

AD-1PA+

User Manual

ISO9001 Quality Management System Certified Enterprise

Accessories		
Number	Item	Qty
1	Trigger cable	1 piece
2	Power cord	1 piece
3	Certificate of qualification	1 piece
4	User manual	1 piece



Name and Content of Toxic or Harmful Substances or Elements in the Product

Part Name	Toxic or Harmful Substances or Elements					
	Lead(Pb)	Mercury (Hg)	Cadmium (Cd)	hexavalent (Cr ⁶⁺)	biphenyl (PBB)	Polybrominated diphenyl ether (PBDE)
Airframe/Box	○	○	○	○	○	○
Solid Plate/ Electrical Component	×	○	○	○	○	○
Plastic structural member	○	○	○	○	○	○
Metal Construction	○	○	○	×	○	○
Cable	○	○	○	○	○	○
Transformer	○	○	○	○	○	○
Speaker/Microphone	×	○	○	×	○	○

Instructions:

“O” represents the content of the toxic and hazardous substance in all homogeneous materials of the component is less than SJ/T11363-2006 limits specified in the standard.

“X” represents the amount of a hazardous or toxic substance in at least one homogeneous material of the component over SJ/T11363-2006 limits specified in the standard.

Attention: “X” represents there is no substitute for existing technology.

Thank you for using our audio products. With the philosophy of “high technology, high quality and high taste”, we make products with durable materials, exquisite technique, rigorous circuit & advanced technology and offer professional service!

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Important Protective Measures for Attention



WARNING

ELECTRIC DANGER DO NOT OPEN



To reduce risk of electric shock, do not remove the outer cover (or rear panel). For maintenance, it should be carried out by qualified maintenance people. To avoid fire and electric shock hazards, do not get the unit wet or damp.

Equipment safety standard : Class II

- 1 Read the protective measures: read all warning messages about protection and operation in the instructions carefully before using the equipment.
- 2 Follow instructions: please follow the instructions and do not violate the instructions.
- 3 Place the product on where manufacturer recommends: to avoid overturning, do not push too hard or suddenly stop when moving.
- 4 Keep away from water and moisture: do not place equipment near water such as bathtub, basin, sink, washing machine, etc. Do not use equipment at high temperatures or high humidity environment, such as a damp basement.
- 5 Cleaning: do not use liquid or mist cleaners. Please use dry cloth to clean. Turn off the machine and power off before cleaning the equipment.
- 6 Power supply: use the power supply according to marks and tags. Connect and place the wires properly. Do not step on wires to avoid damage. Pay special attention to wires to plugs, receptacles and connecting ports.
- 7 Ventilation: the cabinet of equipment is designed with venting holes. To ensure reliable performance, please avoid overheating and do not cover the equipment. Do not use the equipment on beds, sofas, carpets etc.
- 8 Keep away from heat: do not put that machine near heat sources, such as radiators, stoves and other objects that generate heat (including power amplifiers).
- 9 Prevent unknown objects or liquids - objects or liquids should be prevented from falling through the holes into the equipment, because it might contact with current or live parts that might cause fire or electric shock. Do not place the equipment in rain or water splashing place. Do not put water containers such as vases on top of it.
- 10 Please connect well all input/output wires before switching on.
- 11 Thunder and lightning: unplug the power cable in thunder and lightning weather because it can effectively prevent lightning impulses to protect the equipment.
- 12 Protections: unplug the machine when you do not use it for long period. Good grounding can prevent the machine from being damaged.

13 Maintenance: do not open the cabinet without professional instruction to avoid electric shock.

Contact with the product managers where you buy this machine in the following cases:

- a) Unknown parts or liquid enter the machine.
- b) The machine is soaked.
- c) The machine works abnormally.
- d) Machine falling or damage.

14 Battery: for environment protection, please dispose batteries in appropriate ways.

15 Disconnection device of main power supply: this machine uses power plug and coupler as the disconnecting devices. Power plug and coupler should be easily operated.

16 This product is only suitable for safe use in altitude below 2000m.



17 This product is not suitable to be used in tropical climates.



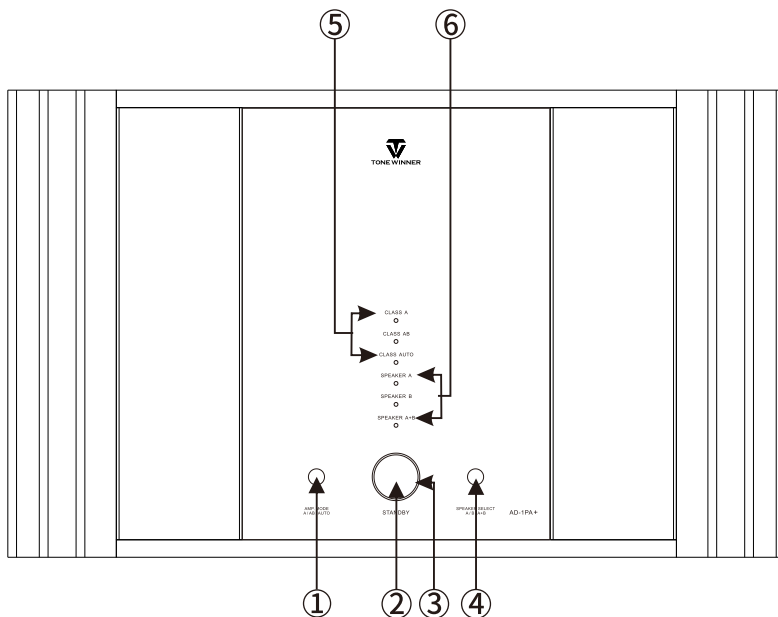
Main Features

- Class A circuit that adopts full balance, full symmetry, differential input to differential BTL power output.
- Both left and right channels adopt independent power supply, which boost the channel separation to the highest degree.
- Output power 300W/8Ω each channel. It uses 1,200W high quality toroidal transformer and audio special capacitor up to 180,000uF. It also uses high power transistors to parallel output, offering 60A current output.
- High end aluminum chassis, rigorous internal layout, and strong anti-interference ability.
- Specially gold plated IC socket for audiophiles to replace operational amplifier.
- It adopts Tonewinner's patented technology: High/low voltage power supply intelligently switch management. It can meet the needs for Hi-Fi Class A power output, and also conforms to energy conservation and environment protection concept (patented number: ZL201420783891.8).
- Multiple circuit protection: short circuit protection, overheating protection and DC protection.
- It adopts Tonewinner's patented technology: ~110-115V/~220-230V power supply auto-switch (patented number: ZL201420543195.X).

Functions

- Balance and unbalance inputs.
- Manual/Trigger/Standby functions.
- Amplifier static bias selections: ClassA/ClassAB/AUTO.
- Speaker output mode: A/B/A+B;
- Front panel indicating functions: Standby/ON/Protection.
~110-115V/~220-230V power supply auto-switch

Front Panel



① The static bias model selecting button(select Class A/ Class AB/ AUTO mode by turns)

Class AB Mode:

In this mode, the temperature detecting circuit will not work. The amplifier will remain in this mode, the heat dissipation will distinctly reduce and the static power consumption comparing to the Class A mode will also reduce.

Class AUTO Mode:

In this mode, when the unit is working in Class A mode, if the temperature of the heat sink goes up to the set value, the unit will automatically switch from Class A mode to Class AB mode. But when the temperature reduces to the set value, the unit will automatically switch from Class AB mode to Class A mode. If you select this mode, the heat dissipation will reduce comparing to Class A mode, and this will keep the unit always in a relatively safe working mode.

Class A mode:

In this mode, the temperature detecting circuit will not work. The unit remains in this mode and the heat dissipation will distinctly increase comparing to the Class AB mode and AUTO mode. Please note that if the temperature is high or the heat emission condition is bad (for example the unit is put in a narrow chassis), you'd better not select this mode. In this condition, you should select the Class AB mode or Auto mode, in case there is potential risk or unnecessary loss.

② Toggle switch for standby/ON

Front Panel

③ Indicator for standby/ON

RED for standby, BLUE for ON, FLASHING RED for amplifier protection. If the amplifier is abnormally protected, the amplifier will automatically power off from main power and go into standby.

④ The speaker output mode selecting button(select A/B/A+B mode)

A mode: The unit outputs at the speaker binding post of A mode.

B mode: The unit outputs at the speaker binding post of B mode.

Note: This function is made specifically for the users who have more than one set of speaker in different types and functions. For example, you can connect a set of Hi-Fi speakers to the A mode output terminals and connect the home theatre speakers to the B mode terminals, so if you want to listen to Hi-Fi music, you can select A mode output; if you want to watch movie together with your family, you can select B mode output, which can avoid the trouble of frequently changing the speaker wires.

A+B mode: The unit outputs in parallel at the speaker binding post of A mode and B mode.

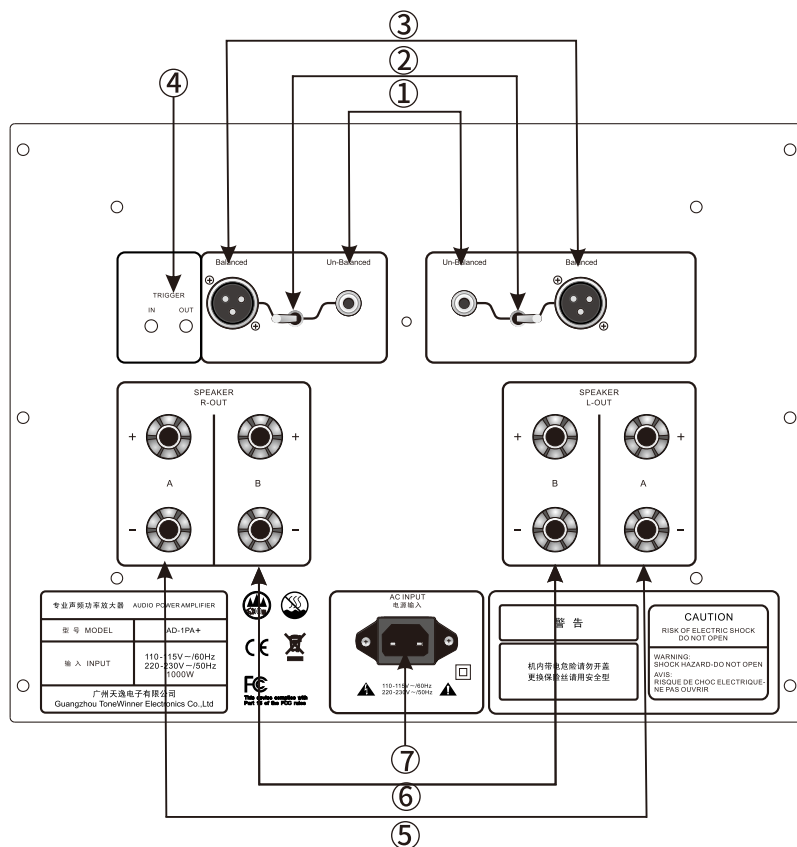
If your high-end speaker has the function of bi-wiring, you can select A mode and B mode output in parallel. For example: connect the A mode output terminals with tweeter and connect the B mode output terminals with woofer, which will bring more fun to you.

⑤ The static bias model indicator (usually in blue)

⑥ The speaker output mode indicator (usually in blue)

Note: When the unit is in standby, the static bias mode indicator and the speaker output mode indicator are all off. Then if you push the STANDBY or trigger to turn on the unit, the 6 indicators will lit by turns from bottom to top. When the unit works properly, the bias mode indicator and the output mode indicator are all lit accordingly. When the unit works abnormally and in protection, all indicators will turn into red flashing.

Rear Panel

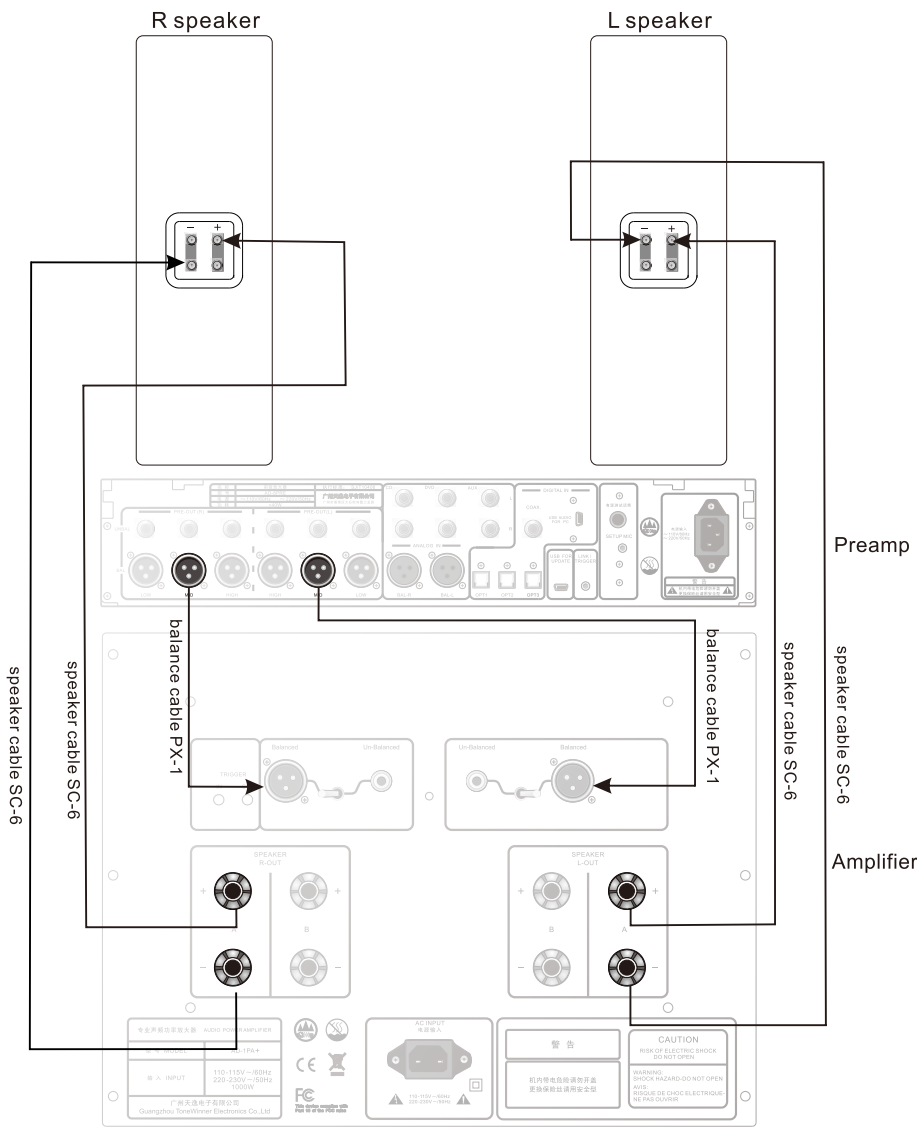


- ① RCA input jacks
- ② RCA and XLR switch
- ③ XLR input jacks
- ④ Trigger input or output jacks
- ⑤ A mode speaker output terminals
- ⑥ B mode speaker output terminals
- ⑦ Power AC INPUT ~110-115V/~220-230V

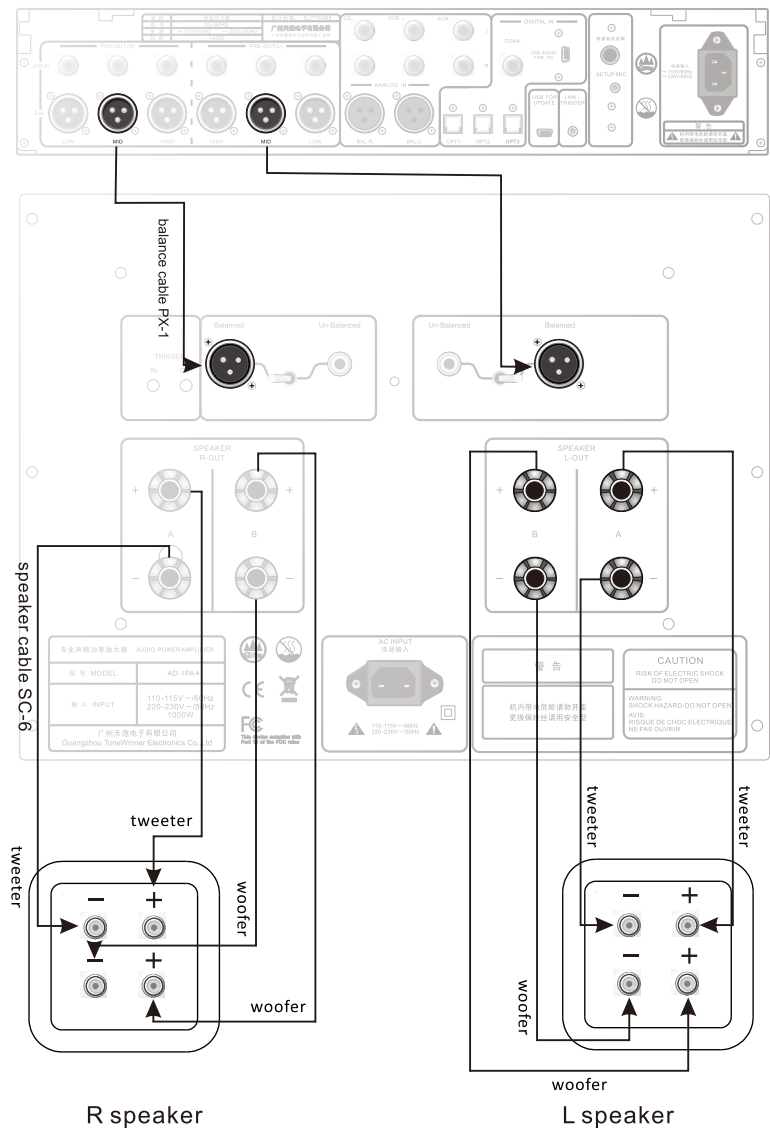
Note: before you turn on the unit, make sure all the input, output terminals are connected correctly to other audio equipment. When the unit is working normally, plugging out signal input cables or jacks may make the unit turn into standby protection mode. In this condition, please reboot the unit.

Audio System Configurations

1.Connection map of standard mode playing system



2.Connection map of Bi-wiring mode playing system



Specification

Model: AD-1PA+

S/N: $\geq 108\text{dB}$ (A weight, balance input)

$\geq 110\text{dB}$ (A weight, unbalance input)

Frequency response : 10Hz-100 kHz(+1/-3dB)

Distortion: $\leq 0.008\%$ (1kHz, normal working condition)

Output power: 300W(THD=1%, 1kHz, 8 Ω , single channel)

Rated impedance: 8 Ω

Gain: 29.5dB \pm 1dB

Class A static power consumption:260W-300W

Class AB static power consumption:70W-110W

Standby power consumption:<0.5W

Equipment Safety Protection Standard: Class II

1. Please read the manual and safety precautions carefully before using.
2. The product should be mounted somewhere ventilated and dry for the convenience of heat dissipation to avoid moisture and lamblack.
3. The safety standard of the machine is Class II; upon installation, the power plug should be connected to 110-115V~/60Hz or 220-230V~/50Hz grid.
4. Do not remove the cover during using to prevent electrocution.
5. Do not frequently turn it on or off. Wait a few minutes before turning it on again.
6. When the equipment fails, contact with the product managers where you buy this machine for internal maintenance. To avoid accident, do not open the rear cover for inspection or repair.
7. The plugs, power lines, fuses, power switch, and transformer used on the equipment are all safety parts. Upon change of safety parts, the maintenance department should replace them in accordance with the model and specification specified by our company.



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