



## Professional Public Address System

**EMMA-912A**

**EMMA-925A**

**MP3/Tuner/Integrated PA Power Amplifier**



## Operation Instructions

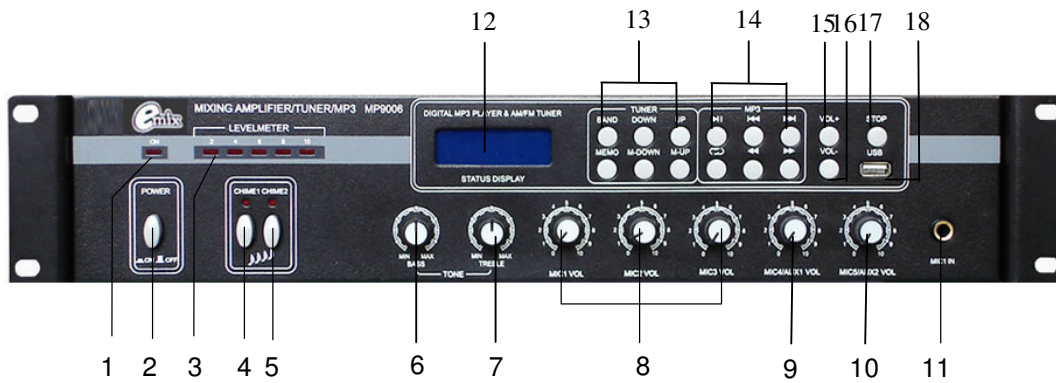
Please read this manual carefully before use.

### Performance features

- 5-channel microphone input ports, 2-channel auxiliary line input ports, 1-channel EMC input port, 1-channel line output port.
- Convenient MP3 and tuner functions, with station tuning and power failure saving function.
- Chime output function.
- Two stages priority mute function.
- Tuner/MP3 status liquid crystal display (LCD), Chinese subtitle, 5 segment LED level meters.
- Each channel with independent volume control, treble and bass adjustments.
- 100V, 70V constant voltage output and 4Ω fixed resistance (balanced, non-grounding) output.
- AC 220V working voltage.
- Output short-circuit protection and with warning alarm.
- Single board complete PA system.

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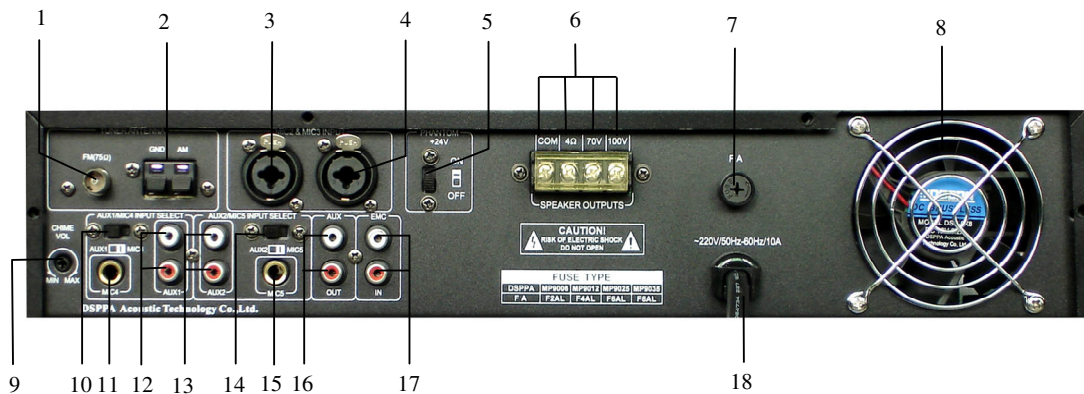
## Front panel



- |                    |  |                                      |
|--------------------|--|--------------------------------------|
| 1. Power indicator | 7. Treble adjust                         | 13. Tuner status operation button    |
| 2. Mains switch    | 8. Microphone volume adjust              | 14. MP3 play status operation button |
| 3. LED level meter | 9. Line 1/Microphone 4 volume adjust     | 15. Tuner/MP3 volume increase button |
| 4. Chime 1 button  | 10. Line 2/Microphone 5 volume adjust    | 16. Tuner/MP3 volume decrease button |
| 5. Chime 2 button  | 11. No. 1 (priority) microphone jack     | 17. Tuner/MP3 status stop button     |
| 6. Bass adjust     | 12. Tuner/MP3 play status display screen | 18. USB port                         |

Remarks: Overload distortion occurs when 5 LEDs are light up, and it is necessary to adjust the related volume control knob to make the 4-5th indicators flash.

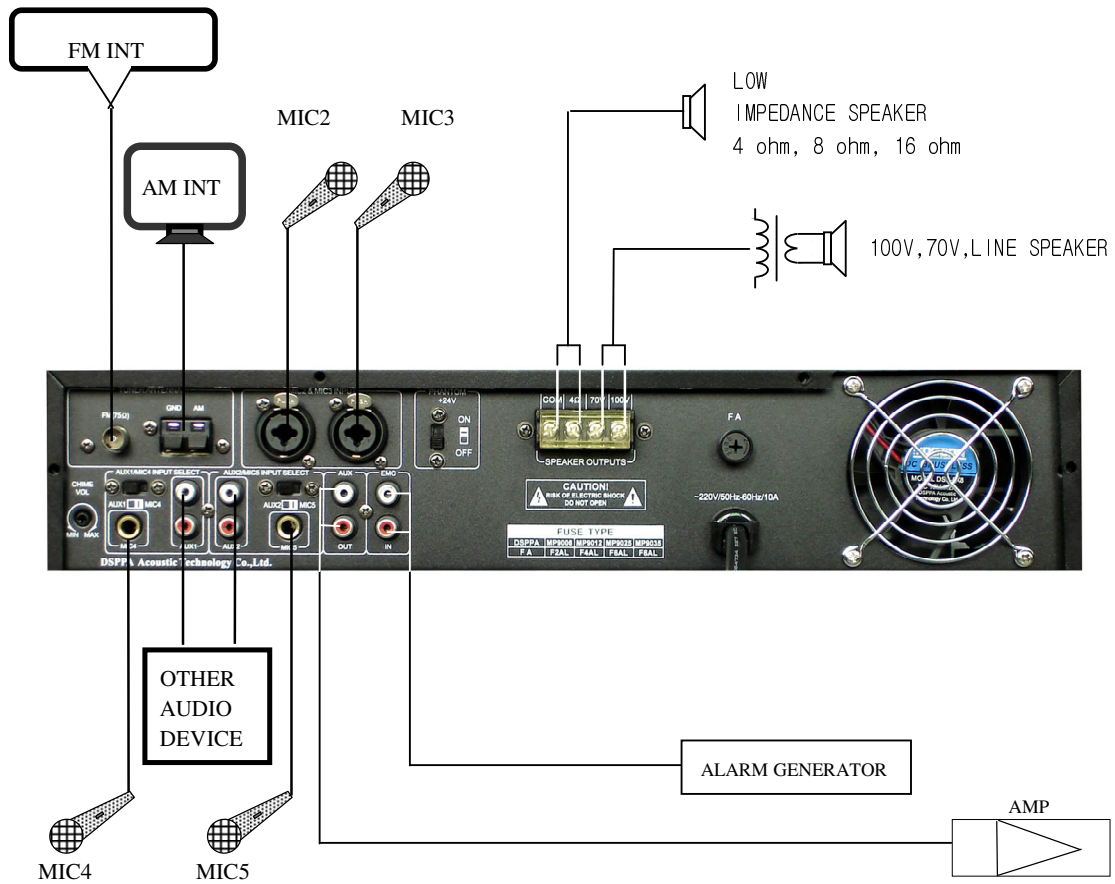
## Back panel



- |                          |  |   |
|--------------------------|--|---|
| 1. FM antenna jack       | 7. AC 220V fuse                                  | 13. Auxiliary input (AUX) 2 jack                  |
| 2. AM antenna jack       | 8. Heat radiation blower window                  | 14. Auxiliary line 2/ Microphone 5 convert switch |
| 3. No. 2 microphone jack | 9. Chime volume adjust knob                      | 15. Microphone 5 jack                             |
| 4. No. 3 microphone jack | 10. Auxiliary line 1/Microphone 4 convert switch | 16. Line output port                              |
| 5. Phantom power switch  | 11. Microphone 4 jack                            | 17. EMC signal input jack                         |
| 6. 4 output terminals    | 12. Auxiliary input (AUX) 1 jack                 | 18. AC220V power cord                             |

Remarks: Among the four output terminals, you can only use 1 pair at a time.

# System connection



## Operation instructions

### I Operating instructions of equipment function

1. Volume adjusting: To meet customer's different demands on the music tone, this equipment is provided with 7 adjusting knobs relative to sound in total. Among them, "BASS" is the bass tone adjusting knob, "TREBLE" is the treble tone adjusting knob, "MIC1, MIC2, MIC3" knobs are used to adjust the volume of Microphone 1, Microphone 2, and Microphone 3. The adjustment of the corresponding volume for "MIC4/AUX1 VOL" and "MIC5/AUX2 VOL" is controlled through the "AUX1/MIC4" and "AUX2/MIC5" selecting switches at the back panel. When "AUX/MIC" selection switch selects line (AUX), "MIC4/AUX1 VOL" and "MIC5/AUX2 VOL" knobs adjust the volume of the line (AUX); When "AUX/MIC" selection switch selects MIC, "MIC4/AUX1 VOL" and "MIC5/AUX2 VOL" knobs adjust the volume of MIC.
2. Microphone application: The microphone inputs are provided with the phantom power supply, when the condenser microphone is used, please turn on the phantom mains switch on the back panel, and when the dynamic microphone is used, please turn off the phantom mains switch. This machine is provided with 5-channel microphone inputs and 2-channel auxiliary line inputs. Among them, the microphone input jacks for MIC1, MIC4 and MIC5 are 6.3mm; The MIC2, MIC3 are XLR type socket jacks.

The volumes for Microphone 1, Microphone 2 and Microphone 3 are adjusted through "MIC1 VOL", "MIC2 VOL" and "MIC3 VOL" on the front panel. Microphone 4 and Microphone 5 jacks are compatible with the Auxiliary line 1 and the Auxiliary line 2 jacks, and "AUX1/MIC4" and "AUX2/MIC5" converting switches at the back panel are used to change over freely the input method. AUX switch selects the line signal; MIC switch selects the signal from microphone.

4. Priority function: Microphone 1 has the highest priority, and its signal overlays all the input signals from other ports. The chime and the EMC port has the second highest priority, and its signal overlays all the other signals except Microphone 1.
5. Chime: This equipment is provided with Chime 1 and Chime 2 signals, and the chime volume can be adjusted by the chime adjusting knob on the back panel. Pressing Chime 1 button is to start the chime signal, and the output terminal will send out '1-3-5-i' chime note, in the meantime, the signal indicator of Chime 1 button is light up; Similarly, pressing Chime 2 button also starts the chime signal, and the output terminal will send out 'i-5-3-1' chime note, and in the meantime, the signal indicator of Chime 2 button is light up, until pressing this button again to cancel the chime signal, and the indicator will be turned off automatically.

### II Setup operation of the play status

The set is equipped with two source players, the tuner and the MP3 player. It is easy to interchange between these two kind of players conveniently: When the equipment on tuner mode, and when pressing any button under MP3 operation mode, the equipment will be changed to MP3 playing status automatically, and the screen will display "CONVERT TO MP3". In this case, the MP3 will enter play mode if USB port is connected with UBS memory; When the equipment is placed under MP3 play mode, the equipment will changed to the tuner play mode automatically when any button for the tuner is pressed and the screen will display "CONVERT TO RADIO".

After converting to a certain play mode, the setup operation is as follows:

1. The setup operation of tuner at play mode:
  - 1) Press BAND button to change between 'AM' and 'FM' bands.
  - 2) Press (lightly) the UP/DOWN button each time to raise the station frequency one step (one step for FM being 50 kHz, one step for AM being 9 kHz). If you press the UP/DOWN button over 3 seconds, it will enter the auto search mode, and it will search the station frequency continuously until it stop automatically. The station searched will be saved automatically one by one in the sequence of (1-20). During searching if the UP/DOWN
















button is pressed the equipment will stop searching.

- 3) MEMO button is to store the station frequency received. FM band contains 1-20 memory **location**, and AM band also has 1-20 memory **location**. Press MEMO button, the digit displayed on the screen is the last operation number, namely the last saving sequence number and tuner frequency number.
- 4) M-DOWN and M-UP buttons are used to save the station saving number upward or downward. M-DOWN button is for downward adjusting, and M-UP button is for upward adjusting. For example, if you want to save frequency 107.65 to the 18th memory **location**, but when you press the MEMO button, the screen displayed is the 19th saving number, then, you press M-DOWN button and press again MEMO button at this time to save the band of frequency 107.65 to the 18th saving number.

## 2. The setup operation of MP3 play mode:

The USB port of the machine can accept a memory such as common disc, MP3 player and movable hard disc and card reader machine, etc. When these equipment are inserted to the USB port of the machine, it can search automatically and play the MP3 music file from them. Firstly, the display screen will display ‘\*\*\*WELCOME\*\*\*’ in the first line and ‘EMIX’ in the second line, then the equipment will play automatically according to the file saving sequence, and the display screen will display the corresponding play information; If there is no suitable file in the memory, the display screen will display ‘No Disk’

If the MP3 tracks played are over 99, A blue dot ‘●’ will be lit on the display screen.

- Play/pause: Plug into the USB memory, the equipment under the default status will play the MP3 files in the memory automatically. Press  button during play will pause the play, and press that button once more, it will continue playing the track from where it paused.
- Selective play: Press  or  button to select any track for play forward or backward; Press  or  button to select any time section of any track forward or backward. Press  button to fast rewind to 00:00 time section and it will return to the last track; Press  button to fast forward to the end time of the track and it will enter the next track.
- Repeat play: The default play sequence of equipment is to play the whole disc in repeat play. When you press  button for the first time, it will start the repeat function of the single track and current track  Press  button again, it will start **repeatedly** playing the current track  Press the  button for the third time, it will start the repeat function of the current folder  play; Press  button for the fourth time, it will repeatedly play the current folder; Press  button for the fifth time, it will repeatedly play the whole disc.
- Stop play: Press **STOP** button to stop the play in any playing process.

## **Installation Precautions**

- 1 Never block the ventilation vent.
- 2 It is required to stop using immediately if the power cord is worn out.
- 3 The power amplifier should not be put in the following places:
  - 1) Poor Ventilation;
  - 2) Dusty and damp location;
  - 3) Under direct sunlight;
  - 4) High environmental temperature or near heat source;
  - 5) Subjected to vibration.
- 4 The housing should be safely grounded.
- 5 The power supply plug and socket should be compatible.
- 6 After connecting the power supply and input signal, if you hear a short alarm tone, it means that a short-circuit exists in the output line. It is required to cut off the power supply immediately, and the power can only be applied after eliminating the failure.

## Performance specifications

Model No.	EMMA-912A	EMMA-925A
Rated output	120W	250W
Output adjust rate	From full load to no load, less than 3 dB.	
Output mode	4Ω fixed resistance output, 70V, 100V constant voltage output	
AUX output	600Ω 0. 8V	
Input	Mic 1, 2, 3, 4, 5 with phantom power supply (optional): 600Ω, 2.5 mV	
	AUX 1, 2: 10 kΩ , 250 mV unbalance; EMC IN: The 10kΩ, 250 mV	
Frequency response	Line: 80Hz~16kHz (± 3dB); MIC: 100Hz~10kHz (± 3dB)	
Harmonic distortion	Less than 0.5% at 1kHz, 1/3 rated power	
Signal/noise ratio	Mic 1, Mic2, Mic3 and Mic4, Mic5: 70dB	
	AUX 1 and AUX2: 75dB	
Tone adjust	Bass: ± 12dB at 100Hz	
	Treble: ± 12dB at 10kHz	
Protection	AC fuse × 1, overload, short-circuit	
Mute function	Mic 1 input overlays other inputs (attenuation 0~-30dB)	
	CHIME, EMC cover others (except Mic1) inputs (attenuation 0~-30dB)	
Built-in music source	Tuner, MP3	
Mains source	AC 220~240V / 50 ~ 60Hz	
Power consumed	200W	350W
Dimensions	430×368×88 mm	
Gross weight	23.5kg	25.5kg
Net weight	22kg	24kg

No prior notice will be given if there is any alteration in the specifications.

### Remarks

- The machine is not disconnected completely with the mains power in power net when the power switch of the machine is at “off” status, for safety, please pull out the power plug from the socket.
- The equipment should not suffer from the drop of water or water splash and it is not allowed to place object such as vase filled with water on the equipment.
- Please do not open at will the machine cover plate to prevent electric shock. Certified professional personnel are required to undertake the repair when it is needed.