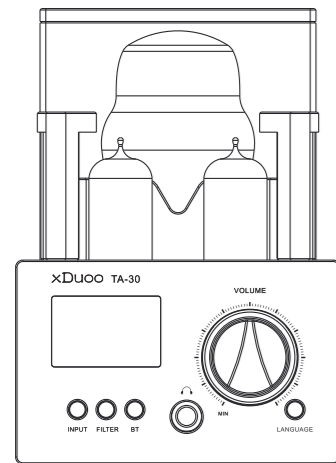


High Performance DAC&Tube Headphone AMP

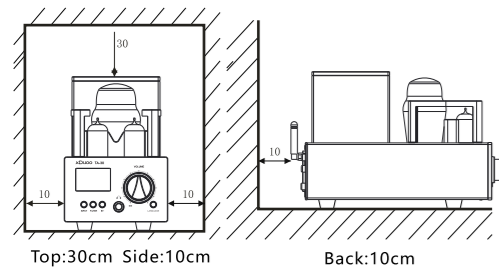


TA-30

Welcome to buy the TA-30. We would like to express our sincere thanks to you by this opportunity. We strongly advise you to read this instruction carefully before operation and pay attention to keep it in order to have a reference at any time.

Safety Directions

1. This machine should not be exposed to water drops or splashes. The objects which are full of liquid such as vases are forbidden to be put on the machine.
2. If you use the power plug and appliance coupler as a disconnection device, the disconnect device should be easy to operate.
3. Do not open the machine for repair or reconstruction by yourself. This product does not provide the parts which can be repaired by the users. Qualified professional personnels are required to operate the maintenance of this machine. It will be difficult for the maintenance personnels to repair the machine if you open the machine and change the internal circuit optionally. What's worse, it will affect the performance and the quality of this machine.
4. The machine should be installed in place where is drafty, cool, dry and clean. The place should also be far away form direct sunlight, heat source, vibration, dust, moist and chill. In order to be drafty, the machine should be set aside the following distance gap at least:



Operation Cautions

1. Please check whether all the connections are correct and whether there are problems in connecting cable before turning on the power switch.
2. The use of mobile phones
Using mobile phones near by the machine may cause noises. If this happens, please use mobile phones far away from the machine.
3. Move the machine
Please turn off the power and unplug the power line from the power socket. Please disconnect the connecting cables of other equipment before moving the machine.

Introduction

The TA-30 is a desktop DAC & headphone amplifier which contains high performance USB, optical, coaxial audio decoding and tube for audio processing, USB audio decoder using the XMOS's XU208 chip, support up to PCM 32bit / 768khz and DSD512. It adopts AKM's AK4118 for SPDIF signal input, can support up to 24Bit /192KHz and DSD64 coaxial/optical signal. It adopts Qualcomm's CSR8675 for bluetooth input, can support aptX, aptX_LL, aptX_HD, LDAC and so on. It adopts 5Z3P tube for rectifiers, and adopts 12AU7 tube for pre- amp with warm timbre, the post-amp is adopted OP+ transistors for class A buffer, built-in +/-22V for OCL circuit, so that it has not only soft nature sound but also not lose sense of speed.

This product is suitable for connecting with different audio source, such as PC, mobile phone, and other types of playback equipment. It can improve the sound quality of the original playback equipment effectively, and it also can drive a variety of high-end headphones, so that you can enjoy more real, more shocking music!

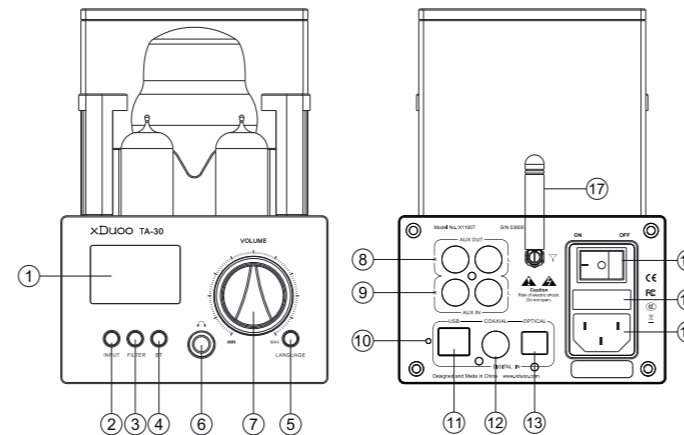
Features

- Support USB audio decoding functions, work in asynchronous transfer mode, support up to 32Bit/768KHz PCM signal; support up to DSD512 signal, work in DOP or NATIVE mode.
- Support coaxial/optical audio decoding, support up to 24bit / 192Khz PCM and DSD64 signal
- Using USB OTG cable connection, support IOS, Android system's phones and music players' USB audio decoding, support up to 24Bit/192KHz PCM signal, DSD128 signal.
- Support bluetooth audio decoding, support SBC, AAC, aptX, aptX_LL, aptX_HD, LDAC format.
- DAC chip uses ESS's new ES9038Q2M chip to support native DSD, DXD and PCM signals.
- Adopts two active Low Phase Noise Crystal Oscillators, individually control multiple of 44.1KHz, multiple of 48KHz and USB signal transmission.
- Adopts 5Z3P tube for rectifiers.
- It Built-in tube for pre-amp, transistors for class A buffer. it has not only soft nature sound but also not lose sense of speed.
- Built-in +/-22V for OCL(output capacitor-less) circuit.
- Adopts ELNA SILMIC(I), NICHICON, and Customized Metalized Polyester Capacitors.
- Adopts the high-quality E type transformer with low noise and low leakage flux specially for transistor amplifiers.
- It built-in overvoltage/ overcurrent protection, so that it can be prevented damage to the amplifier if the input voltage/current exceeds the limit value.
- It built-in mute circuit when turn on amplifier to avoid POP noise and make sure the tube is worked at its best condition.

Parts and Controls

- 1、 Screen
- 2、 INPUT Select: short press to choose USB/Coaxial/Optical/Bluetooth/AUX input.
- 3、 Filter Settings
- 4、 Bluetooth Pairing Button : press 3 seconds to enter the pairing mode.
- 5、 Language setting: Select to Chinese or English.
- 6、 6.5mm headphone jack: Applies to 16-600Ω headphones.
- 7、 Volume knob : turn right to increase the volume; turn left to reduce the volume.
- 8、 AUX OUT: audio out from decoder when USB/SPDIF/Bluetooth in.
- 9、 AUX IN
- 10、 Link LED: When USB connected, LINK Light turns on.
- 11、 USB IN
- 12、 COAXIAL IN
- 13、 OPTICAL IN
- 14、 POWER ON/OFF
- 15、 FUSE HOLDER: built in 2pcs (one is spare).

- 16、 AC IN
- 17、 Bluetooth Antenna port: take the Bluetooth antenna out from accessory box, Install and tighten nut.



Bluetooth Instructions

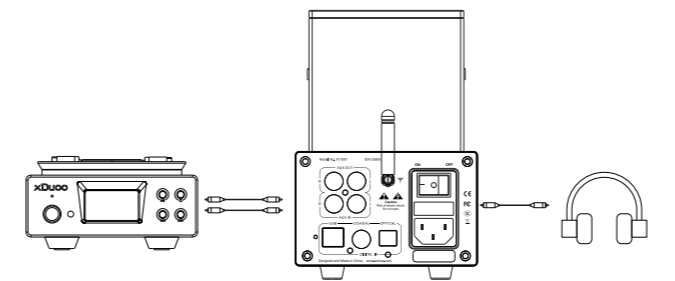
1. The upper left corner of the display screen shows the input mode "Bluetooth", the upper right corner shows the Bluetooth symbol (not connected) (connected), and the middle of the screen shows the Bluetooth connection status and Bluetooth output format.
2. The stable transmission range of Bluetooth is about 10 meters. Please connect Bluetooth devices within the effective distance.
3. When select to Bluetooth mode, Bluetooth is in a paired state and can be connected directly with the device.
4. When Bluetooth is connected and other devices can not find the local machine, it can cut off the currently connected devices by pressing the BT pairing button for 3 seconds and re-enter the matching state.
5. Automatically display Bluetooth format when playing songs in Bluetooth mode (mobile devices can choose the Bluetooth format supported by the local machine in the developer's options).
6. Return function: When the equipment connected to this unit is not connected within the range of the antenna, it can be connected within 10 minutes. It has return function.

Parameters and Accessories

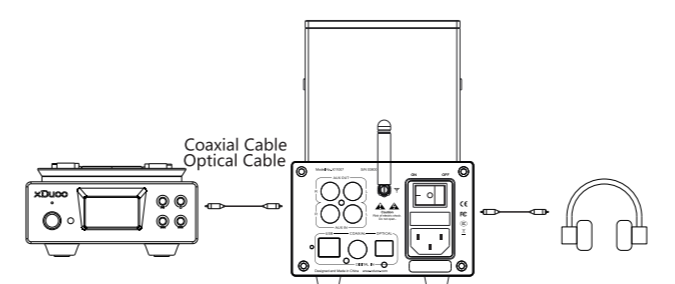
Power Source : AC220V/110V
 Screen: 1.3 inch OLED screen
 Compliant OS : Win7, Win8, Win10, Mac OS X, IOS, Android system
 Output Power: 3000mW (32Ω load)
 Frequency Response : USB/OPT/COA/Bluetooth: 20Hz~20kHz(±0.5dB)
 AMP: 10 Hz~100kHz(±0.5dB)
 Sampling Rate Support :
 USB PCM : 16-32bit/44.1k-768kHz
 DXD : 24-32 bit/352.8K-384kHz
 DSD : DSD64-512
 COA/OPT PCM : 16-24bit/44.1k-192kHz
 DSD : DSD64(DOP)
 Bluetooth support formats : SBC , AAC , aptX , aptX_HD , aptX_LL , LDAC.
 Gain : +16dB
 THD+N : 0.5%@1kHz
 S/N : 110dB
 CROSSTALK : ≥65dB
 Size : 290x113x170mm
 Weight : 3.0KG
 Accessories : Power Cable*1, Bluetooth Antenna*1, Manual*1, Warranty Card*1, Tube Protection Bracket*2.

Connecting to the Audio Device

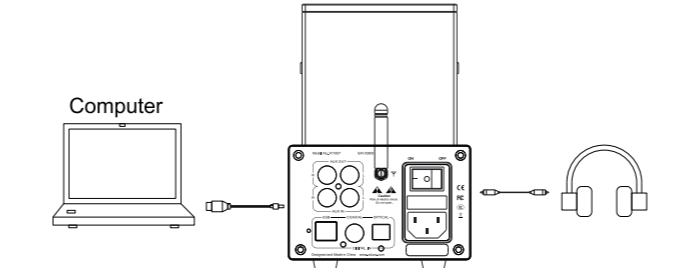
- 1、 Use RCA audio cable, connect with the Line out audio output device. Note to press INPUT key to AUX IN



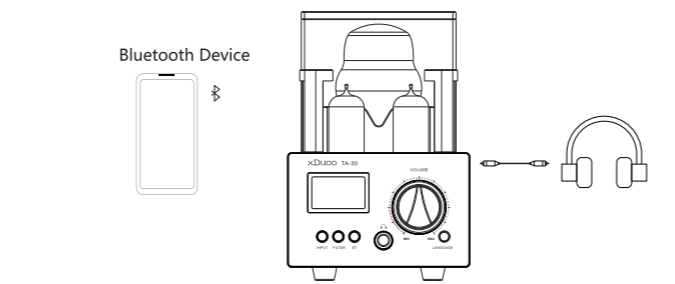
- 2、 Use the Coaxial/Optical cable, connect with a Coaxial audio output device. Note to press INPUT key to Coaxial/Optical in .



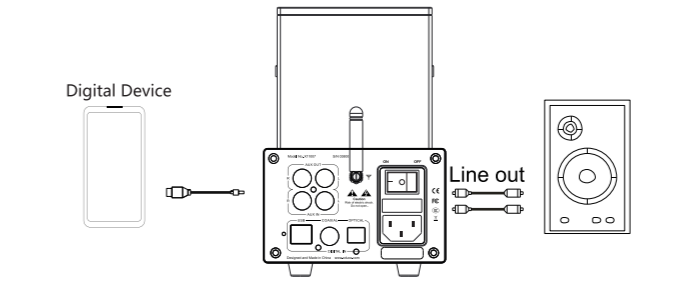
- 3、 Use the supplied USB line, and connect to Apple/Windows/Linux computer. Note to press INPUT key to USB IN.



- 4 . Connect to the bluetooth device, Note to press INPUT key to BLUETOOTH IN.



5. Take it as a digital sound card to use, it can supply high quality sound source to other HI-FI amplifier from line out port.



Notes: in case of hums, please do not tie the audio line with the power line together.

Install USB Driver

- 1, When this unit is connected to the computer, the driver is required to be installed. (No need if your system is MAC.)
- 2, you can downloaded the Driver from the official website, link: (<http://www.xduoo.com/xduoo/EnDownload.asp>), choose XDUOO USB Drive, guiding is inside the package.
- 3, When using the device to play a high resolution audio files on the computer, we recommend using Jriver or Foobar2000 player.

Troubleshooting

If you run into any problems using this unit, use the following checklist and read the product support information on user's manual. Should any problem persist, consult your nearest xDuo dealer or consult us.

The unit does not turn on.

- Check that the power plug is plugged right.
- Check that the fuse is good.

No sound

- Turn up the volume of connected device or the unit.
- Check that the audio cable is good.
- Check that the unit and the audio device are connected correctly.
- Check that the connected device is turn on.
- Check that the output device of player is setting to this unit
- When connected to a computer, there is no sound or sound is not played back properly, check the device setting of you computer are correct.

Failed to install USB driver for windows

- Check that the unit is connected to computer.

Failed to connect to computer

- Check that the USB driver is successfully installed.

Warranty Information

Our products enjoy the free warranty service for 12 months since the date of sale. If it is over the warranty period, the company will ask for cost fees according to the condition of product failures. Accessories are not included in the warranty scope.

Shenzhen xDuo Technology Co., Ltd
 Website : www.xduoo.com
 Tel : +86-075529799189
 E-mail : service@xduoo.com
 ADD : Room F1510, MingYueHuaDu Building, GongHe Industrial Road, XiXiang Town, Bao'an District, ShenZhen, China.