

LYINTL

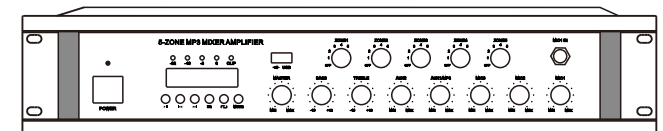
User Manual



CAUTION: Do not open the equipment cover arbitrarily, so as not to electric shock. Please contact the professionals to maintain if necessary.



LY International Electronics Co., Ltd.
 Addr: Room 1206, Aoyuan Business Building, No. 26 Jinlong Road
 Nansha District, Guangzhou China. 511458
 Tel: +86-20-39390663
 Fax: +86-20-39390669
 Email: sales@lyintl.com
 Http://www.lyintl.com



5-ZONE MP3 MIXER AMPLIFIER
PM-8070Z/PM-8130Z/PM-8260Z/PM-8360Z/PM-8500Z

Notes:

Thank you for purchasing the **5-Zone Mp3 Mixer Amplifier**.
Please carefully follow the instructions in this manual to ensure long,
trouble-free use of the equipment.

Accessories

AC power cord	1
User manual	1
Remote control	1
FM tuner antenna	1
Audio cable	1

Safety Precautions

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

! CAUTION

Indicates a potentially hazardous situation which, if mishandled, could result in moderate or minor personal injury, and/or property damage.

- Before installation or use, be sure to carefully read all the instructions in this section for correct and safe operation.
- Be sure to follow all the precautionary instructions in this section, which contain important warnings and/or cautions regarding safety.
- After reading, keep this manual handy for future reference.

LIMITED WARRANTY

We warrant that the hardware products it manufactures will be free from defects in materials and workmanship.

The warranty term, beginning on the date of invoice, is one year for Parts replacement, two years for parts repair and six months on accessories.

This warranty does not cover damage or failure caused by alterations, mishandling, abuse, misuse, neglect, accident or resulting from any cause other than a product defect.

In case of defects in material and workmanship under normal use and conditions, we will replace or repair products covered under this limited warranty that are returned to our facility.

To request warranty service, you must contact our international sales team within the warranty period, ship the products back to us in their original or equivalent packaging (freight prepaid). If we repair or replace a product, its warranty term is not extended.

DISCLAIMER

Information contained in this manual is subject to change without prior notice and does not represent a commitment on the part of the vendor. We shall not be liable for any loss or damages whatsoever arising from the use of information or any error contained in this manual.

It is recommended that all services and repairs on this product be carried out by us or its authorized dealer.

This product must only be used for the purpose it was intended by the manufacturer and in conjunction with this operating manual.

We cannot accept any liability whatsoever for any loss or damages caused by service, maintenance or repair by unauthorized personnel, or by use other than that intended by the manufacturer.

※ Do not cut, kink, otherwise damage nor modify the power supply cord. In addition, avoid using the power cord in close proximity to heaters, and never place heavy objects -- including the unit itself -- on the power cord, as doing so may result in fire or electric shock.

※ Be sure to replace the unit's terminal cover after connection completion. Because high voltage is applied to the speaker terminals, never touch these terminals to avoid electric shock.

※ Be sure to ground to the safety ground (earth) terminal to avoid electric shock. Never ground to a gas pipe as a catastrophic disaster may result.

※ Avoid installing or mounting the unit in unstable locations, such as on a rickety table or a slanted surface. Doing so may result in the unit falling down, causing personal injury and/or property damage.

When the Unit is in Use

※ Should the following irregularity be found during use, immediately switch off the power, disconnect the power supply plug from the AC outlet and contact your nearest dealer. Make no further attempt to operate the unit in this condition as this may cause fire or electric shock.

- If you detect smoke or a strange smell coming from the unit.
- If water or any metallic object gets into the unit.
- If the unit falls, or the unit case breaks.
- If the power supply cord is damaged (exposure of the core, disconnection, etc.)
- If it is malfunctioning (no tone sounds.)

※ To prevent a fire or electric shock, never open nor remove the unit case as there are high voltage components inside the unit. Refer all servicing to your nearest dealer.

※ Do not place cups, bowls, or other containers of liquid or metallic objects on top of the unit. If they accidentally spill into the unit, this may cause a fire or electric shock.

※ Do not insert nor drop metallic objects or flammable materials in the ventilation slots of the unit's cover, as this may result in fire or electric shock.

CAUTION**When Installing the Unit**

※ Never plug in nor remove the power supply plug with wet hands, as doing so may cause electric shock.

※ When unplugging the power supply cord, be sure to grasp the power supply plug; never pull on the cord itself. Operating the unit with a damaged power supply cord may cause a fire or electric shock.

※ When moving the unit, be sure to remove its power supply cord from the wall outlet. Moving the unit with the power cord connected to the outlet may cause damage to the power cord, resulting in fire or electric shock. When removing the power cord, be sure to hold its plug to pull.

※ Do not block the ventilation slots in the unit's cover.

Doing so may cause heat to build up inside the unit and result in fire.

※ Avoid installing the unit in humid or dusty locations, in locations exposed to the direct sunlight, near the heaters, or in locations generating sooty smoke or steam as doing otherwise may result in fire or electric shock.

When the Unit is in Use

※ Do not place heavy objects on the unit as this may cause it to fall or break which may result in personal injury and/or property damage. In addition, the object itself may fall off and cause injury and/or damage.

※ Make sure that the volume control is set to minimum position before power is switched on. Loud noise produced at high volume when power is switched on can impair hearing.

※ Do not operate the unit for an extended period of time with the sound distorting. This is an indication of a malfunction, which in turn can cause heat to generate and result in a fire.

※ Contact your dealer as to the cleaning. If dust is allowed to accumulate in the unit over a long period of time, a fire or damage to the unit may result.

※ If dust accumulates on the power supply plug or in the wall AC outlet, a fire may result. Clean it periodically. In addition, insert the plug in the wall outlet securely.

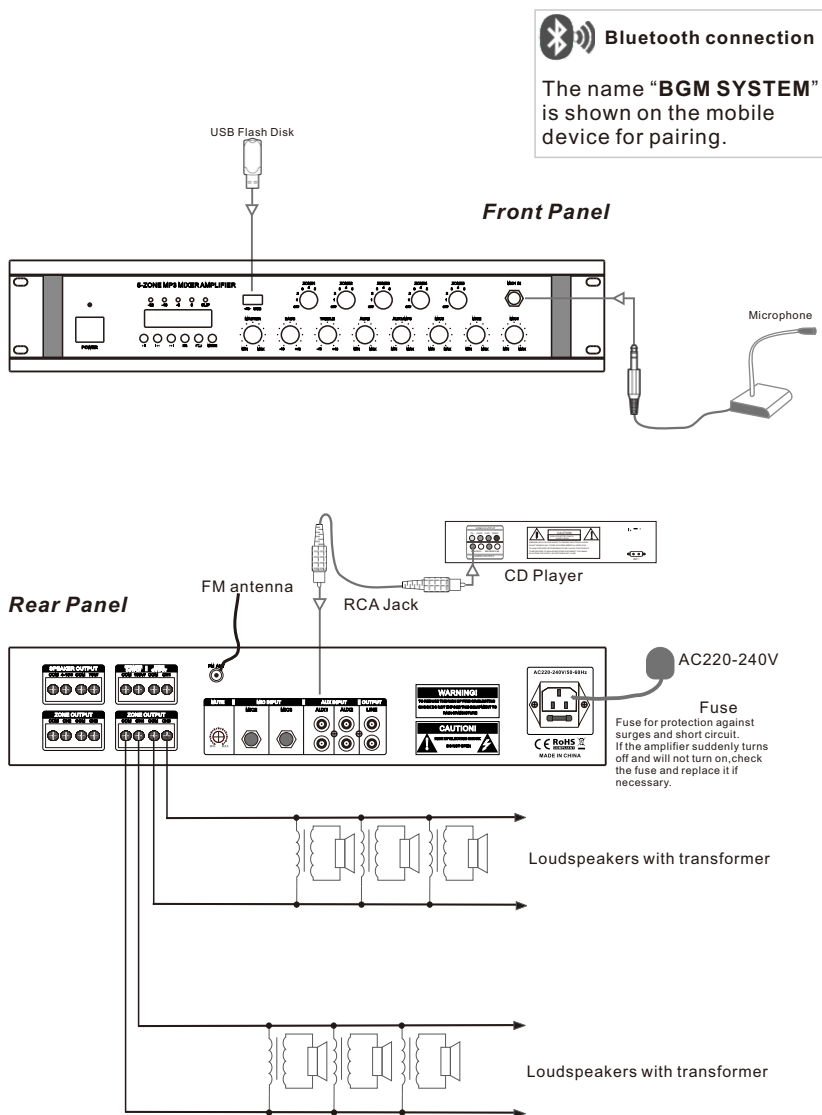
※ Switch off the power, and unplug the power supply plug from the AC outlet for safety purposes when cleaning or leaving the unit unused for 10 days or more.

Doing otherwise may cause a fire or electric shock.

Specifications

Model	PM-8070z	PM-8130z	PM-8260z	PM-8360z	PM-8500z	PM-8650z
Rated Power	60W	120W	240W	350W	500W	650W
Output Model	Overall 4-16 ohms(Ω), 70V, 100V and separate 5 zones					
MIC. Input	MIC1/MIC2/MIC3: 600 ohms(Ω) 10-15 mV, unbalanced					
LINE Input	AUX1/AUX2: 10k ohms(Ω) 200-470 mV, unbalanced					
AUX Output	0.775V (0 dB)					
Freq. Response	60 Hz ~ 15k Hz (± 3 dB)					
THD	<0.5% at 1kHz, 1/3 of rated power					
S/N	Line: 85 dB, MIC: >72 dB					
Tone	BASS: 100 Hz (± 10 dB), TREBLE: 12k Hz (± 10 dB)					
Mute Sensitivity	MIC1 overrides MIC2/MIC3/AUX1/AUX2 with 0~30 dB attenuation					
Controls	Volume controls, tone/treble control, mute control, power control					
Cooling Fan	DC 12V FAN					
Indicator	AC: 'POWER' , level: '2, 4, 6, 8, 10'					
Protection	FUSE×2A	FUSE×2A	FUSE×4A	FUSE×6A	FUSE×8A	FUSE×10A
	AC FUSE, short circuit, overload, high temperature					
Power Cord	(3×0.75 mm ²)×1.5M (standard)					
AC Power	AC220V~240V 50-60Hz					
Consumption	95W	175W	350W	485W	675W	880W
Dimension	89(H)×483(W)×366(D) mm					
Packing Size	185(H)×520(W)×435(D) mm					
Net Weight	10.50kg	11.50kg	13.80kg	14.50kg	15.50kg	19.80kg
Gross Weight	11.80kg	13.10kg	15.40kg	15.80kg	17.20kg	21.50kg

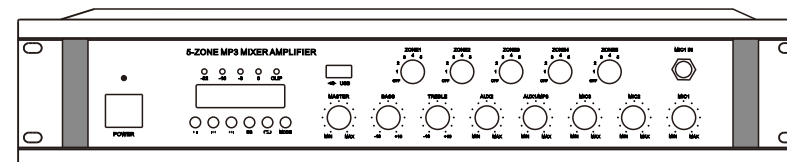
Connection Illustration



Notes:

1. Please refer to page 9 to 10 for more details on the connection of loudspeakers.
2. Please refer to page 8 for more details on the operation of bluetooth.

Descriptions & Features



The 5 Zone Mp3 Mixer Amplifiers are designed for background music/paging and public address system installations, these units are exceptional values, and are easy to install in a variety of system designs.

The mixer amplifiers have features of built-in MP3 player with USB slot for connecting external audio source, built-in FM receiver with frequency range 87.5 MHz~108 MHz, and featured Bluetooth connectivity with mobile device.

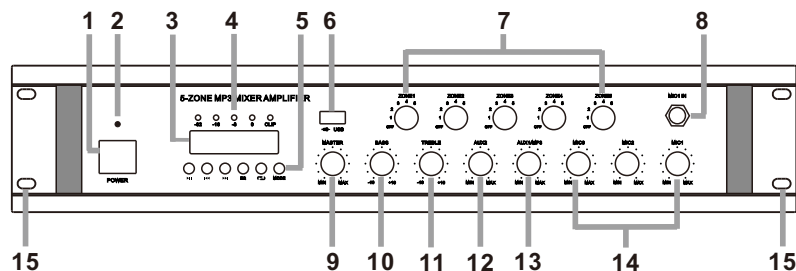
60/120/240/350/500/650 watts of amplifier power are available with either 70/100-volt or 4 to 16 ohms(Ω) loads. Also included a line level output for adding additional amplifiers.

With provided an audio output to 5 different zones within the venue, each zone has its own individual volume control manually operated on front panel. Three 6.35mm microphone inputs, MIC1 overrides MIC2, MIC3 AUX1, AUX2 with 0~30dB attenuation.

And features complete protection is provided for output short circuit, overload, high temperature, peak current limiters.

- ※ **Built-in media source: USB, FM Tuner and Bluetooth.**
- ※ **Power rates: 60W/120W/240W/350W/500W/650W available.**
- ※ **5-zoned 100V speaker outputs with individual volume control.**
- ※ 70V/100V and 4~16 Ω speaker loads.
- ※ Standard 19" 2U height.
- ※ 3 MIC inputs, 2 AUX inputs, 1 LINE output.
- ※ Individual volume controller for MIC & AUX inputs.
- ※ MASTER volume controller.
- ※ BASS and TREBLE tone controller.
- ※ MIC1 has priority over other inputs.
- ※ Protections of short circuit, overload, high temperature.

Front Panel



1. Power ON/OFF: Switch on or off this unit.

2. Power indicator: Lights green when the power is switched on.

3. Screen: Displays the working situation of playing programmes.

4. LED level meters: Indicate the output level.

5. Media source controls:

Play/Pause ►||

Press this button to stop playing.

Press this button again to return to the song.

PREV ◀◀

Press this button to return to the previous song or fm stored station.

Keep pressing this button for a few seconds to decrease the volume output of media.

NEXT ▶▶

Press this button to move to the next song or fm stored station.

Keep pressing this button for a few seconds to increase the volume output of media.

EQ: To create 4 different equalizer effects for the USB mode.

REPEAT ↺

Press this button to play a single song or all the songs repetitively, or to play the songs at random.

MODE: To select the mode among USB,Bluetooth and FM.

6. USB port: Allows to play U disk.

7. Zone1~Zone5 volume controls: Allow to adjust the volume of the each zone output.

8. MIC1 input: Allows to connect 6.35mm plug microphone.

9. Master volume control: Allows to control the volume all inputs.

10. Bass control: To adjust the bass tone.

11. Treble control: To adjust the treble tone.

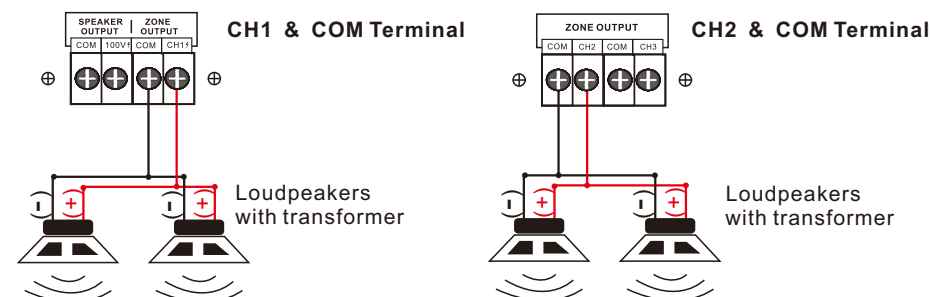
12. AUX2/MP3 volume control: To adjust the volume of AUX2 input or media player.

13. AUX1 volume control: To adjust the volume of AUX1 input.

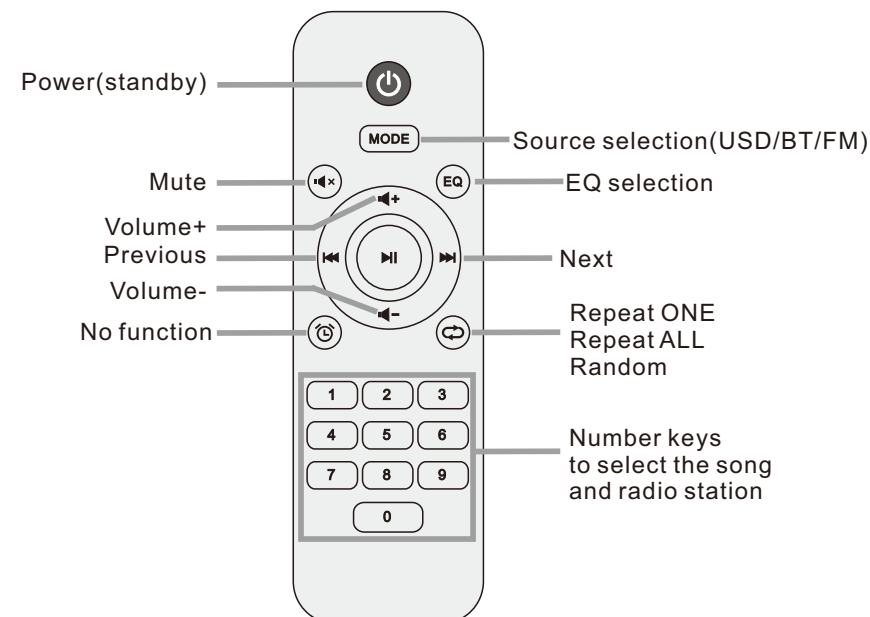
14. MIC1,MIC2,MIC3 volume controls: To adjust the volume of microphone inputs.

15. Rack mounting holes: Allow this unit to be installed in the 19" rack.

When there are two zones or more than two zones of 70V or 100V loudspeakers in the pa system, need use the outputs of the 5 zones (CH1,CH2,CH3,CH4,CH5) and the corresponding COM terminal.



Remote Control

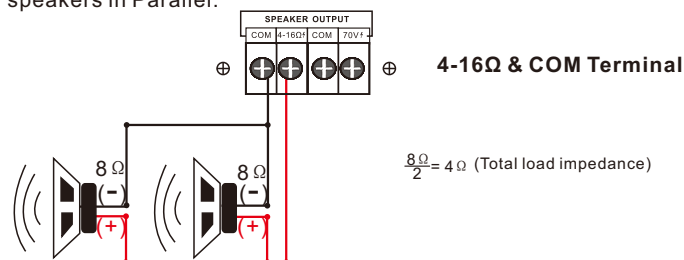


When the speakers only allow for connection of low impedance

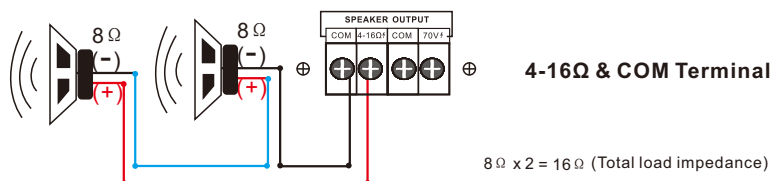
4-16Ω low impedance output

This output allows connection of low impedance loudspeakers without transformers. When two or more loudspeakers are used ensure that they are wired in such a way in Series, or in Parallel, or in Series & Parallel Combination that total load impedance remains between 4Ω and 16Ω.

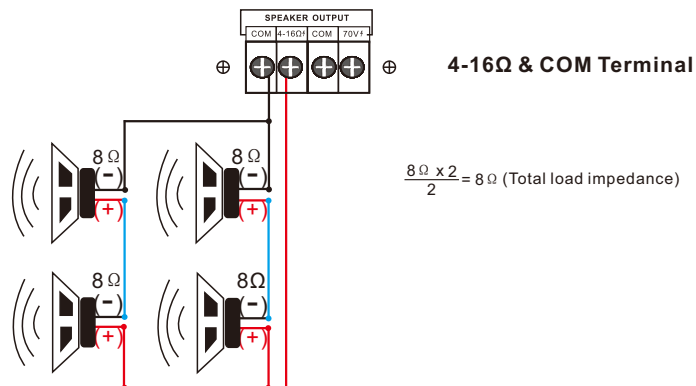
A. Connecting speakers in Parallel.



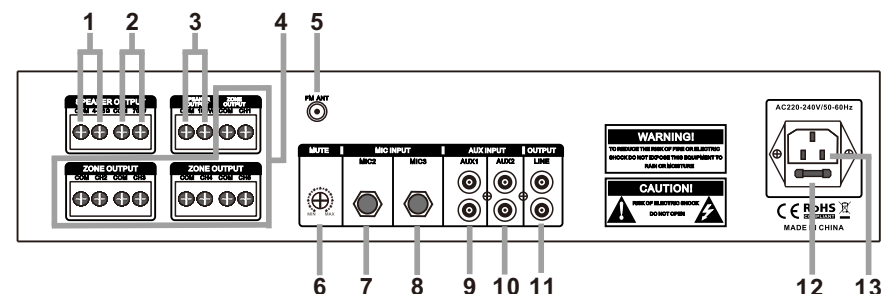
B. Connecting speakers in Series.



C. Connecting speakers in Series & Parallel combination.



Rear Panel



1. COM & 4~16Ω:

Use these two connectors for the loudspeakers without transformer.

2. COM & 70V:

Use these two connectors when there is only one zone of 70V loudspeakers.

3. COM & 100V:

Use these two connectors when there is only zone of 100V loudspeakers.

4. Zone1 to Zone5:

When there are two zones or more than two zones of 70V or 100V loudspeakers in the pa system, need use the outputs of the 5 zones (CH1, CH2, CH3, CH4, CH5) and the corresponding COM connectors.

5. FM connector:

Connect the included FM antenna here.

6. Mute sensitivity control:

- Adjust the threshold level to activate the MIC1 input priority function.
- Turn to the position of "MIN", the MIC1 input has priority over other inputs.
- Turn to the position of "MAX", the MIC1 input misses priority over other inputs.

7. MIC2: Allows to connect the 2nd microphone on the rear panel.

8. MIC3: Allows to connect the 3rd microphone on the rear panel.

9. AUX1 input: These two RCA connectors allow to accept stereo "L" & "R" from external audio source device, then converted to mono mode internally.

10. AUX2 input: These two RCA connectors allow to accept stereo "L" & "R" from external audio source device, then converted to mono mode internally.

11. Line outputs: Can supply audio signal to two additional amplifiers in the same time.

12. AC fuse drawer: Contains one main and one spare fuse.

13. AC power inlet: Connect the included power cord with 3-pin plug.

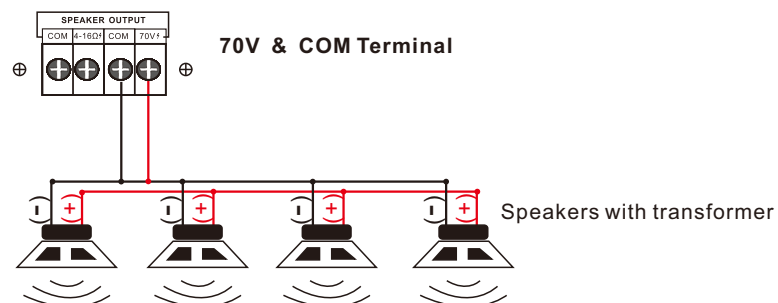
Connections of Speakes

Important Notes

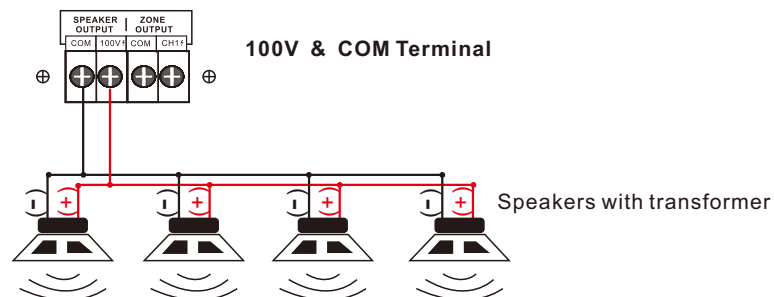
This amplifier has different loudspeakers outputs of 100V, 70V and low impedance 4-16Ω. **It's only possible to use one output at the same time, connecting more than one may damage internal parts of the amplifier. Each of 100V, 70V, 4-16Ω terminals must work with COM.**

Most commonly used in for PA system with the loudspeakers built-in 70 or 100V step-down transformer. All loudspeakers are wired **in parallel** and the sum of their power must not exceed the rated output power of the amplifier. **It is advisable not to load the amplifier at more than 70% to 80% of its rated output power when using music sources.**

When there is only one zone of 70V loudspeakers in the pa system, Please use the "70V & COM" terminal



When there is only one zone of 100V loudspeakers in the pa system, Please use the "100V & COM" terminal



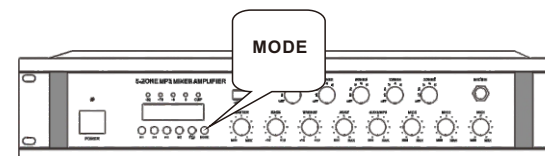
Bluetooth Operations

*Note: The Bluetooth name of this amplifier is **"BGM SYSTEM"**

In order to enjoy music from a Bluetooth device on this amplifier, the Bluetooth device must first be paired with this amplifier.

Once the Bluetooth device has been paired, it does not need to be paired again.

1. Press the MODE button on the front panel of the amplifier to switch the input source to "Bluetooth".



2. Activate the Bluetooth settings on your mobile device.

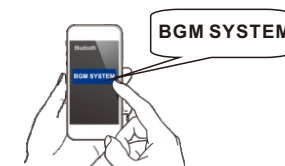


3. Select this unit **"BGM SYSTEM"** when its name appears in the list of devices displayed on the screen of your mobile device.

Perform the connection with your mobile device close to the unit (about 1 m).

At the end of the pairing, the name **"BGM SYSTEM"** appears on the paired list of your mobile device.

*Note: Enter **"1688"** when the password is requested on the screen of the your mobile



4. Play music using any app on your mobile device.

* The next time the input source is switched to Bluetooth, this amplifier automatically connects to the last Bluetooth device that was connected.

