PAB-5240

Power Amplifier (240V)

User Manual



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Safety Instruction

1. Read the instruction manual carefully before installing and using this unit and keep this manual properly preserved.
2. Please follow the instructions and be aware of warning indications.
3. Do not use any spare parts without the recommendation of your dealer. Please use the fixing accessories offered by BXB. If the system is broken due to the improper fixing, BXB would not bear the responsibility for compensation.
4. Make sure the power cord has been fixed properly. Do not use any extension cords as this would result in fire or short circuit.
5. Do not stuff anything or spill liquid of any kind onto or into this unit.
6. Contact maintenance technicians if the conditions occur: A. Power cord or plug is damaged; B. Liquid has been spilled into the unit; C. The product does not work normally; D. The unit has been dropped or the cover has been damaged; E. The function cannot work completely.
7. Install this unit carefully. Impacting and fierce shaking should be avoided.
8. Do not disassemble or remodel this unit: A. High voltage and sensitive electrical circuit are inside of the unit. Do not disassemble it to prevent electric shock; B. The specification of any replaced spare part should be validated by manufacturer, or it may cause fire and short circuit.
9. Do not use this unit in the environment with improper temperature, moisture, and power level to avoid component damage. The adequate operation temperature is 0°C ~ 40°C (32 °F ~ 104 °F); relative humidity below 90%.
10. Do not expose the apparatus to rain and moisture. Please put it at a dry location to avoid any damage of the inside components. Adequate coverage is requisite if the unit is used outside.
11. Do not clean this unit and its accessories with liquid or chemical detergent. Just use a damp cloth for cleaning.
12. Do not switch on/off the power rapidly no matter it’s operating or off. It can avoid the operation problem from the sensitive electronic circuit.

Caution: The static electricity treatment of printed circuit boards should follow ESD safety measure. Ground connection should be done well.

Caution: Please be aware of the voltage accordance with that in your country.

Product Features

- Two channels model: 120W RMS/per channel. Adaptable with 4-8 Ohm
- loads; suitable for small to medium sized meeting rooms.
- Bridged mode 240W output for 70V or 100V loudspeakers (direct drive).
- Power down after 15 minutes of no signal and comply with Energy Star
- Power consumption limits of < 0.5W in standby.
- LED at the front panel to indicate the current operation status.
- Selection for power-up mode, standby mode, and trigger mode.
- Switch for High Pass Filter to reject the frequency below 80Hz, avoiding
- the damage to loudspeakers.
- Equipped 12VDC terminal block for remote control.
- Short circuit & overheating protection without fan.

Description of the Panel

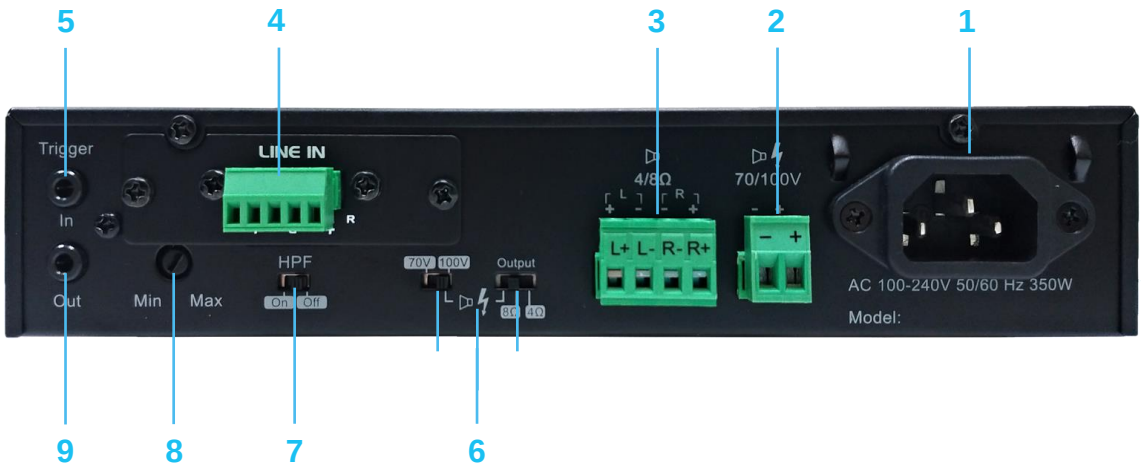
Front Panel



1. **ON:** The unit remains powered on and active, without entering standby mode.
2. **AUTO:** After 15 minutes of no audio input, the unit enters standby mode; when audio signals are input for about 1-2 seconds, the volume gradually increases.
3. **TRIGGER:** The unit's power on/off can only be controlled via the TRIGGER IN port on the rear panel, providing a 12VDC trigger voltage.
4. **LED indicactors:** Green indicates the power-on state. Red indicates standby mode.

Description of the Panel

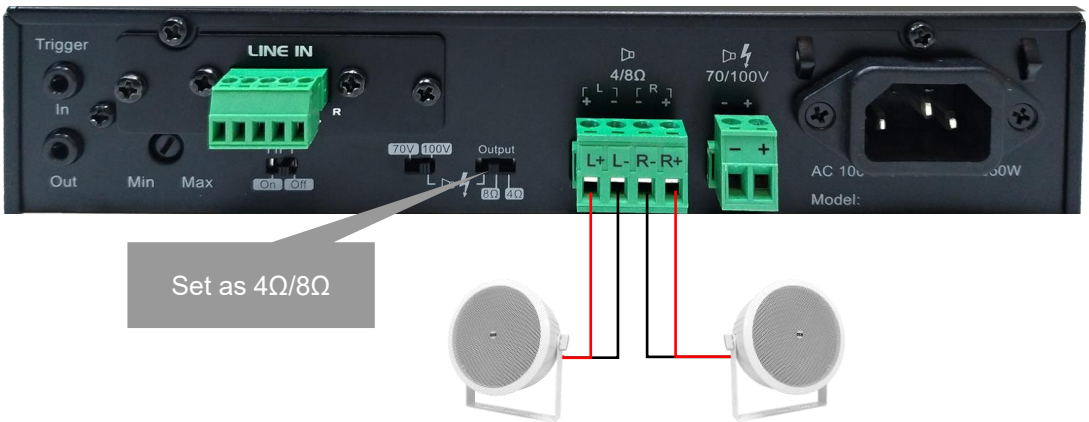
Rear Panel



1. **AC INPUT**
2. **70V/100V:** connect with constant- voltage speakers directly.
3. **SPEAKER:** connect with 4Ohm or 8Ohm loudspeakers.
4. **LINE IN:** 5 pin Euro terminal.
5. **TRIGGER IN**：apply 12VDC to active the unit.
6. **OUTPUT SELECT SWITCH:** 4Ohm/8Ohm and HIZ for 70V/100V.
7. **HPF:** High Pass Filter (80Hz).
8. **LEVEL:** adjust the level of output.
9. **TRIGGER OUT:** provide 12VDC to trigger another device.

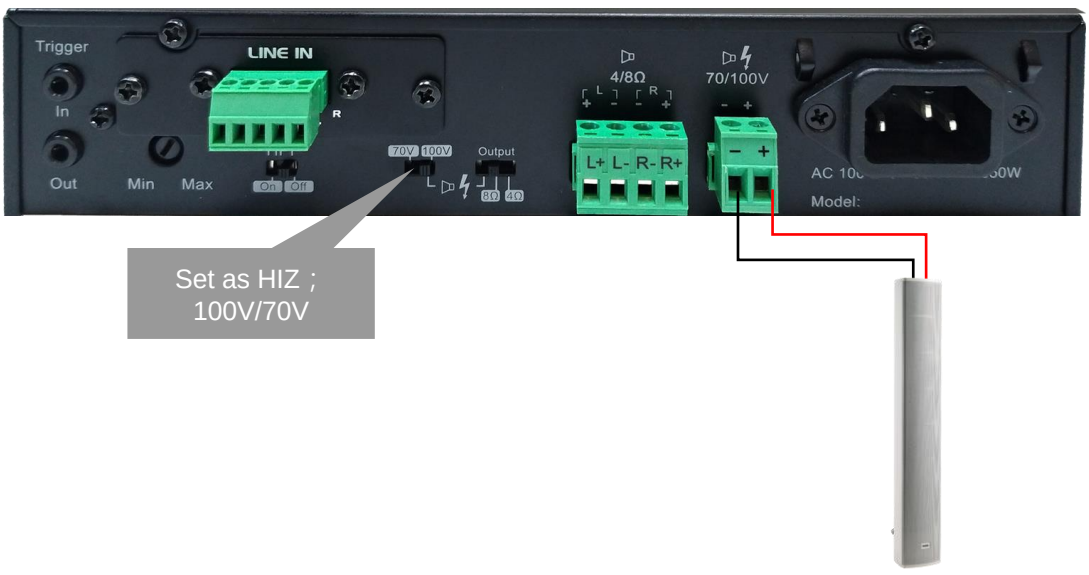
Connection

Stereo Mode (4Ω/8Ω)



WS-651
6.5" ABS Pendent-ball Speaker
(8Ω output)

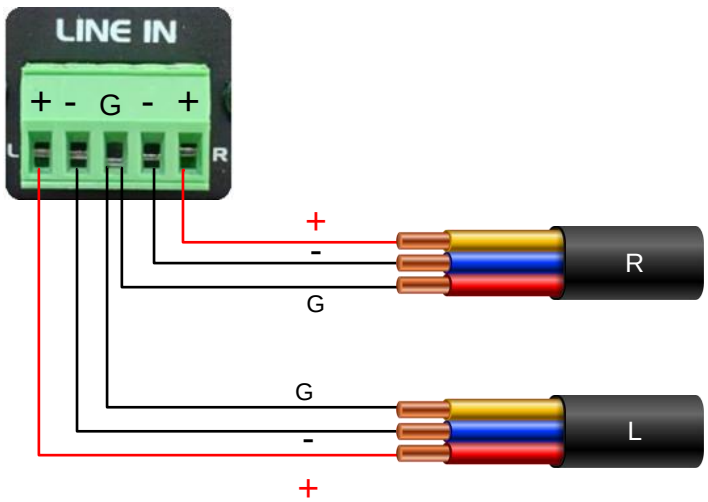
Bridge Mode (HIZ 70V / 100V)



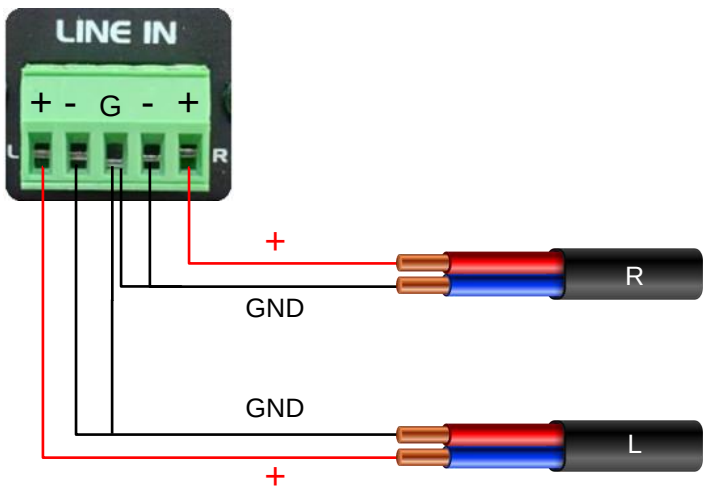
WS-8140
Waterproof Hi-Fi Column
Speaker

Connection

Balanced Input

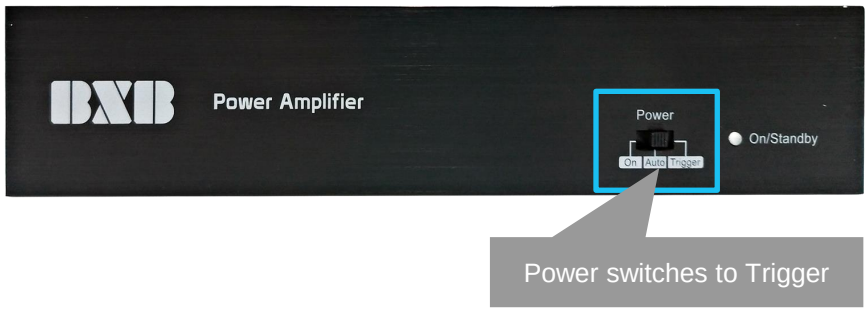


Unbalanced Input



Triggered Boot-up Connection Diagram

The trigger start function TRIGGER IN requires a DC12V power supply, and the Power switch should be switched to Trigger.





Attention:

The trigger connection port is of 3.5mm specification. You need to purchase a 3.5mm connector separately and connect it to the DC 12V power cord in order to use it.

Specifications

Stereo Mode (4Ω/8Ω)

120W x 2, 8 Ω (31 V) RMS output (steady state), per channel @ < 1 % THD+N
120W x 2, 4Ω (22 V) RMS output (steady state), per channel @ < 1 % THD+N

High-pressure Mode (HIZ 70V/100V)

240W, 70V @ < 1 % THD+N 240W, 100V @ < 1 % THD+N

Frequency Response

20 Hz - 20 kHz, +/- 2 dB @ 4Ω Load

Signal to Noise

>90dB @ 1W (20 Hz - 20 kHz)

Input Sensitivity

1.0V (+2.2dBu) @ Max Output 4Ω

Gain Value

25 dB @ 4Ω

Input Impedance

>10k, balanced

Maximum Input Level

12.3 V (+24 dBu)

Trigger In/Out

DC 12V

High Pass Filter

80 Hz (± 2dB)

Input Connector

5 pin Euro terminal

Trigger Connector

3.5 mm Jack

Output Connector

4 pin Euro terminal (4Ω/8Ω); 2 pin Euro terminal (70V/100V)

Dimensions

214mm(W) x 249.8mm(D) x 44mm(H)

Net Weight

1.94 Kg

Voltage/Power Consumption

100 - 240 VAC, 50 - 60 Hz/350W



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