



Operating Manual

PUBLIC ADDRESS SYSTEM

CAUTION

TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

MIXER AMPLIFIER WITH USB/SD/FM TUNER PM-1060/PM1120

*LY International Electronics Co., Ltd.
[Http://www.lyintlcorp.com/](http://www.lyintlcorp.com/)*

Thank you for purchasing the **Mixer Amplifier with MP3/SD/FM tuner**. 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
Warranty card	1

SAFETY PRECAUTIONS

- ※ Be sure to read the instructions in this section carefully before use.
- ※ Make sure to observe the instructions in this manual as the conventions of safety symbols and messages regarded as very important precautions are included.
- ※ We also recommend you keep this instruction manual handy for future reference.



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.

WARNING

When Installing the Unit

- ※ Do not expose the unit to rain or an environment where it may be splashed by water or other liquids, as doing so may result in fire or electric shock.
- ※ Use the unit only with the voltage specified on the unit. Using a voltage higher than that which is specified may result in fire or electric shock.

- ※ 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.

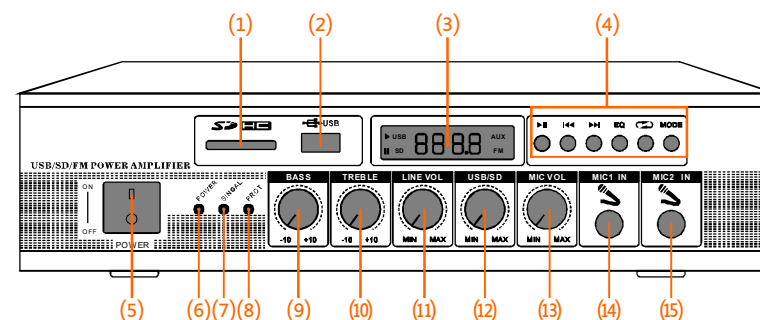
DESCRIPTIONS & FEATURES

These table-top mixer amplifiers are designed as convenient solution for small to medium PA installations with USB/SD player and FM tuner in a compact housing. Inputs for microphone, line input, USB/SD player are governed by front panel volume controls. The digital screen displays the working status of playing programmes, which can be controlled by the front panel buttons or the remote control. And features two MIC inputs and one line input with 60/120 watts of amplifier power are available with either 70/100-volt or 4 to 16 ohms(Ω) output loads. Also included a line level output for adding additional power amplifiers. And features complete protection is provided for output short circuit, overload, high temperature, peak current limiters.

- ※ Compact metal housing with front panel of aluminium alloy.
- ※ SMT circuit boards with highly stable performance.
- ※ Powerful TOSHIBA amplifier tubes.
- ※ Pure copper transformers for power supply and 70V/100V audio outputs.
- ※ 2 microphone inputs and 1 line input.
- ※ Built-in players of USB/SD, and FM tuner.
- ※ High-definition display for the working status of playing programmes.
- ※ 70/100-volt and 4 to 16 ohms(Ω) output loads.
- ※ Individual volume controller for inputs.
- ※ BASS and TREBLE tone controllers.
- ※ Individual LED indicator for POWER/SIGNAL/PROTECTION.

Optional function: Built-in receiver of wireless microphone
(1 Hand-held + 1 body-packed type wireless microphones).

FRONT PANEL



- | | | |
|----------------------------|-----------------------------------|----------------------------------|
| (1) SD Input Interface | (2) USB Input Interface | (3) Digital Display |
| (4) Function Buttons | (5) Power Switch | (6) Power Indicator |
| (7) Signal Indicator | (8) Protection Indicator | (9) Bass Controller |
| (10) Treble Controller | (11) Line Input Volume Controller | (12) USB/SD/FM Volume Controller |
| (13) MIC Volume Controller | (14) MIC1 Input | (15) MIC2 Input |

BUTTONS'FUNCTIONS

MODE : To select the mode of the module FM/SD/USB/LINE input.

▶▶ **PLAY/PAUSE** : 1.Press this button to Play or to Pause the USB/SD.

2.Pressing this button briefly and the FM tuner shall automatically search the stations and store them in the memory.

◀◀ **PREV** : Pressing this button shall return to the previous song or FM stored station.

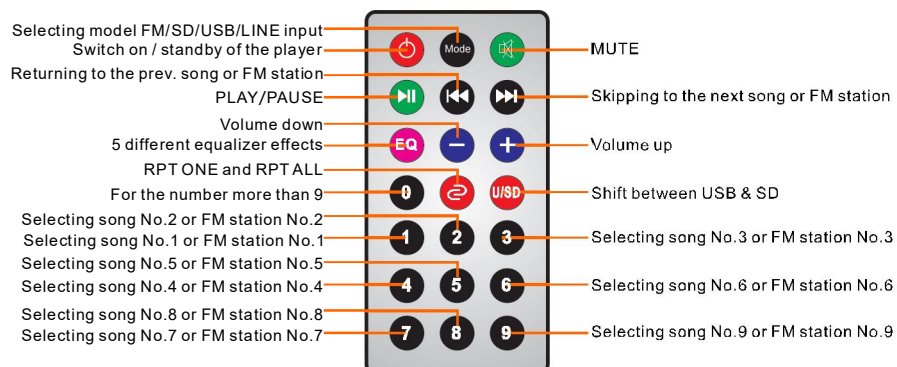
▶▶ **NEXT** : Pressing this button shall return to the previous song or FM stored station.

◁ **REPEAT** : Press this button to play the song repetitively;

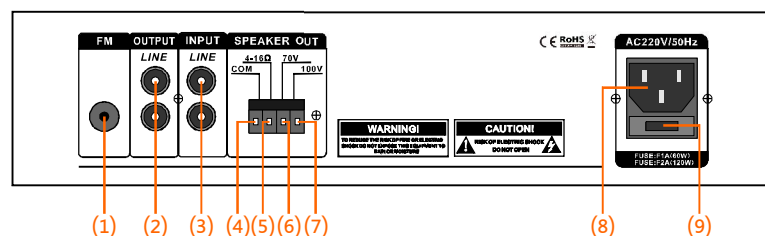
Pressing this button would shift between RPT ONE and RPT ALL.

EQ:To create 5 different equalizer effects for the USB mode

REMOTE CONTROL



REAR PANEL



(1) FM Antenna Input

(2) Audio Line Output

(3) Audio Line Input

(4) COM

(5) Speaker Output Terminal 4-16 Ω

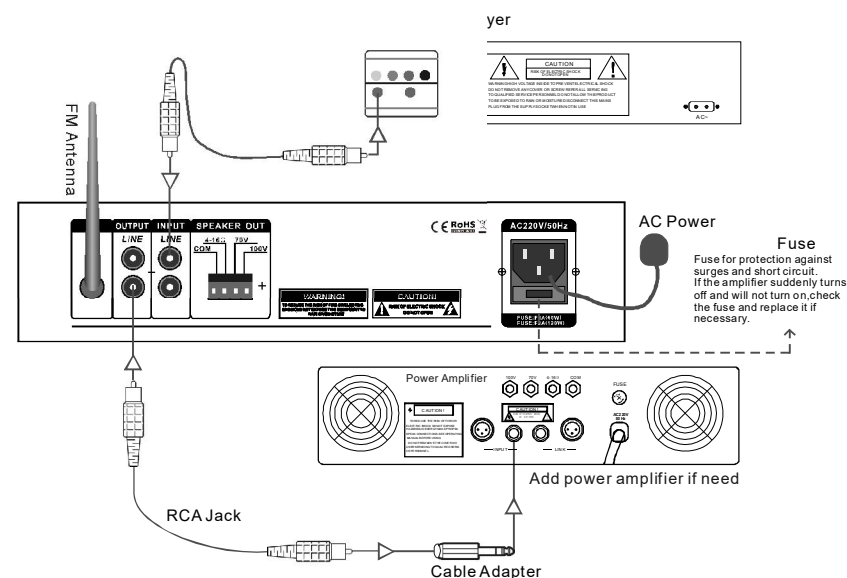
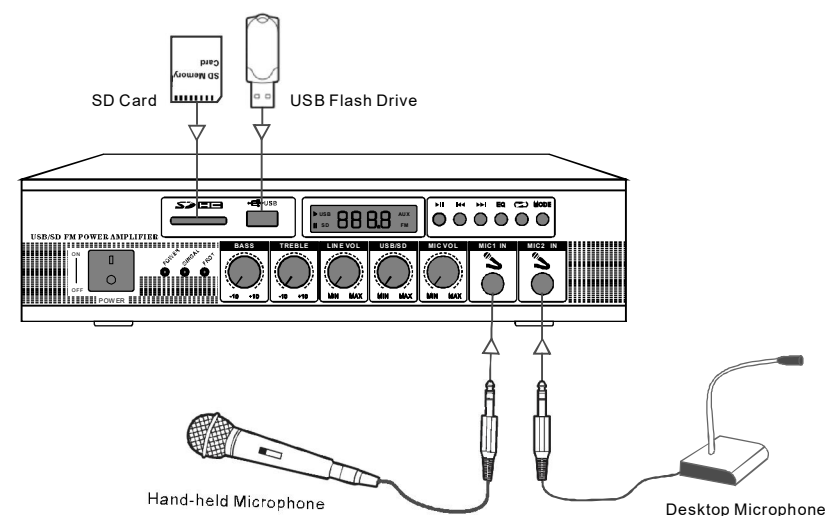
(6) Speaker Output Terminal 70V

(7) Speaker Output Terminal 100V

(8) Power Supply

(9) Fuse: 1A(60W), 2A(120W)

CONNECTION ILLUSTRATION

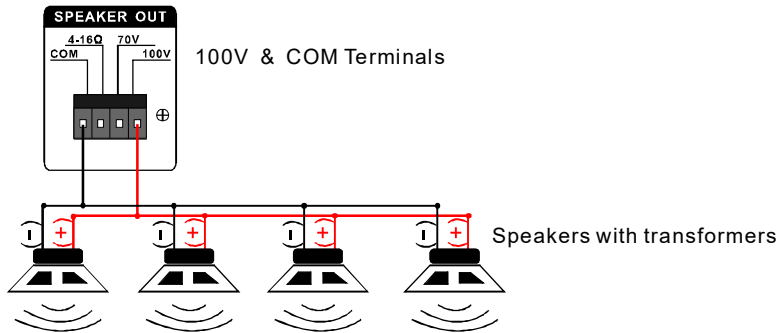


Connections of Speakes

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 (common) terminal.

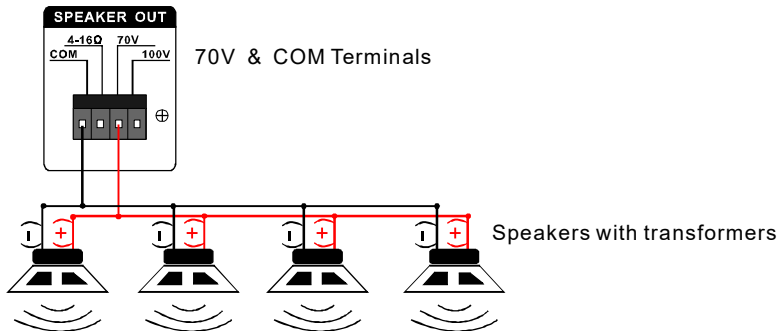
100V line output

This system is most commonly used in for PA system. Only use 100 V line loudspeakers with transformers. 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% of its rated output power when using music sources.



70V line output

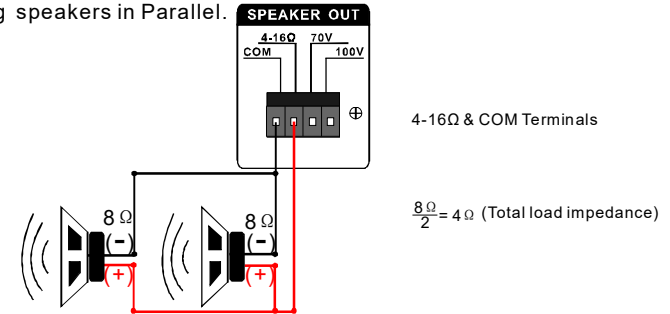
This system is common in the USA, it operates on the same principles as 100 V line except that at rated output power the amplifier has 70V RMS on its output terminals.



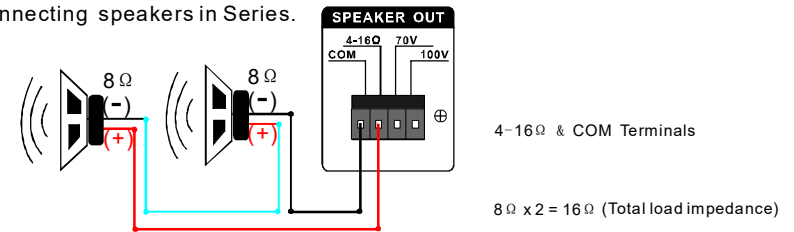
4-16Ω low impedance output

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.

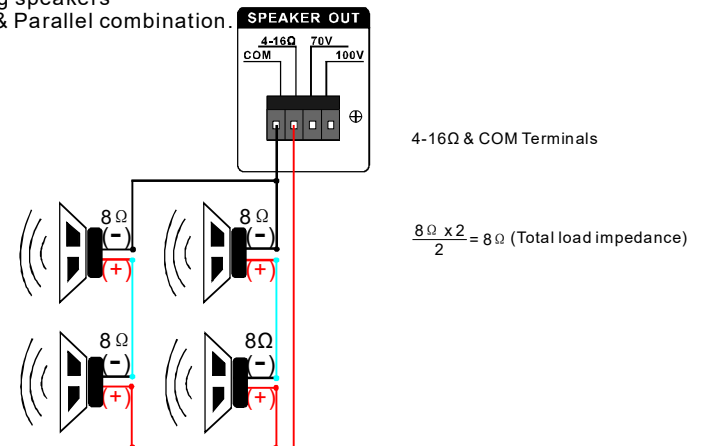
A. Connecting speakers in Parallel.



B. Connecting speakers in Series.



C. Connecting speakers in Series & Parallel combination.



SPECIFICATIONS

Model	PM-1060		PM-1120
Rated Power	60W		120W
Output Terminals	Low impedance:4-16 ohms (Ω)		
	60W	Voltage line:70V(51 ohms), 100V(167 ohms)	
	120W	Voltage line:70V(41 ohms), 100V(83 ohms)	
MIC Input	MIC1/MIC2: 600 ohms(Ω) 5-10 mv ,unbalanced		
LINE Input	LINE: 10k ohms(Ω) 150-470 mv ,unbalanced		
LINE Output	0.775V (0 dB)		
Frequency Response	60 Hz ~ 15k Hz (± 3 dB)		
THD	<0.5% at 1kHz, 1/3 rated power		
S/N	Line:85 dB , MIC:>72 dB		
Tone	BASS:100 Hz (± 10 dB) , TREBLE:12k Hz (± 10 dB)		
Cooling	DC 12V FAN		
Protection	AC FUSE x 1A		AC FUSE x 2A
	AC fuse,short circuit,overload,high temperature		
Power Cord	(3×0.5 mm²)×1.5M (standard)		
Power Supply	AC 220V ± 10% 50-60Hz (Optional)		
Power Consumption	84W		168W
Dimension	72(H)×305(W)×275(D) mm		
Packing Size	130(H)×345(W)×345(D) mm		
Net Weight	5kg		5.5kg
Gross Weight	5.7kg		6.2kg

Specifications are typical; individual units might vary.
Specifications are subject to change and improvement without notice.

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.