

AIYIMA[®] AUDIO

2.1 Channel HIFI Amplifier

USER MANUALS

Model: A03

Shenzhen Yima Technology Co.,Ltd

Website: www.aiyima.com

Telephone: 86-0755-28268551

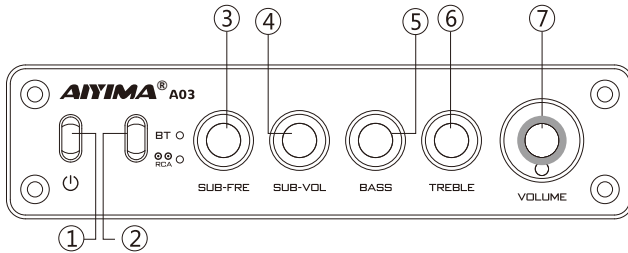
Location: 4F, Building 7 Hekan industrial park. Wuhe south road 41. Long-Gang district.

ShenZhen. CHINA. 518000

Email: sale@aiyima.com

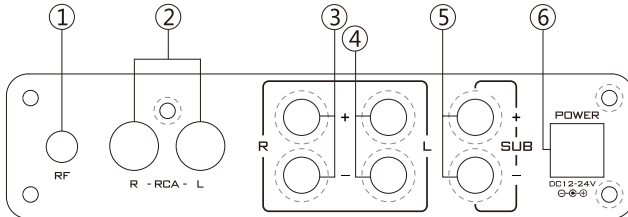
VK: <https://vk.com/aiyima>

Front panel introduction



- 1 ——— Power switch
- 2 ——— Audio input select UP : bluetooth mode
Down : line in mode
- 3 ——— Subwoofer frequency adjustment
- 4 ——— Subwoofer volume adjustment
- 5 ——— Bass adjustment
- 6 ——— Treble adjustment
- 7 ——— Total volume adjustment

Rear panel introduction



- 1 ——— Bluetooth antenna jack
- 2 ——— Line in (AUX) jacks
- 3 ——— Right speaker output
- 4 ——— Left speaker output
- 5 ——— Subwoofer output
- 6 ——— Power input (DC12-24V)

Specifications

Chips	TPA3116+NE5532+LTO72+QCC3003	Bluetooth version	5.0
Power input	DC12-24V (recommend DC19V 4.75A)	Current	>3A
Output Power	50Wx2+100W @4Ω 19V,10%THD+N	Speaker impedance	4~8Ω
Bass adjustment range	+12dB, -14dB	Treble adjustment range	±10dB
Subwoofer cutoff frequency adjustment range	40~240Hz	SNR	>82dB
Net weight	580g	Size	130x122×33mm

Q & A

1. Amplifier board has current sound and noise ?

Most of our amplifier board use DC power supply. The board itself does not produce current sound and noise.

The main causes of current acoustic noise are:

- A. The power supply filter used is not good; the current sound is caused by wrong input by the power or audio input.
- B. The input signal quality is poor; the output of the device connected to the input is improper, and the noise is caused by the abnormal input of the audio source.
- C. The input cable is of poor quality; the line is in poor connect; the wiring is damaged; the wiring is suspended.
- D. The input connection has other playback devices, and some devices share the power supply to cause noise.

2. No sound output, no sound in 1 channel?

- A. The speaker is broken, or the speaker cable is not connect well.
- B. The input cable is not in good connect; the wiring is damaged; the output of the device connected to the input is improper.

3. Volume broken and breaking sound when turn loud?

- A. The power input is insufficient, confirm the wiring is correct first, and the supply current is sufficient.
- B. The speaker itself has poor performance or damage, and the speaker power is too small or too large.
- C. left and right channel speakers (+)(-)output are independent, can not be connected to each other.

4. Speaker broken sound when subwoofer amplifier volume turn loud ?

- A. The power input is insufficient, first confirm the wiring is correct, the supply current is enough.
- B. Whether the power of the speaker itself is too large or too small, or the bass performance of the speaker itself is poor; the structure of the speaker box; these abnormalities will cause breaks.

5. The volume power is not enough?

Power and power supply voltage, the amplitude of the sound source signal, the size of the speaker impedance are all related, any kind of deficiency will affect the power.

6. Will the amplifier be burnt?

- A. The positive and negative poles of the power supply are connected reversely; the power supply voltage is too high, exceeding the limit operating voltage of the board.
- B. If the board requires a DC power supply, it is not allowed to connect directly the AC transformer power supply (this can be rectified and converted to DC power before it can be used).
- C. To confirm that the wiring is correct, then connect with the power supply. The wrong line connected or the short circuit both will cause damage to key parts!