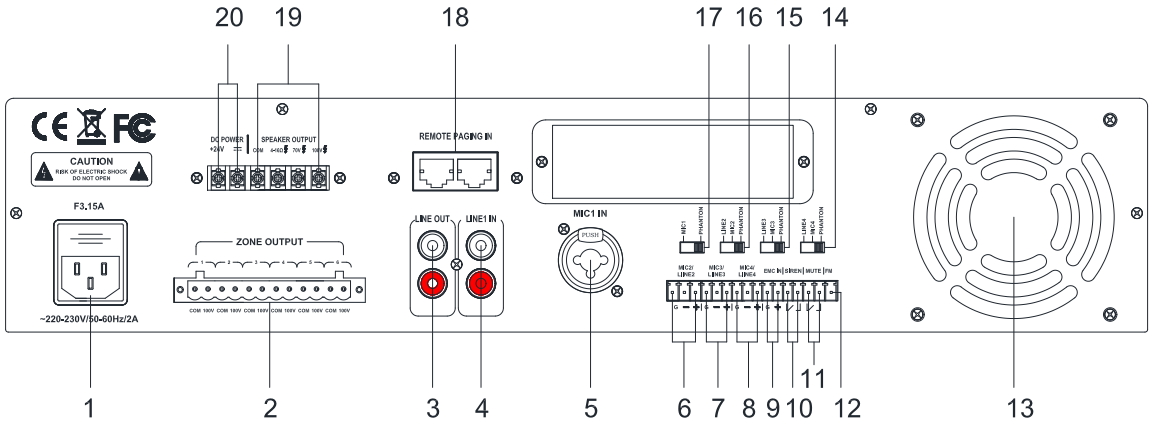
22. Previous Song / (FM mode for previous program)

- In USB and Bluetooth modes, press this button to the "Previous song";
- In FM mode, press this button to the "Previous program";
- In FM, AUX, USB, SD and Bluetooth modes, long press this button to turn up the volume of MP3 sources (including FM, SD, USB and Bluetooth)

23. Play/Pause

- In USB and Bluetooth modes, press this button to Pause;
- In FM mode, press this button to the search;

Rear Panel



Take the rear panel of DMA6250U as an example

1. Power Input Connector AC220-230V

Access the power plug to this connector. When connecting, please insert the plug of this device first, and then connect to the grid.

2. 6-zone Output

3. LINE Output

4. LINE1 Input

5. MIC1 Balanced Input

6. MIC2, LINE2 Input

7. MIC3, LINE3 Input

8. MIC4, LINE4 Input

9. EMC Trigger Input

10. SIREN Short-circuit Trigger

A short circuit continuously triggers playback of either the built-in alarm source or a custom alarm source from the TF card. When the short circuit is cleared, playback stops immediately.

11. Silent Short-circuit Trigger

12. FM Antenna

13. Fan Port

14. LINE4, MIC4 Phantom Voltage Switch

Toggling the switch to left and right (Note: When toggle this switch, you need to turn down the volume of the device or turn off the power of the device first)

15. LINE3/ MIC3 Phantom Voltage Switch

Toggling the switch to left and right (Note: When toggle this switch, you need to turn down the volume of the device or turn off the power of the device first)

16. LINE2/ MIC2 Phantom Voltage Switch

Toggling the switch to left and right (Note: When toggle this switch, you need to turn down the volume of the device or turn off the power of the device first)

17. MIC1 Phantom Voltage Switch

Toggling the switch to left and right (Note: When toggle this switch, you need to turn down the volume of the device or turn off the power of the device first)

18. DMA20 Remote Paging MIC Input

19. Fixed resistance and voltage output

Fixed resistance/voltage Speakers

20. DC+24V Power Input (emergency power input)

Operating Instructions

1. Initial Start-up

When starting up the stereo amplifier for the first time, do as follows:

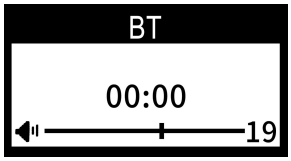
1) Turn down the total volume.
2) Turn down the zone volume.
3) Connect the stereo amplifier to the power supply; Turn on the amplifier till the power indicator is on.
4) Turn the total volume to the optimal level.
5) Adjust the zone volume until it reach the desired volume output. If you need to change the wiring or installation, make sure to disconnect the power cord from the device first.

2. Mic Broadcast

Conduct MIC broadcast in any mode, the system detects the microphone's voice and mutes other audio sources; When the microphone has no signal, it automatically backs to the original playback state.

3. Bluetooth Mode

Press the MODE button until the digital screen displays Bluetooth and Bluetooth name, as shown below, then please open the cellphone or other Bluetooth devices, find the device with Bluetooth name of "6 ZONES AMP BT" and enter the password 0000 for pairing. After that, music can be streamed from phone (when the device and cellphone Bluetooth pairing successful, the digital display will stop flashing), wireless transmission distance is about 10m.

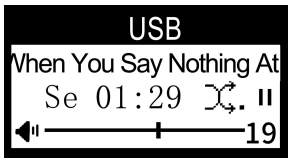


4. USB Mode

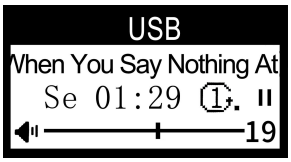
When insert a USB, it will automatically come to USB mode (plug and play). As shown below, the interface displays the current playing song name, playing duration, playing mode, playing status and volume level. In USB mode, short press LOOP button to switch the playback mode to random play, single loop, directory loop.



Random Play



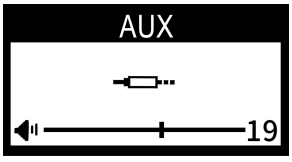
Directory Loop



Single Loop

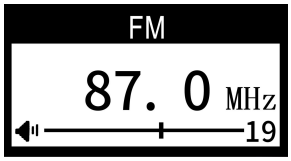
5. Line Mode

Press the MODE button until the digital screen displays AUX to enter Line Mode, as shown below.



6. FM Mode

For button description, please refer to the instructions in "Front Panel" above, sections 20, 22 and 23. Press MODE button until the digital screen displays FM to enter FM mode, as shown below; Then it will start to play radio programs.



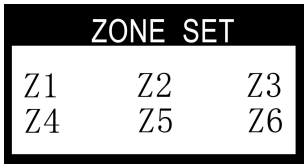
1) Searching radio stations: Before playing, search radio stations first, the FM band radio frequency range is 87.00MHz - 108.00MHz.

   Methods of searching for Radio Stations: Short press button ⏯ on the panel or remote control to search automatically from low to high frequency bands. The searched stations will be stored in number starting with 1, so that the stations can be recalled directly later.

2) Calling radio stations: search and store good radio channels with automatic search method, and you can call and play them directly. Press button"⏭ / ⏮"on the panel to choose radio stations you want to play, or press number "0-9" to play.

7. 6-zone Control Switch

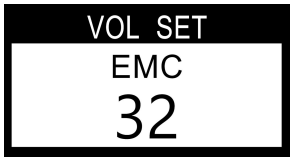
Short Press the button FN to enter the zone setting interface, and the "1", "2", "3", "4", "5" and "6" buttons on the panel can be used to turn on or off the corresponding zones as shown in the figure below. Press and hold the FN button for more than 1s to open all zones. At the same time, the indicator lights at the 6 zone volume adjustment knobs on the device panel display bright blue, and then press again to back to the state it was in before.



8. Adjust Volume of Audio Source

- Volume of 6 zones/MIC1/MIC2/MIC3/LINE1/LINE2/LINE3 can be adjusted directly through the corresponding volume knob on the panel.
- Volume of MIC4/LINE4, EMC, Chime, SIREN: long press the LOOP volume adjustment button to enter the volume setting interface, then short press the LOOP button again and select MIC4/LINE4, EMC, Chime, SIREN alarm setting interfaces, press button "V+/ V-" to adjust the volume of the corresponding audio source through the panel(0-32).

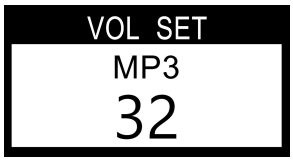








- MP3 audio source(FM/AUX/USB/SD/Bluetooth) volume: in the FM/AUX/USB/SD/Bluetooth mode, long press "⏮" or " ⏭" previous or next song button to enter the MP3 volume settings interface, continue to long press the "⏮" or "⏭" previous or next song button to adjust the MP3 audio source volume level (0-32).



9. Phantom Power

Switch on the phantom power switch to provide phantom power (+ 48V) to all green terminal microphone inputs. It is not recommended to switch on for normal use but only used for MIC1, MIC2/LINE2, MIC3/LINE2, MIC4/LINE2.

10. Chime and Siren Settings

Note: The chime and siren sounds can be customized by inserting an SD card. Create a folder named "MSG" on the SD card.

For custom chimes, name the audio file as "MSG1-xxxx"

For custom sirens, name the audio file as "MSG3-xxxx"

Replace "xxxx" with any desired characters. Place the "MSG1-xxxx" and/or "MSG3-xxxx" files inside the "MSG" folder.

Note: Only the first recognized file in the folder will be played, even if multiple custom files are present. Do not remove the SD card while a custom chime or siren is playing.

Remote Controller

As shown in the following figure, remote controller keys are introduced in details.

1 Standby Switch

2 Mode Selection: Click it to display modes in turn: FM, USB, AUX and BT.

3 MUTE button.

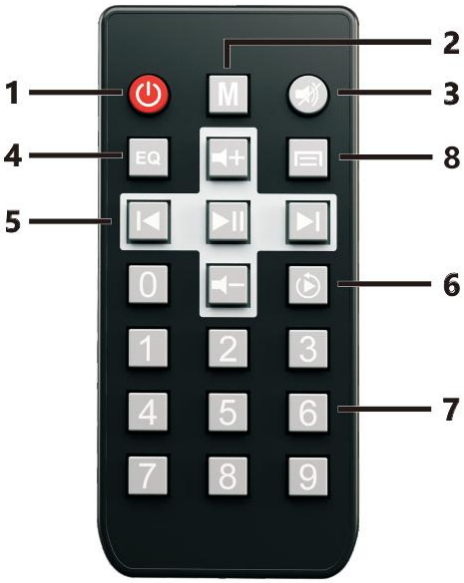
4 EQ Mode, with 4 optional sound effects.

5 Play Control Area. Play/Pause, Previous/Next, and Volume Control.

6 Loop Mode. Click it to display modes in turn: Single Loop, Random Play and Directory Loop.

7 Number Area. In FM mode, press the number directly to enter the FM frequency that has been stored.

8 Alternative Button



Technical Parameters

Model		DMA6250U	DMA6350U	DMA6500U	DMA6650U
Power		AC220-230V 50/ 60Hz			
Input Sensitivity	**MIC1**	5mV ±1mv (Balanced XLR Input)			
	MIC2/MIC3/MIC4	5mV ±1mv (Unbalanced Phoenix Jacks)			
	AUX1	350mV±50mv (Unbalanced RCA Input)			
	AUX2	350mV ±50mv (Unbalanced Phoenix Jacks)			
	EMC	350mV ±50mv (Unbalanced Phoenix Jacks)			
MIC Frequency Response		120Hz～ 12kHz (±3dB)			
AUX Frequency Response		80Hz～ 15kHz (±3dB)			
THD		<1%			
Treble Adjustment Range		10dB（±2）			
BASS Adjustment Range		10dB（±2）			
Phantom Power		+48V			
Rated Output Power		250W	350W	500W	650W
Output Voltage of Port		4-16Ω,70V,100V(fixed voltage output)			
Current		2A	3A		4A
Protection		F3.15AL	F6.3AL		F8AL
Machine Dimension(D×W×H)		430×390×88mm			
Package Dimension:		545×500×165mm			
Net Weight		8.6KG	9KG	10.1KG	11KG
Gross Weight		9.8KG	10.2KG	11.3KG	12.2KG

Packing List

No.	Checklist	QTY
1	Mini Mixer Amplifier	1
2	Remote Controller	1
3	Manual	1
4	Charters Washer	4
5	Handle	2
6	16P Green Plug/3.81mm pitch	1
7	12P Green Plug/5.08mm pitch	1
8	Power Cable	1
9	Countersunk Head Cross Screw	6
10	Half Countersunk Head Cross Screw	4
11	FM Transparent Antenna	1

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