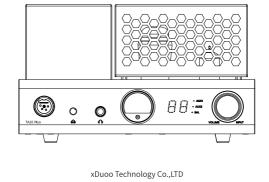


High Performance Balanced Tube Headphone Amplifier

TA20 Plus User Manual

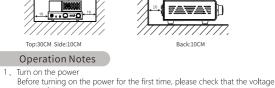


Safety Instructions

filled with liquid on the machine

filled with liquid on the machine. The amp is working, the tube will be very hot, please do not touch with your hands. Please do not open the amp for maintenance or modification by yourself Opening the machine and arbitrarily modifying the internal circuit will make it difficult for maintenance personnel to repair the amp, and will affect the performance of the amp. Please place this unit in a well-ventilated place, avoid direct sunlight, and the machine should leave at least the following clearances.

Please do not sprinkle water on the amp, please do not place vases or items



- setting of the amp is correct.

 Using mobile phone

 Using mobile phone near the amp may cause noise when playback, please move mobile phone away from the amp.

 Move the machine

 Please disconnect the power cables before moving the machine. Product introduction
- TA20 Plus is a desktop balanced tube headphone amplifier. It has rich input and output interfaces, with two RCA and one XLR balanced input, has 6.35mm unbalanced, 4.4mm balanced and 4-pin balanced headphone output, suitable fo many kinds of headphone plugs. The pre-stage of the amp uses two 12AU7 tube: has 6.35mm tput, suitable for

as signal amplification, and the post-stage uses high-quality transistors as class A buffer, so the "Tube + transistors" structure can make the voice of singer show delicate and soft, but also retain the explosive power and sense of speed of the musical instrument, and it's strong output power can easily drive many kinds of headphones. The power supply circuit of this unit adopts tube for rectifier, which makes the sound more "tube" sense. From input to output using fully balanced circuit, its crosstalk, resolution and SNR have been greatly improved, so that you enjoy an unparalleled literator pression.

Product introduction

refined. 4.

circuit, its crosstank, resolution and sink nave been greatly improved, so that you enjoy an unparalleled listening sensation.

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.

It is a fully balanced circuit from input to output, which greatly improves the Crosstalk, resolution, sound field and SNR.

Adopt 5Z4P tube for rectification, make the sound more "tube" sense.

Using double 12AU7 tube to amplify audio signal, make the sound sweet and

Adopt transistors for class A buffer, so it can easily drive many kind headphones

with strong output power. Adopt the metal polyester film capacitor customized by xduoo as the coupling 5, capacitance of tube output.

Adopt the special enthusiast Japanese ELNA SILMIC(II) capacitance as the 6,

- Adopt the special entrusias spanies extended in the coupling capacitance, have transparent and sweet sound.

 Adopt the special enthusiast Japanese NICHICON FW(M)capacitance as the main filter capacitance, have smooth and warm sound, and splendid high frequency.

 It is used digital volume adjustment chips to solve the problem of unbalanced left and right channels at low volume.

 It built-in mute circuit when turn on amplifier to avoid POP noise and make sure that their inverted at its host condition.
- 10. Adopts the high-quality E type transformer with low noise and low leakage flux specially for audio amplifiers.

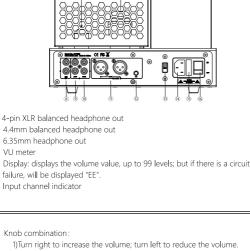
 11. Use aluminum shielded case to prevent external interference noise.

- Parts and Controls
- 88:

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4, VU meter

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- 2) Short press to select input channels: AUX1 IN, AUX2 IN, BALANCE IN AUX OUT analog audio output from tube 8. AUX1 IN: Analog signal input
- 10、AUX2 IN: Analog signal input 11, XLR Balance in 12、 4.4mm Balance in
- Fuse holder Built-in 2 fuses, one of which is spare, the specification is 250V/2A 16 、Power switch Rectifier tube 17 18. Amplifying tube

Parameters

① Output Power:

Size: 26x17.7x15.3cm

Weight: 4.3KG

to the end.

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13、AC switch(110V or 220V). 14、AC IN

Power Source: AC 110V(100-120V)/220V(220-240V) Gain: +18dB

6.35mm Headphone Output Parameters:

 $2000 mW(32\Omega load)$

② Frequency Response:

©THD+N:0.05%

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③ Crosstalk:74dB ④ SNR:113 dB ⑤ THD+N:0.05%

10Hz~80kHz(±0.5dB) 4.4mm/XLR balanced Headphone Output Parameters: 4. ① Output Power: 2600mW(32Ω load)
 ② Frequency Response:
 10Hz~80kHz(±0.5dB)
 ③ Crosstalk:95dB
 ④SNR:113 dB
 ⑤THD+ ① Output Power: 2600mW(32Ω load)

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About Replace the Tubes

1.Turn off the power and wait for the amp and the tube to cool. Take off the tube cage: lift it up with slight force;

tube, the replacement steps are as follows:

This amp can be replaced the same model or the same parameters of the

3.Unplug the tubes: pull it up directly, and if it's too tight, shake it slightly from

show normal volume, if so, connect the headphones to listen to the sound properly; if the "EE" number is displayed, turn off the power immediately and

6.Install the tube cage: aim the feet of the cage at the hole, and then insert it

Suitable Headphone Impedance: 16Ω \$\sigma 600Ω\$

left to right and then pull it out. 4.Replace the new tube: aim the tube pin at the hole tube socket, insert the tube firmly into the bottom, and make sure that all pins are inserted into the hole 5. Power on confirmation: turn on the power and wait for the display screen to

reconfirm whether the tube is installed correctly.

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Connecting to the Audio Device 1.Set this unit as AUX input, use audio cable to connect your player or DAC's AUX output, playing music, connect headphone and enjoy it.



Accessories

Note: Do not tie the audio cable together with the power cable to avoid noise.

Warranty Card 6.35 to 3.5 converter Warranty Information

costdepend on the product fault conditions. Accessories are not covered underwarranty.

Fmail:service@xduoo.com

Our products can enjoy 12-month free warranty services from the date of thesale, if the warranty period is expired, our company will charge parts

xDuoo Technology Co.,LTD Address:Romm F1510,MingYueHuaDu Building,GongHe Industrial-Road,XiXiang Town,Bao'an District,ShenZhen,China Phone:+86-0755-297799189 Post code:518000

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• · **Q** 88 € **Q** 2.Set this unit as BALANCE input, use balanced audio cable to connect your player or DAC's Balanced output, playing music, connect headphone and enjoy it. to other HI-FI amplifier or Active speakers.

AC Cable User's Manual