

# XD05 PLUS2 快速入门指南 Quick Start Guide



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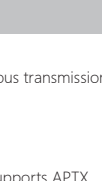
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## Introduction

XD05 Plus2 is a portable high-fidelity DAC & headphone amplifier, which integrates USB, coaxial, optical, Bluetooth decoding and amplifier. USB supports up to PCM 32Bit/384kHz, MQA Render and DSD256; coaxial, optical supports up to 24 Bit/192kHz and DSD64; Bluetooth supports APTX, APTX\_LL, APTX\_HD, LDAC and other high-definition formats, so that make wireless audio become HiFi.

The DAC chip uses AKM's AK4493SEQ, which have extremely low noise and higher resolution, which greatly improves the quality of sound. The amp circuit adopts the OP+BUF architecture, the output power reaches 1200mW, and the power is strong, which can easily drive many kinds of headphones.

It has EQ, Turbo, DAC filter setting, and Damping setting functions, add a lot of adjustment fun. This product is suitable for connecting PCs, mobile phones, tablets, HiFi players and other devices that can play audio to obtain high-quality audio output and feel the atmosphere of a live concert.

## Features

1. With an OLED display, real time display digital information flow
2. The USB receiving chip adopts XMOS's XU208, working in asynchronous transmission mode, supports up to PCM32 Bit/384 kHz, MQA Render and DSD256..
3. With dual USB system working mode, adapt to more audio devices.
4. Coaxial/optical supports up to PCM 24Bit/192kHz, DSD64 (DOP).
5. Bluetooth chip uses Qualcomm's QCC5125, supports Bluetooth 5.1, supports APTX, APTX\_LL, APTX\_HD, LDAC formats.
6. DAC chip uses AKM's new AK4493SEQ, with better decoding performance, extremely low noise and higher resolution.
7. Adopts two active Low Phase Noise Crystal Oscillators, work with CPLD, reduced Jitter to undetectable level.
8. Built-in filter circuit and high-efficiency power conversion circuit, optimize the power supply design through the LDO circuit, and separately supply power to the decoder chip, LPF, amplifier, XMOS, and digital receiver chip.
9. The amp circuit adopts the OP+BUF architecture, the output power reaches 1200mW, and the power is strong, which can easily promote many kinds of headphones.
10. The amp chip can be replaceable by yourself, different chips bring different sound quality.

11. It has Turbo and Damping setting function, adapt to different impedance headphones.
12. It has EQ adjustment, POP, MOVIE, GAME and TONE(custom adjustments) modes, increase playability.
13. Support fast charging, when charging, this unit is automatically switched to an external power supply.
14. It is used digital volume adjustment chips to solve the problem of unbalanced left and right channels at low volume.

## Parameter

Power Source: built-in 3.8V/5000mAh lithium polymer battery

Screen: 0.91 inch OLED screen

Compliant OS: Windows, Linux, Mac OS X, IOS, Android system

Frequency Response:

AMP:10Hz~80kHz (±0.5dB)

USB/SPDIF: 20Hz~20KHz (±0.5dB)

Sampling Rate Support:

USB PCM:16-32Bit/44.1K-384KHz

DXD:24-32Bit/352.8K-384KHz

DSD: DOP/NATIVE mode, DSD64-256

MQA: Render

OPT/COAX PCM:16-24Bit/44.1K-192kHz, DSD: DSD64(DOP)

Bluetooth Formats: AAC, SBC, APTX, APTX\_LL, APTX\_HD, LDAC

Gain: +0/3/6dB

Headphone output Parameters:

Output power: 1200mW (32Ω load)

THD+N: 0.0015%@1kHz

S/N: 121dB

Crosstalk: ≥76dB

AUX OUT Parameters:

Output level: 2.0Vrms

THD+N: 0.0009%@1kHz

S/N: 122dB

Crosstalk: ≥109dB

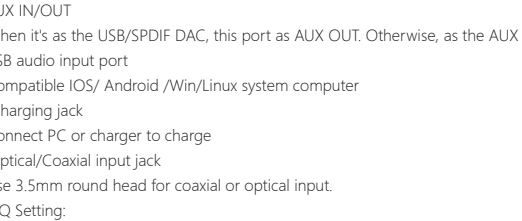
Battery life: ≥9H (USB IN), ≥15H (SPDIF IN), ≥18H (BT IN)

Charging time: 3H (Quick charge), 6H (slow charge)

Size: 13.0X7.5X2.2cm

Weight: 0.29kg

## Parts and Controls



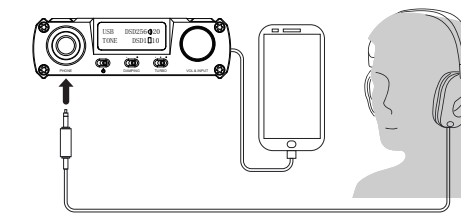
1. 6.35mm headphone jack  
Applies to 16-300Ω headphones.
2. Power on/off.
3. DAMPING (output impedance) switch. Switch to the left: low impedance; right: high impedance.
4. Turbo switch, the output power of the left to right gear is as follows: 500mW, 1000mW, 1200mW.
5. Knob (Multi-function).

- a. Turn the volume up clockwise; rotate the volume decrease counterclockwise.
- b. Short press to change input channel: Bluetooth, AUX, Coaxial, Optical and USB in.
- c. Long press to lock all key, long press again to unlock all key.

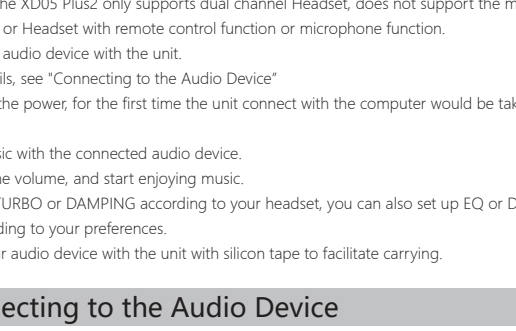
- d. Short press to return to the main window when in setting window.
6. Screen
7. Select UAC mode (USB system) :
  - a. After switching the UAC mode, the device needs to be restarted.
  - b. Choose UAC1.0, which is compatible with some low-version computer systems or game console systems (such as SWITCH, PS series).
  - c. Choose UAC 2.0, support high sampling rate audio format, support Windows, MAC, IOS, Android, LINUX and other systems. (See the Note1)
8. AUX IN/OUT  
When it's as the USB/SPDIF DAC, this port as AUX OUT. Otherwise, as the AUX IN.
9. USB audio input port  
Compatible IOS/ Android /Win/Linux system computer
10. Charging jack  
Connect PC or charger to charge
11. Optical/Coaxial input jack  
Use 3.5mm round head for coaxial or optical input.
12. EQ Setting:
  - a. short press to select the EQ, there are NONE(off), POP, MOVIE, GAME, TONE(custom adjustment).When select to TONE, long press EQ key to enter the settings window.  
In the TONE settings window, short press the EQ key to select BASS or TREBLE, then rotate the knob to increase or attenuate the value, from-10dB to + 10dB.  
After complete, you can wait 2 seconds to let it automatically exit, or press the Knob to exit.
13. DAC's Filter setting:
  - a. short press to select the DAC:  
DSD filter: Low Cut-off (DSD1); High Cut-off (DSD2);  
PCM filter: Sharp roll-off (PCM1); Slow roll-off (PCM2); Short delay Sharp roll-off (PCM3); Short delay Slow roll-off (PCM4); Super Slow roll-off (PCM5); Low dispersion Short delay (PCM6).
  - b. Long press to turn on/off the backlight of Knob.
14. Pairing&play (bluetooth) button: long press for 3 seconds to force into pairing state.  
Short press to Play/pause; double press to play next song, three press to play previous song.

\*Note1:  
1) In UAC 2.0 mode, Win7 and Win8 need to install the official USB driver; Win10, 11 systems can be plug and play, but if you need to play native DSD music format, you still need to install the USB driver; Apple MAC system No need to install USB driver; IOS, Android and other smart settings do not need to install driver, but need to install some HiFi professional playback APP to achieve high sampling rate decoding.  
2) You can download the USB driver from xduoo official website download center, the firmware name is "USB driver V\*\*\*" (driver version is updated from time to time).

## Screen Information



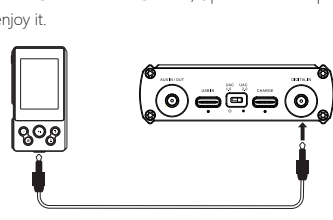
## Listening to Music



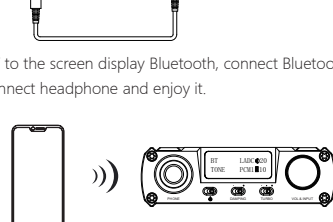
1. Connect headphone to the unit.  
\*Note: The XD05 Plus2 only supports dual channel Headset, does not support the mono Headset or Headset with remote control function or microphone function.
2. Connect audio device with the unit.  
For details, see "Connecting to the Audio Device"
3. Turn on the power, for the first time the unit connect with the computer would be taking some time.
4. Play music to the connected audio device.
5. Adjust the volume, and start enjoying music.
6. Set the TURBO or DAMPING according to your headset, you can also set up EQ or DAC filter according to your preferences.
7. Bind your audio device with the unit with silicon tape to facilitate carrying.

## Connecting to the Audio Device

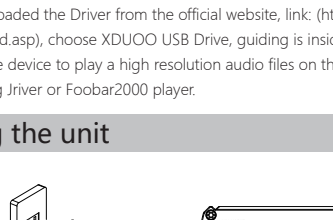
1. Pressing INPUT to the screen display USB IN, use the USB cable to connect to an Apple/windows/Linux system computer, connect headphone, playing music on computer and enjoy it. (Need to set this unit as an audio output device on the computer)



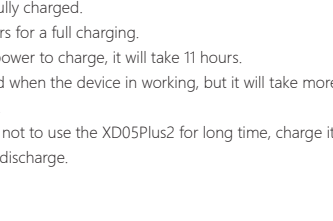
2. Pressing INPUT to the screen display USB IN, use the USB OTG cable to connect to USB audio out of an IOS/ Android phone, pad or HiFi player, connect headphone, then playing music, and enjoy it. (pay attention to pressing INPUT to the screen display USB IN).



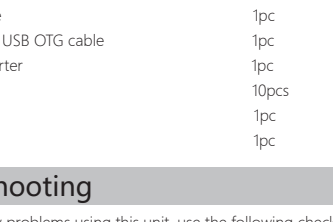
3. Pressing INPUT to the screen display COAXIAL/OPTICAL, use Coaxial/Optical cable to connect with player or CD which with Coaxial /Optical audio output, playing music, connect headphone and enjoy it.



4. Pressing INPUT to the screen display AUX, use audio cable to connect with player or CD which with AUX/Line output, playing music, connect headphone and enjoy it.



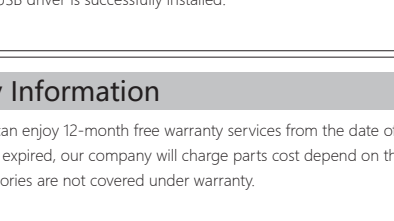
5. Pressing INPUT to the screen display Bluetooth, connect Bluetooth to phone or computer, playing music, connect headphone and enjoy it.



## 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 download the Driver from the official website, link: (<http://www.xduoo.com/x-duoo/EnDownload.asp>), choose XD000 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.

## Charging the unit



1. Charger specifications: mobile phone fast charger, or an adapter with output 5V/1A (or more current).
2. The red light flashes when slow charging, the green light flashes when fast charging, and will always on when fully charged.
3. About 3-6 Hours for a full charging.
4. If use PC USB power to charge, it will take 11 hours.
5. Can be charged when the device in working, but it will take more time. Advice you charge it after turning it off.
6. If you planning not to use the XD05Plus2 for long time, charge it every half year to avoid excessive battery discharge.

## Package List

XD05 PLUS2	1pc
Type-C USB Cable	1pc
Type-C to Type-C USB OTG cable	1pc
6.35 to 3.5 Converter	1pc
Rubber Feet	10pcs
User Manual	1pc
Warranty Card	1pc

## 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.**

→Charge the battery of the unit.

→When battery life reduces to half, the battery is approaching the end of its service life.

Consult your nearest xDuo dealer for replacement.

**The battery cannot be charged**

→Check that the charge switch of unit is turned on.

→Check that the unit and your computer are firmly connected using the USB cable.

→Check that the computer is turned on and not in standby or sleep mode.

→A USB AC adaptor that is not recommended is being used

→The battery is fully charged.

**No sound**

→Turn up the volume of connected device or the unit.

→Check that the unit and the audio device are connected correctly.

→Check that the connected device is turn on.

→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 can enjoy 12-month free warranty services from the date of the sale, if the warranty period is expired, our company will charge parts cost depend on the product fault conditions. Accessories are not covered under warranty.

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