

AIYIMA[®] AUDIO

2.0-Channel Power Amplifier

USER MANUALS

Model: A07

Shenzhen Yima Technology Co.,Ltd

Website: www.aiyima.com

Telephone: 86-0755-28268551

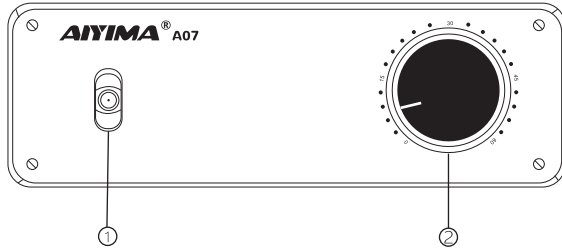
Location: 4F, Building 7 Hekan industrial park. Wuhe south road 41. Long-Gang district.

ShenZhen. CHINA. 518000

Email: sale@aiyima.com

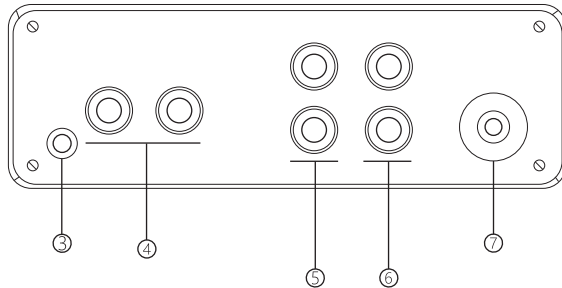
VK: <https://vk.com/aiyima>

Front panel introduction



- 1——Power switch (up to open)
2——Volume knob (counterclockwise decrease volume, clockwise increase volume)

Rear panel introduction



- 3——AUX output interface (3.5mm headphone interface)
4——Audio input interface (red for right channel, white for left channel)
5——Right channel output interface (red is +, black is -)
6——Left channel output interface (red is +, black is -)
7——Power input interface (DC power supply, maximum 48V)

Steps

- 1: Turn the volume knob counterclockwise to the minimum
- 2: Connect the speaker to the left and right channel output interfaces
- 3: Connect the audio source to the audio input via the RCA line
- 4: When multiple amplifiers need to be connected, connect the AUX output interface of the amplifier to the audio input of the next amplifier
- 5: Connect to dc power supply
- 6: Turn on the power switch.5mm headphone interface)

Parameter

POWER	300W+300W	VOLTAGE	24-48V
GAIN	21.5dB	RESPONSE	20HZ-20KHZ±3dB
THD+N	0.008%	SIZE	178*104*40mm
SNR	110dB	WEIGHT	0.55Kg

Note

Pay attention to before use:

- 1.Only DC power supply can be used.Ac transformer needs to be less than 48V after
- 2.Audio electronic products pay attention to the reasonable combination of use, so that it can achieve the greatest value and auditory experience.Please choose a reasonable power supply and passive speaker before use.The output power varies according to the speaker impedance.The best match is 1.2-1.5:1 (that is, the speaker power is 50w, and the amplifier power is 60W-75w)
- 3.Maximum power in power 48v, 4Q speakers, distortion of 10% when measuring the resulting power
- 4.please check it before using:When you receive the machine and find that the audio input and output interface knobs are relatively loose, Please tighten it manually by yourself.
- 5.Please use a good quality audio cable and power supply to avoid the distortion of the machine due to these.
- 6.We will provide good customer service and warranty service for our brand products. For any questions, please contact our customer service team: Sandy@aiyima.com

Note: AUX and RCA inputs cannot be connected to play at the same time, otherwise there will be crosstalk



3.5mm AUX Input RCA Input



3.5mm AUX Output

Passive Speaker Output

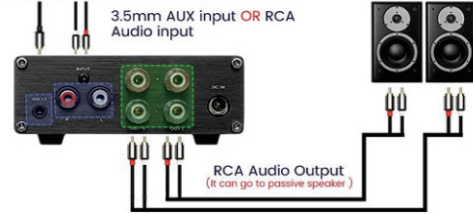


Corresponding diagram of A07 power supply output power

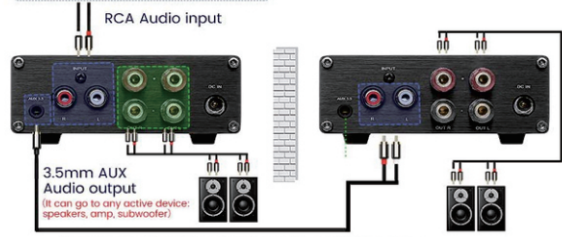
Supply power	Speaker impedance	Rate output power	Max output power
24V 5A	4	68W	71W
	8	55W	60W
32V 5A	4	78W	80W
	8	65W	70W
32V 10A	4	170W	177W
	8	100W	105W
36V 10A	4	190W	200W
	8	120W	125W
48V 7.5A	4	150W	180W
	8	120W	140W
48V 10A	4	250W	300W
	8	180W	190W



Work Scenario diagram 01



Work Scenario diagram 02



One audio signal can be shared in multiple rooms

NOTE: The Volume control only works with speaker terminals not with 3.5 mm AUX Audio output

Two input ways: 3.5mm AUX Audio input/ RCA Audio input (3.5mm interface is also Aux Audio output interface)

Frequently Asked Questions

Q: Why does the sound break or only one channel work?

Answer: When the speaker output power exceeds the normal power of amplifier, there will be a sound break. If the speaker power is less than the output power of the amplifier, there will be a large distortion. These can cause damage to components inside the amp .

Q: Why does only one channel have sound ?

Answer:

1. Check to ensure the output power of the amplifier matches the speakers.
2. Check that the positive and negative poles of the speaker do not contact each other. If they come into contact with each other, separate them and turn on again.
3. Check whether the positive and negative poles of the audio input line or audio input line of the amplifier are inverted. Fix and restart the amp.
4. Check whether the op amp chip inside is loose or detached when it is turned on. There may be loose components on the circuits, do not attempt to repair, contact us for support

Q: Why do passive speakers make a lot of electric noise?

Answer:

- 1.If you are not using the original factory standard power supply or low quality RCA cables, please replace the power supply and with higher quality RCA cables before testing. Many power supplies in the market have large interference coefficient, which will cause a lot of current sound.
- 2.If the positive and negative poles cable of the RCA output connecting the power amplifier and the speaker are close together, it will cause noise, and even only one channel will work.

Q: Why is there interference when playing music?

Answer: If you use unshielded cables, there will be interference signals entering the power amplifier. If you want to eliminate interference, you are advised to use the shielded signal cables or unplug them if not used.

Q: why does the audio volume of the A07 vary when using different audio sources (such as CD players, Computers and mobile phones)?

Answer:

- 1.The output range of audio source devices is different, the mobile phone is usually 0.35mV,and the CD is 1V. The signal output amplitude of the sound source will directly influence the volume
- 2.The CD quality of sound varies from disc to disc.Some older CDs do not have good audio recording from the 1980s with lower volume levels. The newer CDs have more dynamic range and the amp can pick that up. If you play an old CD may think the amp is no good. So test the amp with more recent CD discs.

Q: All cables are correctly connectd, but why is there no sound output?

Answer:

1. Check if the A07 POWER indicator is on;
When the indicator light is still not on after turning on the power, you can use a different power adapter to test again, this can determine if it is the amp or power supply causing the problem.
2. If the indicator light is on, check whether the VOL knob is in the minimum position. If so, turn clockwise to normal Volume
3. If both of the above are normal, check the input device if it is paused, mute, or the volume is in off position.

Q: Why does the amplifier stop working after a period of time?

Answer:

- 1.Normally in this case, the amplifier is overheat protected, and the output power may have exceeded the designed power specifications.
- 2.Check whether your speaker power matches our A07 power under this power supply. Excessive or low power can make the power amplifier malfunction.
The best match is 1.2-1.5:1 between the power amplifier and the speaker(that is, the speaker power is 50W, then the power amplifier power is 60W-75W)
To choose the right adapter look at your speaker specifications then use our table provided in the product description to see what adapter and speaker you need to match our A07.
Thanks!