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› AIYIMA D07 Mini Desktop DAC with AK4493SEQ and XMOS XU316 USB Processor User Manual

AIYIMA D07

AIYIMA D07 Mini Desktop DAC User Manual

Model: D07

1. INTRODUCTION

The AIYIMA D07 is a compact desktop Hi-Fi Digital-to-Analog Converter (DAC) designed to deliver high-resolution audio performance. It incorporates a classic AK4493SEQ decoder, an interchangeable NE5532P operational amplifier, and an XMOS XU316 main control chip. This device supports ultra-high-resolution audio streaming up to 768 kHz/32 bit and DSD512, ensuring a pure, refined, and rich listening experience. Its comprehensive connectivity and versatile operating modes make it suitable for various audio setups.

Pure DAC

Decodificatore Pure, dedicato alla massima fedeltà audio



Figure 1: AIYIMA D07 Mini Desktop DAC, highlighting its 'Pure DAC' design for maximum audio fidelity.

2. SETUP GUIDE

Follow these steps to set up your AIYIMA D07 DAC:

- 1. Power Connection:** Connect the provided USB-C cable to the **DC 5V USB IN** port on the rear panel of the D07. Connect the other end of the USB-C cable to a suitable 5V USB power source (e.g., a computer USB port, a USB wall adapter, or a powered USB hub).
- 2. Input Connection:**
 - For USB audio from a computer, smartphone, or game console (PS5/Switch), connect a USB cable to the **USB IN** port on the rear panel.
 - For optical audio, connect an optical cable to the **OPT IN** port on the rear panel.
 - For coaxial audio, connect a coaxial cable to the **COAX IN** port on the rear panel.
- 3. Output Connection:** Connect your amplifier, active speakers, or headphone amplifier to the **RCA OUTPUTS (CH1 and CH2)** on the rear panel using RCA cables.

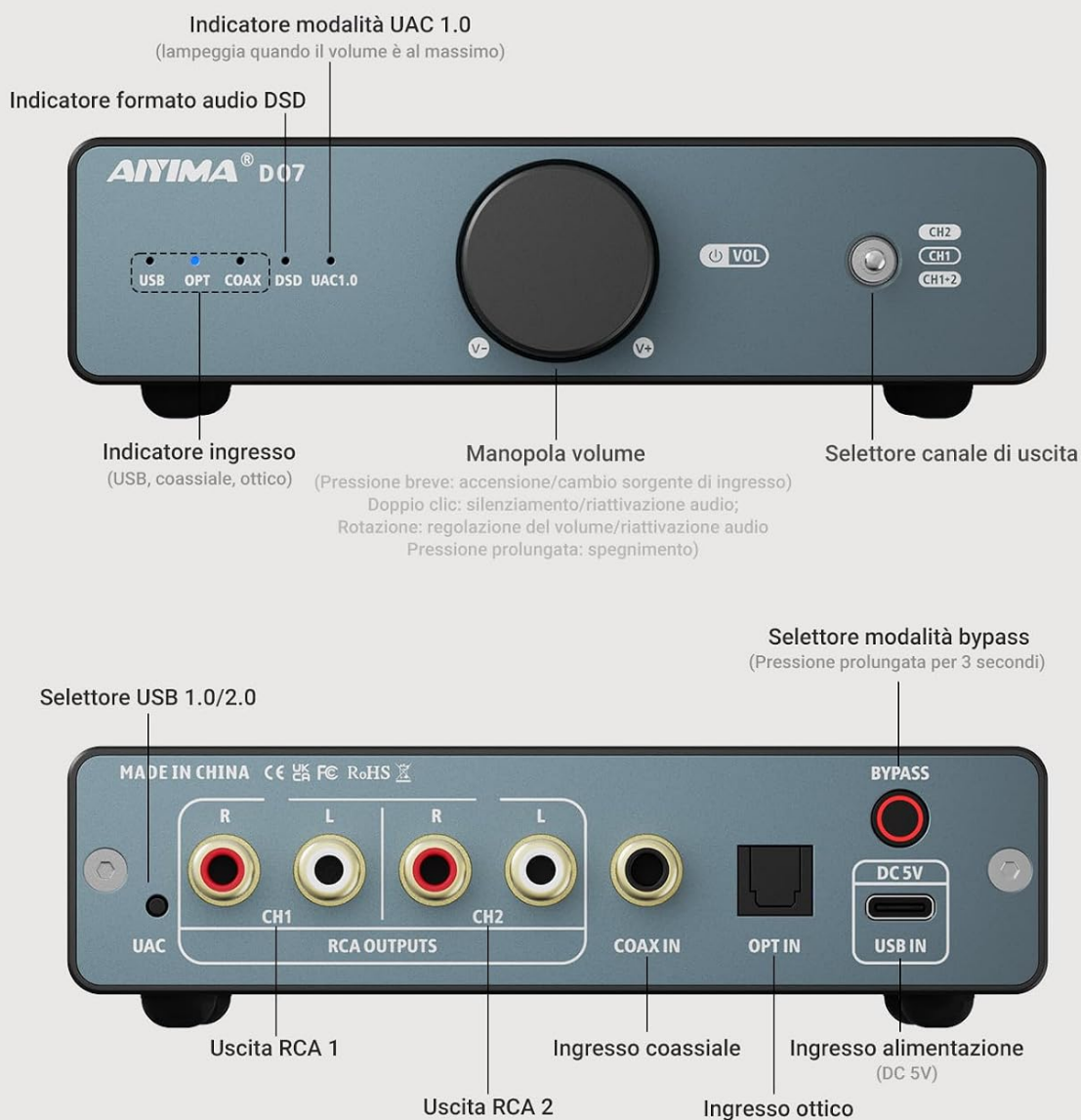


Figure 2: Front and Rear Panel Overview with Connection Points.

Guida completa all'integrazione dei dispositivi

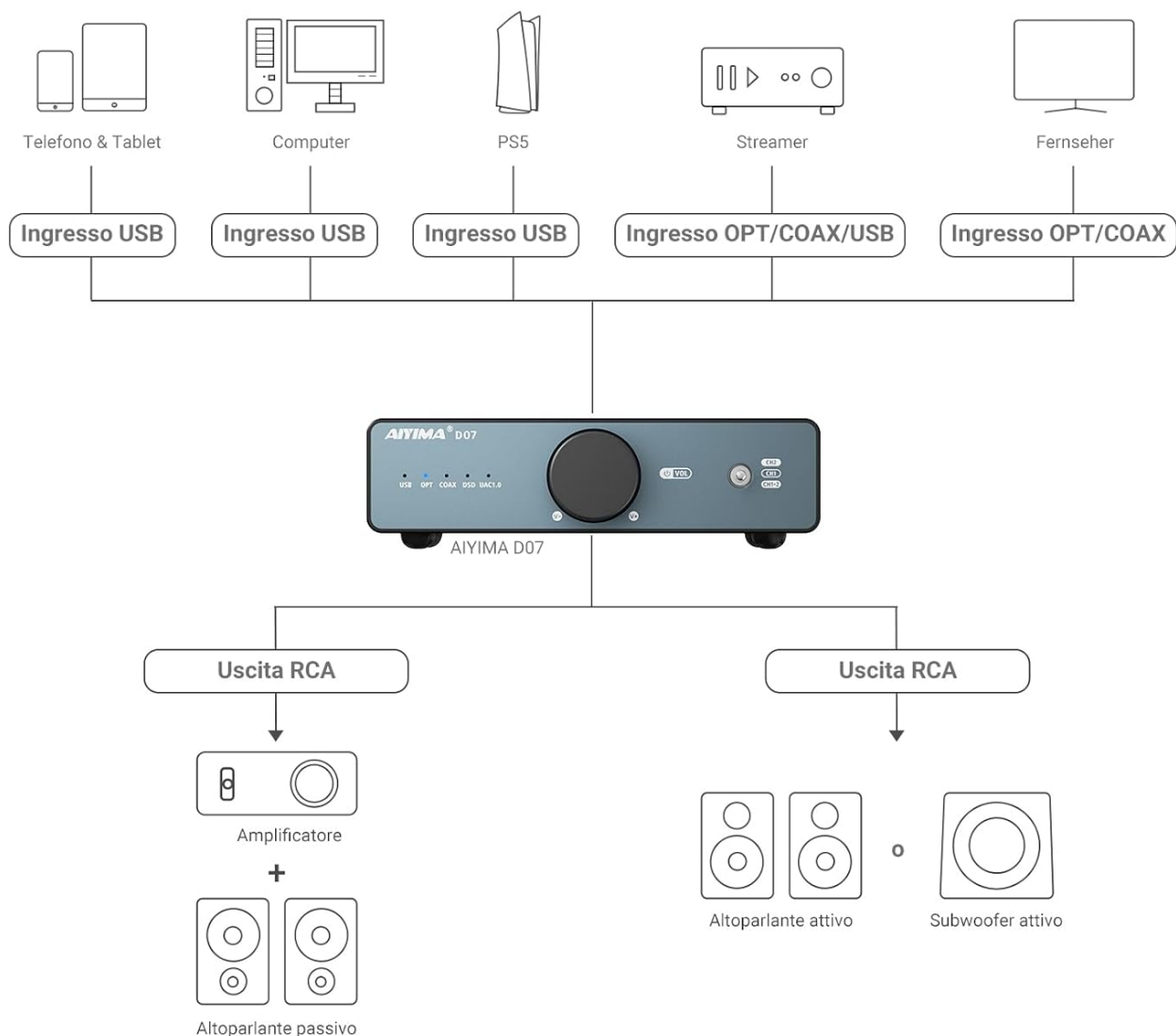


Figure 3: Device Integration Guide for various audio sources and output configurations.

3. OPERATING INSTRUCTIONS

Understand the controls and functions of your D07 DAC:

- **Power On/Off:** A short press of the **volume knob** will power on the device. A long press of the volume knob will power off the device.
- **Input Selection:** Short press the **volume knob** to cycle through the available input sources: USB, Optical (OPT), and Coaxial (COAX). The corresponding LED indicator on the front panel will illuminate to show the active input.
- **Volume Control:** Rotate the **volume knob** clockwise to increase volume and counter-clockwise to decrease volume.
- **Mute/Unmute:** Double-click the **volume knob** to mute or unmute the audio output.
- **Output Channel Selection:** Use the **toggle switch** on the front panel to select the desired RCA output channels: CH1, CH2, or CH1+2.
- **Bypass Mode (DAC/DAC+Preamp):** Press and hold the **BYPASS button** on the rear panel for approximately 3 seconds to

switch between DAC mode (fixed output level) and DAC+Preamp mode (variable output level controlled by the volume knob).

- **USB Audio Class (UAC) Selection:** Use the **UAC selector switch** on the rear panel to choose between UAC 1.0 and UAC 2.0 modes for USB input. UAC 1.0 is recommended for devices like PS5/Switch for broader compatibility.

Chipset di alta qualità

Il chipset di punta garantisce una decodifica precisa
e una trasmissione stabile

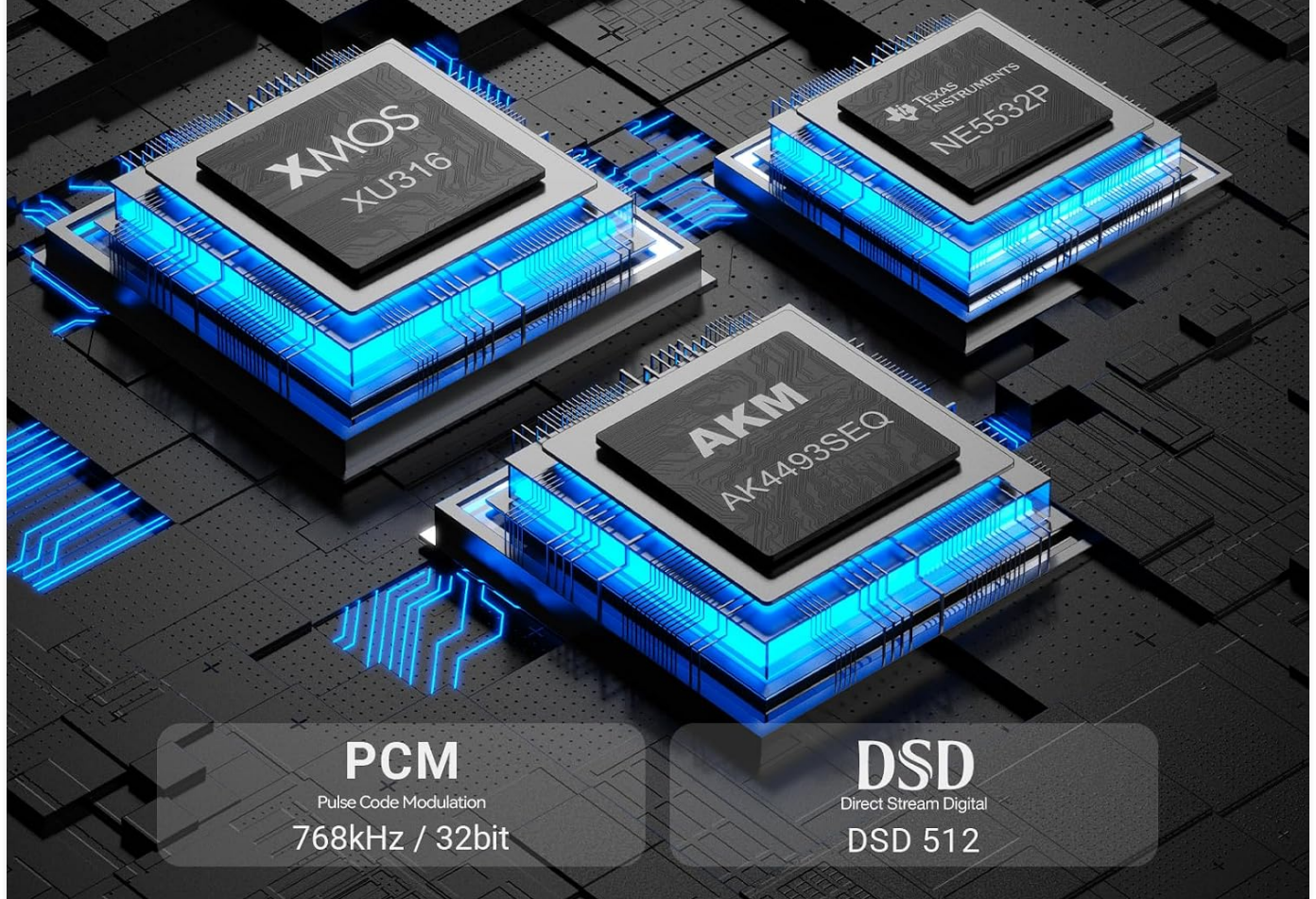


Figure 4: Front Panel Controls.

Comoda modalità di commutazione

Modalità DAC / DAC+ Preamp, commutabili con un solo pulsante



Figure 5: Rear Panel Bypass Button and USB-C Power/Input.

4. KEY FEATURES

- **High-Fidelity Chipset:** The D07 features a premium audio architecture including the AK4493SEQ DAC for warm sound, an NE5532P op-amp, and an XMOS XU316 USB processor for precise decoding and stable transmission.
- **High-Resolution Audio Support:** Effortlessly handles audio streams up to 768 kHz/32 bit PCM and DSD512, providing exceptional resolution and an immersive listening experience.
- **Interchangeable Op-Amp Design:** The NE5532P op-amp is mounted on a DIP8 socket, allowing for easy replacement with compatible models such as OPA1612, MUSES02, LME49720, Sparkos SS3602, or OPA2604. This feature enables users to customize the audio signature according to their preferences.
- **Exceptional Performance Metrics:** Measured performance characteristics include a signal-to-noise ratio (SNR) of up to 118 dB and a total harmonic distortion plus noise (THD+N) of just 0.0002%. This ensures an exceptionally pure background, rich details, and highly faithful sound reproduction.

Crea un sistema Hi-Fi da tavolo

Si abbina perfettamente agli amplificatori da tavolo come l'A07 MAX per creare il tuo sistema Hi-Fi da tavolo professionale



Figure 6: High-Quality Chipset Architecture.

La confezione include



AIYIMA D07 *1



Cavo ottico *1



Cavo 2 in 1 da USB-A/C a USB-C *1



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Figure 7: Demonstrating the Interchangeable Op-Amp.

5. MAINTENANCE

To ensure the longevity and optimal performance of your AIYIMA D07, please observe the following maintenance guidelines:

- **Cleaning:** Keep the device clean and free from dust. Use a soft, dry, lint-free cloth for cleaning the exterior. Avoid using liquid cleaners, aerosols, or solvents.
- **Environment:** Avoid exposing the device to extreme temperatures, high humidity, or direct sunlight. Ensure it is placed in a well-ventilated area to prevent overheating.
- **Handling:** Handle the device with care. Do not drop it or subject it to strong impacts.
- **Servicing:** Do not attempt to disassemble, modify, or repair the device yourself. Doing so may cause damage, electrical shock, and will void the product warranty. For any service needs, please contact authorized service personnel.

6. TROUBLESHOOTING

If you encounter issues with your AIYIMA D07, refer to the following common troubleshooting steps:

- **No Sound Output:**
 - Verify all power and audio cable connections are secure.
 - Ensure the correct input source (USB, OPT, COAX) is selected on the D07.
 - Check that the volume level is not set to minimum or muted (double-click the volume knob to unmute).
 - Confirm that your connected amplifier, active speakers, or headphones are powered on and functioning correctly.
 - If using USB input, try switching the UAC mode (UAC 1.0 or UAC 2.0) on the rear panel.
- **Distorted or Poor Sound Quality:**
 - Check all audio cables for damage or loose connections.
 - Ensure the audio source is not overdriving the input (e.g., volume too high on the source device).
 - Verify that the sample rate and bit depth settings on your source device are compatible with the D07's capabilities.
- **Device Not Recognized via USB:**
 - Try connecting the D07 to a different USB port on your computer or source device.
 - Use a different USB cable to rule out cable issues.
 - Ensure the UAC switch on the rear panel is set appropriately for your operating system or device (UAC 1.0 for PS5/Switch, UAC 2.0 for most modern computers).
 - For some operating systems, specific drivers might be required. Refer to the manufacturer's website for driver downloads if automatic installation fails.

7. SPECIFICATIONS

Feature	Specification
Brand	AIYIMA
Model	D07
DAC Chipset	AK4493SEQ
USB Processor	XMOS XU316
Op-Amp	NE5532P (Interchangeable DIP8)
Max USB Input (PCM)	768 kHz / 32 bit
Max USB Input (DSD)	DSD512
Inputs	USB-C, Optical, Coaxial
Outputs	2 x RCA (Stereo)
Output Mode	Stereo
Signal-to-Noise Ratio (SNR)	≥ 118 dB
Total Harmonic Distortion + Noise (THD+N)	0.0002%
Power Supply Voltage	5V DC

Feature	Specification
Compatible Devices	Smartphones/tablets, computers, digital audio players, TVs, PS5/Switch consoles, various digital audio sources
Dimensions (L x W)	13 cm x 13 cm

8. WHAT'S IN THE BOX

The AIYIMA D07 package includes the following items:

- 1 x AIYIMA D07 Mini Desktop DAC
- 1 x USB-C Cable
- 1 x Optical Cable
- 1 x User Manual
- 1 x After-Sales Service Card

La confezione include



AIYIMA D07 *1



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9. WARRANTY AND SUPPORT

The AIYIMA D07 comes with a manufacturer's warranty. Please refer to the included After-Sales Service Card for detailed warranty terms, conditions, and duration. For technical support, product inquiries, or warranty claims, please contact AIYIMA customer service through their official channels or the retailer from whom you purchased the product. Keep your purchase receipt as proof of purchase for warranty purposes.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question