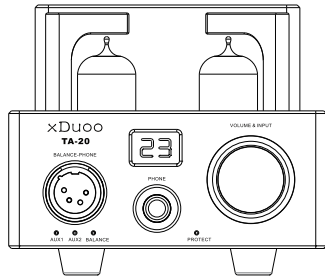


xDuoo®

Manual

Double tube stereo balanced desktop AMP

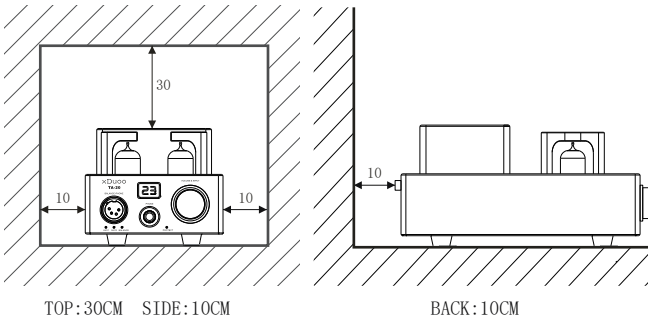


TA-20

Please read this Manual carefully before operating, and keep it for future reference

Safety Instructions

- The amp should not be subject to water droplets or water splashes, the machine should not be placed with such as vases a class or filled with liquid items.
- The amp is working, the tube will be very hot, please do not touch with hands directly.
- Do not disassemble the machine for repairing or modifying, this product does not have the parts or tools for the user to repair on their own, the maintenance of the machine requires qualified personnel to operate. Opening the shell or modifying the internal circuit will make the maintenance difficult, but also the performance or quality of the machine could be affected.
- Please place the unit in a well-ventilated, cool and dry, clean place, away from direct sunlight, heat, vibration, dusty, damp or cold place. To be well ventilated, the machine should leave at least the following distance between the wall.



TOP: 30CM SIDE: 10CM

BACK: 10CM

Operation Notes:

- Before turning on the power supply
Please check again that all connections are correct and if there are any problems with the cables.
- Using mobile phone
Using mobile phone near the amp may cause noise when playback. If this happens, move mobile phone away from the amp.
- Moving the amp
Disconnect the power cord and unplug the power cord from the power outlet. Before moving the unit, disconnect the cables of other system devices

Product Description:

TA-20 is a vacuum tube balanced high-fidelity small desktop headphone amplifier. Very rich of Input / output interfaces, there is one set of single-ended output port, and a group of balanced input, one set of balance output and one set of single-ended, equipped two 12AU7 tubes as a pre-amplification, and high quality transistor for the expansion, the structure of the tube and transistor combination, can provide delicate soft voice at the same time without losing the explosive power with the sense of speed, coupled with the provision of +/- 15V high-voltage power supply as a power source for the post-amplifier, can easily drive a variety of low resistance or high impedance headphones, and greatly enhance the sound stage dynamics, can be good for restoring the music scene.

As a balanced amp, the balance output is much better than ordinary output, its separation, resolution, sound field, background purity, all had been greatly improved, allowing you to enjoy the pure and perfect sound.

This product is suitable for people who have relatively high requirements for sound quality, suitable for home use or using in office, can be connected with a variety of high-end player sound sources to get high-quality sound quality, perfect reproduction of the sound field.

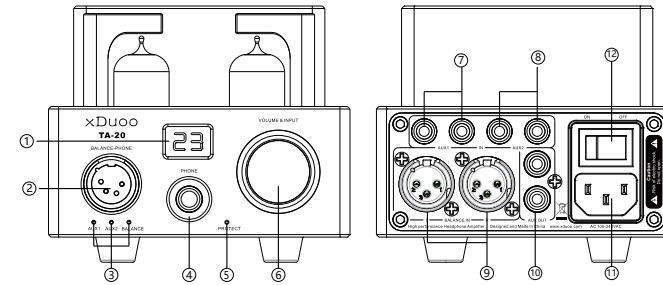
Product Features:

- Full-balanced input / output, greatly enhance the separation, resolution, sound field, background purity;
- Dual 12AU7 tube for audio processing, sound sweet and delicate;
- Using transistor for the expansion circuit, with a strong load capacity, can easily promote a variety of low-resistance headphones;
- Customized Metalized Polyester Capacitors as tube Output Coupling Capacitors;
- Japan ELNA SILMIC (II) capacitor for coupling capacitors, sound crystal, sweet;
- Use of Panasonic CE capacitor as the main filter capacitor, sound supple, warm and soft, high-frequency gorgeous;
- TI professional volume adjustment IC, to solve the carbon potentiometer channel imbalance problem in the small volume;
- Power input using adaptive mode, can enter AC100V ~ 240V voltage, do not need to manually adjust;
- Built-in over-voltage protection circuit to prevent the input voltage is too high and damage the machine;
- Built-in output relay protection, to avoid the impact of the switching on/off, but also protect the headphones and amp under special situations;
- Built-in DC / over current protection circuit, internal exception protection, after

troubleshooting, the amp can be restored by restart;

- High-strength aluminum alloy CNC processing shell, with excellent shielding characteristics.

Instructions:



1. Display: Displays the current volume;
2. 4-pin balance headphone jack, support 16 ~ 600 Ω headphones;
3. Input channel indicator, lights on when been chosen;
4. 6.35 headphone jack, support 16 ~ 600 Ω headphones;
5. Protection indicator, the amp is abnormal, will start the internal protection circuit, and the red light will flash;
6. Volume adjustment knob, short press the knob to switch the input channel, turn counterclockwise to reduce the volume, clockwise to increase the volume;
7. AUX1 unbalanced analog stereo input port, red for the right channel, white for the left channel;
8. AUX2 unbalanced analog stereo input port, red for the right channel, white for the left channel;
9. BALANCE : balanced analog stereo input port;
10. AUX analog stereo output port, the sound source is taken directly from AUX1 or AUX2;
11. AC power input port, input AC100 ~ 240V;
12. Power switch.

Parameters and Accessories:

Power supply: External power (AC100-240V)
 Output power PHONE: 2000mW (32 ohms); XLR: 2000mW (32 ohms)
 Frequency response: 10Hz ~ 100KHz (± 1dB)
 Gain: + 18dB
 Distortion: ≤ 0.1% (1KHz, 32 ohm load)
 Signal to noise ratio: 115dB
 Adaptable headphone impedance: 16 ~ 600Ω
 Size: 23 * 12 * 10.5cm
 Weight: 1.55Kg
 Accessories: Power cable * 1, Manual * 1, Warranty card * 1

Quick Start Description:

- On / Off
1. First connect the power cord and signal cable of the machine and press the power switch [POWER] on the panel to the [ON] position, the power indicator lights on, the tube needs to warm up for 40 seconds, before it turns into the normal working condition.

2. Turn the power switch [POWER] on the panel to the [OFF] position, now in the closed state. If you do not use the amp for a long time, please disconnect the power supply.

Selecting the source

1. Press the volume knob to select the input source channel, select the AUX1 / AUX2 input.

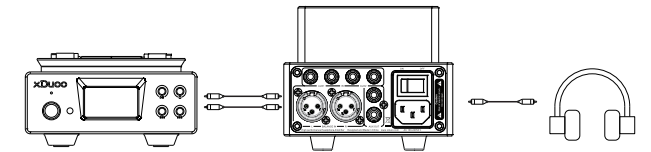
Headset volume control

1. Turn the [VOLUME] knob on the machine panel to adjust the volume of the headset, turn it clockwise to increase the volume, counterclockwise to reduce the volume level.

Connection:

Input wire connection

CD / DVD / MP3 player Line out / AUX OUT output interface directly connect with the audio cable to the machine's AUX1 IN / AUX2 IN interface, landscaping and amplification the front-end sound source to drive the headset, get good listening sense.



Common Issue:

Phenomenon	Cause	Solution
No power and the screen won't display	Power plug isn't plugged right	Plug it in again
	Power switch isn't switched right	Restart
No sound from the headset	Audio cable isn't connected right	Check and re-connect
	Audio source setting issue	Check the setting of front-end audio device
	Tube isn't plugged right	Plug it in again
	Volume too low	Tune to normal level
	Chose wrong input tunnel	Switch the input tunnel

The failures above or other failures happened, and cannot be troubleshooting with the method above, please contact with the local dealer, and send with the warranty card to the dealer for maintenance, do not disassemble the machine for unauthorized repair.

Warranty Information:

The company's products can have 12 months of free warranty service from the date of sale, if the product not in 12 months warranty period anymore, the company will have to charge for the parts and other cost for repairing. Accessories are not covered under warranty.