



**P.A. Series**

**Mixing Amplifier**  
**MP210UB/MP310UB/MP610UB/MP1010UB**



# OWNER'S MANUAL

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

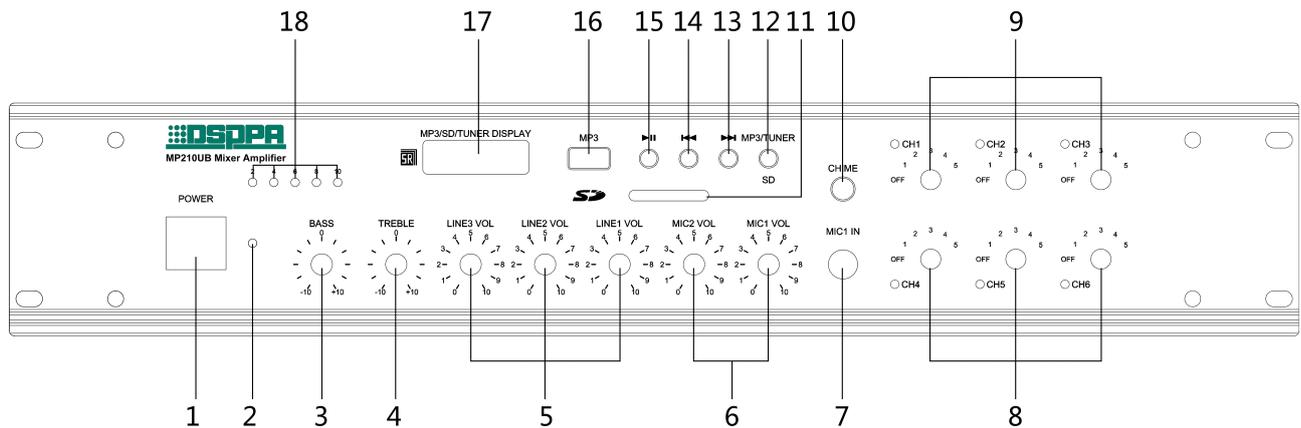
## TABLE OF CONTENTS

<i>FEATURES</i> .....	- 1 -
<i>FRONT PANEL</i> .....	- 2 -
<i>REAR PANEL</i> .....	- 3 -
<i>CONNECTIONS</i> (without multi-zone outputs).....	- 4 -
<i>CONNECTIONS</i> (with multi-zone outputs).....	- 4 -
<i>Instructions to Infrared Remote Controller</i> .....	- 5 -
<i>Operating Instructions</i> .....	- 6 -
<i>PRECAUTION OF INSTALLATION</i> .....	- 8 -

## ***FEATURES***

- The integral broadcasting power amplifier integrating MP3 player, FM tuner, partitioner (6 partitions), preamplifier and power amplifier.
- MP3/TUNER is subject to remote control, and it is possible to control the conversion between MP3/TUNER, selection of program, adjustment of volume, option repeat mode, and selection of EQ mode and so on by means of infrared remote control; and selection USB/SD.
- LED digital tube displaying volume, playing status, program number and so on.
- 2MIC inputs, 3AUX inputs, and 1AUX output.
- 4-16Ω rated output.
- 6-zone output.
- Individual volume control and output level indication for each zone output.
- Mute function for priority input.
- Treble and Bass control
- Chime with priority output
- 5-unit LED Meter for monitoring volume output in each zone.
- Output short circuit protection and caution.

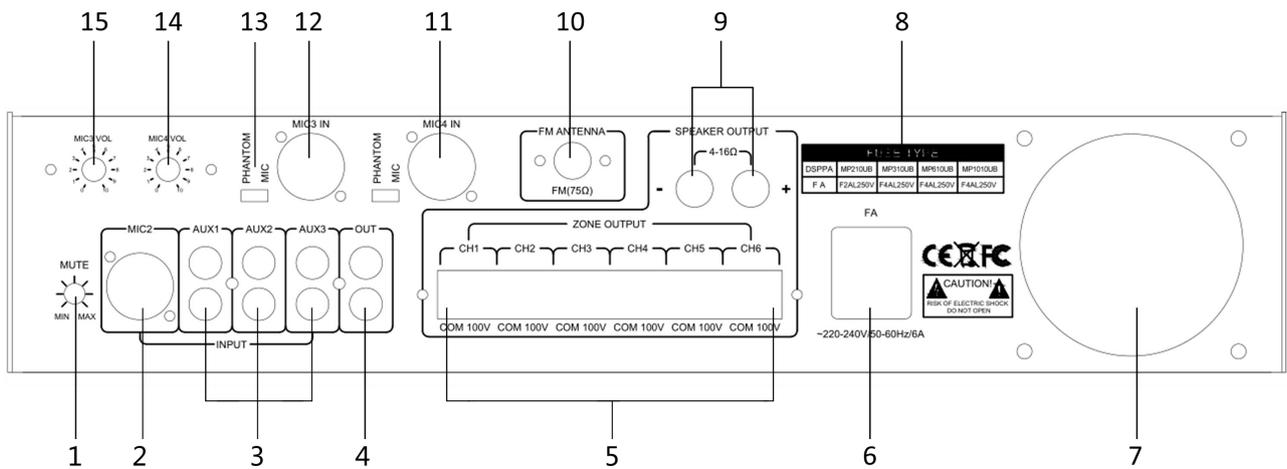
## FRONT PANEL



1. Power Switch
2. LED Power Indicator
3. Bass Adjustment Button
4. Treble Adjustment Button
5. Line Input Volume Adjustment Button
6. MIC Input Volume Adjustment Button
7. MIC 1 Priority Input Jack
8. Zone Volume Adjustment Button (1-6)
9. Zone Level Indicator
10. Chime Button
11. MP3 SD Jack
12. MP3/tuner select key
13. MP3/tuner status operation key
14. MP3/tuner status operation key
15. MP3/tuner status operation key
16. MP3 USB Jack
17. MP3/tuner status display
18. Five-unit LED Level Meter

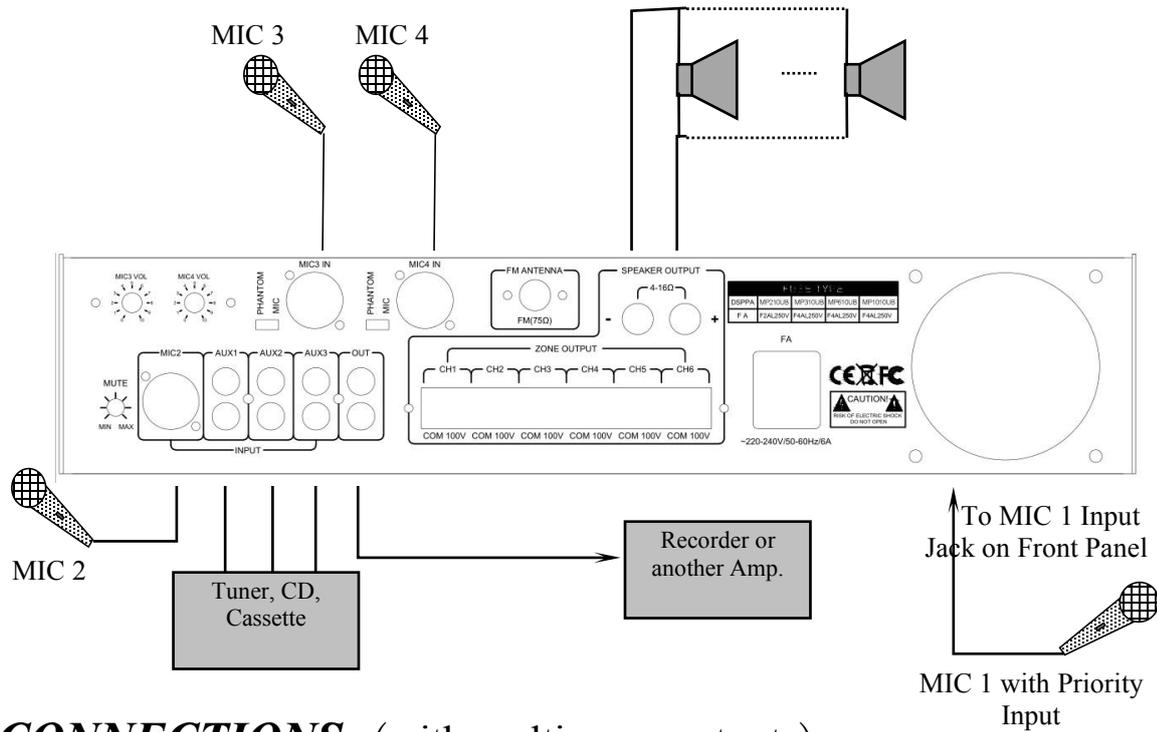
### Note:

**When all five units of the LED level meter remain lit, it indicates that the sound is distorted. In such case, adjusting each volume adjustment button until LED unit 4 (+8dB) and LED unit 5 (+10dB) flash.**

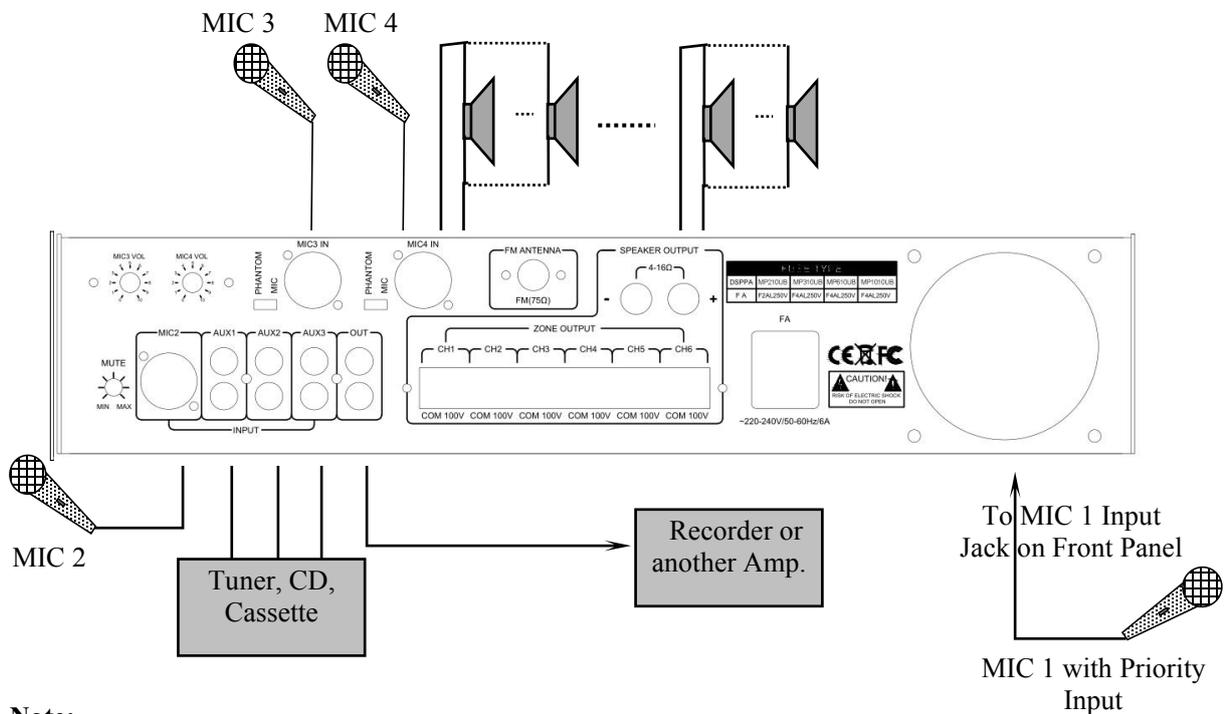
**REAR PANEL**

1. Mute control Button
2. MIC 2 Input Jack
3. AUX Input Jack 1, 2, 3
4. AUX Output Jack  
(Link with another amplifier or recording equipment)
5. 6-zone Output
6. AC Power Source Insert
7. Fan Exhaust Window
8. AC Power Fuse
9. Speaker Output Terminal
10. FM antenna Jack
11. MIC4 Input Jack
12. MIC3 Input Jack
13. Microphone and phantom power supply switching key
14. MIC4 Input Volume Button
15. MIC3 Input Volume Button

## CONNECTIONS (without multi-zone outputs)



## CONNECTIONS (with multi-zone outputs)

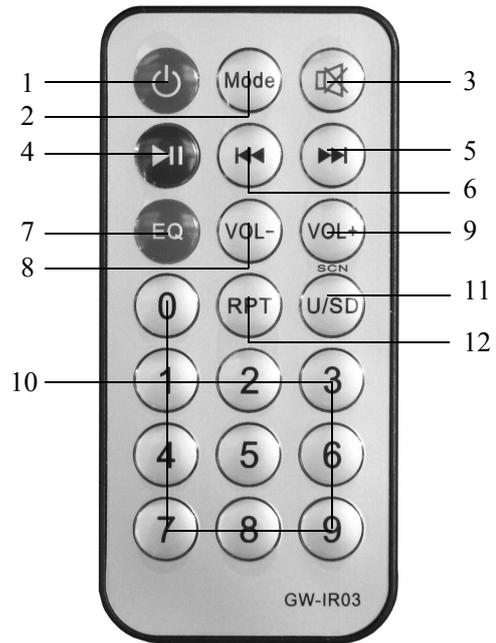


**Note:**

Individual zone opening and closing may be achieved by adjusting **Zone Volume Adjustment Button** on **Front Panel**.

## ***Instructions to Infrared Remote Controller***

1. MP3/TUNER switch button.
2. Mode: MP3 and tuner conversion button.
3. Mute: MP3/TUNER mute button. Press this button once, and the content displayed in LED will flash after the played program is muted; and then press this button to cancel the mute.
4. MP3 play/pause operation button, tuner memory channel call button: press this button repeatedly to select the memorized channel progressively in order.
5. MP3 backward song selection button, radio backward channel selection button.
6. MP3 forward song selection button, radio forward channel selection button.
7. EQ: Under MP3 output mode, with the Class mode, Jazz mode, Rock mode, Bass mode and Pop mode. This button is also used for calling memorized channel by tuner.
8. VOL-: MP3/TUNER volume decrease button.
9. VOL+: MP3/TUNER volume increase button.
10. 0-9 numerical keys: They are used to input the serial number of MP3 chapter and memorizing number of tuner channel.
11. U/SD: It is used by tuner to search the memorized channel automatically.
12. RPT: Selection of MP3 repeat mode including repeat one and repeat all.



## ***Operating Instructions***

According to the connecting diagram above, connect the circuit of the system properly, plug in the power supply in case of no mistake in check, and then turn on the power switch on the front panel. After such startup, this equipment will play the program which is played upon the previous shutdown in the default state. For example, the radio program is being played upon the previous shutdown, the radio program will be played automatically upon this startup. In order to play the MP3 program, please press “MP3/TUNE” button or the “Mode” button on the infrared remote controller (please refer to the instructions to the infrared remote controller) for conversion.

### **1. To play MP3 program**

1) Begin to play: Convert to the status of MP3 play by the above means (no such operation if it is playing MP3 program), insert the U disk storing MP3 programs into the USB interface, and the machine will play automatically. Use the button 12 and 13 on the panel of machine (refer to the instructions to the front panel) or the infrared remote controller (refer to the instructions to the infrared remote controller) to select the chapter to be played, and make use the button 4 to pause the play.

2) Selection of repeat mode: MP3 may use the infrared remote controller to select the repeat mode of the program with the options of repeat one and repeat all. Press the button “RPT” once, and LED will display “ONE” indicating the repeated playing of the current played chapter; press button “RPT” again, and LED will display “ALL” indicating the repeated playing of all the chapters on the U disk.

3) Selection of EQ mode: MP3 in this machine has five (5) EQ modes, including Class mode, Jazz mode, Rock mode, Bass mode and Pop mode. It is allowed to select by use of the button “EQ” on the infrared remote controller. When pressing the button “EQ”, the digital tube will display “Eq0” through “Eq4”. When pressing continuously, five modes such as “Eq0\Eq1\Eq2\Eq3\Eq4” will appear in order, from which the user can select as required.

4) USB/SD: The MP3 player of this device can play the program from the USB port, and also from the SD interface, and select the last inserted memory to play program in it. For example, if it is playing the program from the USB port now, and a SD card is inserted into the device, it will play the MP3 program automatically from the SD card.

### **2. To play radio channel program of tuner**

Convert to the “TUNE” play mode by the above means, and then begin to play the radio program.

1) Search channel: Before playing, the user shall first search the radio channel. For this machine, there are two operating methods for searching channel.

a. Search the radio channel with the MP3 song selection buttons on the infrared remote controller. Press the song selection button once, the radio frequency will increase or decrease by 0.1MHz. Press the button continuously to enable the frequency to increase or decrease to certain channel. By such method, the searched channel will not be memorized in the channel memorizing number. However, the machine itself has the memory

function, so the channel played upon the shutdown will be played automatically upon the next startup. radio

b. By use of the button “▶||” on the machine panel or the button “U/SD” on the infrared remote controller, it is allowed to search from low-frequency stage to high-frequency stage automatically. The searched channels will be memorized in turn in the memorizing numbers starting from 1 so as to facilitate the direct calling of the channel.

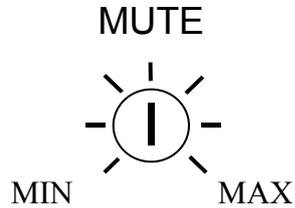
2) Calling channel: It is allowed to directly call and play the channels searched and memorized by automatic search. The buttons “◀◀ or ▶▶” on the panel are used to select forward and backward the memorizing number to call the channel for play or the buttons “▶|| or EQ” on the infrared remote controller or the digital keys from “0-9” to select the memorizing number to call the channel for play.

**Prompt:**

**In the event that this machine is not inserted with U disk prior to startup, the radio program will be played automatically upon startup. At this moment, the U disk is inserted to convert to the MP3 play status automatically.**

## ***MUTE FUNCTION***

**MIC 1 Input Jack** and **Chime Button** have the highest level of priority. Input signals from them can override other input signals. The grade of this **MUTE** function can be adjusted.



## ***PRECAUTION OF INSTALLATION***

1. Do not block ventilation holes.
2. The amplifier should not be placed in any of the areas:
  - 1) with poor ventilation;
  - 2) exposed to direct sunlight;
  - 3) with high ambient temperature or adjacent to heat-generating equipment;
  - 4) with high humidity or heavy dust;
  - 5) susceptible to vibration.
3. Make sure the power outlet conforms to the plug of the unit.
4. Do not use this unit if the electrical power cord is frayed or broken.
5. Always operate the unit with the ground wire
6. If a short alarm rings after turning on power and inputting signals, there must be an output short circuit fault. In such case, power should be cut off immediately. Do not turn on the power until the fault is removed.

## ***SPECIFICATIONS***

Specifications are subject to change without notice

Model	MP-210UB	MP-310UB	MP-610UB	MP-1010UB
Rated Output	60W	120W	250W	350W
Output Regulation	Less than 3dB, from off-load to full load			
Input sensitivity	Microphone : $\leq 3\text{mV}$ (unbalanced)			
	Line: $\leq 300\text{mV}$ (unbalanced)			
Frequency Response	80Hz-16kHz ( $\pm 3\text{dB}$ )			
Distortion	Less than 1% (at 1kHz, 1/3 rated output voltage)			
Ratio of Signal to Noise	MIC: more than 71dB			
	LINE: more than 85dB			
Tone	Bass: $\pm 10\text{dB}$ (at 100Hz)			
	Treble: $\pm 10\text{dB}$ (at 10kHz)			
Protection	DC voltage; overload; short-circuit.			
Mute	Input signals from MIC 1 override other input signals			
Power Requirements	AC 220-240V/50-60Hz			
Power Consumption	120W	250W	500W	650W
Outer Packing Size(mm)	(L×W×H)520×430×195			
Unit Size (mm)	(L×W×H)418×338×88			
Gross Weight	11.7kg	13.5kg	16kg	17kg
Net Weight	9.7kg	11.5kg	14kg	15kg

**CAUTION**

- When the “Power switcher” is off, please pull out the power cord from the socket.  
Please keep the equipment out of water.
- To reduce the risk of electric shock, do not remove the cover.
- Please contact us or authorized dealers for servicing.
- The symbol ⚡ on rear panel indicates hazardous live. The connection of these terminals must be operated by the instructed person.
- The unit connect to the mains by the plug. Pull out the plug when the unit is in fault or danger status.  
So the socket for the unit plugging must be set in the place can be easy to plug into and pull out the plug.