

## AIYIMA DAC-A6

# AIYIMA DAC A6 Bluetooth DAC Decoder User Manual

Model: DAC-A6

## 1. INTRODUCTION

The AIYIMA DAC A6 is a high-fidelity Digital-to-Analog Converter (DAC) designed to enhance your audio experience. It features advanced decoding capabilities, multiple input options, and Bluetooth 5.0 for wireless audio streaming. This manual provides detailed instructions for setting up and operating your DAC A6.

## 2. KEY FEATURES

- **DSD512 32bit/768kHz USB Decoding:** Supports high-resolution audio formats up to DSD512 and PCM 32bit/768kHz.
- **ESS SABRE ES9038Q2M HiFi Decoding:** Utilizes a high-performance ESS SABRE DAC chip for exceptional sound quality and low total harmonic distortion (THD).
- **XMOS XU208 USB Interface:** Features the XMOS second-generation XU208 chip with a custom driver for Windows 7 and higher, ensuring optimal high-resolution audio support, including DSD Native.
- **Bluetooth 5.0 with HD Transmission:** Equipped with a CSR8675 Bluetooth chip, supporting LDAC, AAC, SBC, aptX, aptX-LL, and aptX-HD audio codecs for high-quality wireless streaming.
- **Multiple Digital Audio Inputs:** Offers versatile connectivity with Bluetooth, PC-USB, Coaxial, and Optical inputs.

## 3. PACKAGE CONTENTS

Please check the box for the following items:

- AIYIMA DAC A6 Unit
- Remote Control x 1
- Power Adapter (DC 12V)
- USB Cable
- Bluetooth Antenna

- User Manual (this document)

## 4. PRODUCT OVERVIEW

### 4.1 Front Panel



Image: Front panel of the AIYIMA DAC A6, showing the OLED display, volume knob, power/mode button, and IR receiver.

- **Power/Mode Button:** Press to power on/off, short press to switch input modes.
- **OLED Display:** Shows current input, sampling rate, and volume level.
- **Volume Knob:** Rotate to adjust volume.
- **IR Receiver:** For remote control signals.

### 4.2 Rear Panel



Input:	Bluetooth/PC-USB/COA/OPT
Output:	Active speaker/Passive speaker+Amplifier
Bluetooth:	Bluetooth 5.0 Support: APT-X HD, APT-X LL, LDAC
Frequency response:	10Hz-40kHz ( $\pm 3\text{db}$ )
Distortion:	$\leq 0.0006\%$
Net weight:	0.4kg
PC-USB sampling rate:	32bit/768khz,DSD512
Working voltage:	DC12V

Image: Rear panel of the AIYIMA DAC A6, showing DC 12V power input, RCA L/R outputs, Coaxial input, Optical input, PC-USB input, and RF antenna connector.

- **DC 12V Input:** Connect the provided power adapter.
- **RCA L/R Output:** Connect to an amplifier or active speakers.
- **Coaxial Input:** Digital audio input.
- **Optical Input:** Digital audio input.
- **PC-USB Input:** Connect to a computer for USB audio.
- **RF Antenna:** Connect the Bluetooth antenna for wireless reception.

#### 4.3 Remote Control



Image: Layout of the AIYIMA DAC A6 remote control, showing buttons for power, mute, input selection (BT, COA, OPT, USB), screen on/off, and volume up/down.

- **Switch:** Power on/off.
- **Mute:** Mute/unmute audio.
- **Input Channel Selection:** Buttons for BT, COA, OPT, USB.
- **Turn on/off screen:** Toggles the OLED display.
- **VOL+/-:** Adjusts volume.

## 5. SETUP INSTRUCTIONS

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1. **Connect Bluetooth Antenna:** Screw the provided Bluetooth antenna into the RF connector on the rear panel.
2. **Connect Audio Output:**
  - For active speakers: Connect the RCA L/R OUTPUT of the DAC A6 directly to your active speakers using RCA cables.
  - For passive speakers with an amplifier: Connect the RCA L/R OUTPUT of the DAC A6 to the input of your amplifier. Then, connect your passive speakers to the amplifier's output.



Image: Diagram illustrating connection options for the DAC A6 to active speakers or an amplifier with passive speakers.

3. **Connect Audio Input:** Choose one of the following input methods:

- **PC-USB:** Connect a USB cable from your computer to the PC-USB input on the DAC A6.
- **Coaxial:** Connect a coaxial cable from your audio source to the COAX input.
- **Optical:** Connect an optical cable from your audio source to the OPT input.
- **Bluetooth:** Ensure the Bluetooth antenna is connected.



*Image: Close-up of the PC-USB input on the DAC A6, showing a USB cable connected.*

4. **Connect Power:** Connect the DC 12V power adapter to the DAC A6 and then plug it into a power outlet.

## 5.1 PC-USB Driver Installation (Windows)

For Windows 7 or higher, a custom driver is required for optimal performance, especially for DSD Native playback. Please visit the AIYIMA official website to download the latest driver for the DAC A6.

## 6. OPERATING INSTRUCTIONS

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1. **Power On/Off:** Press the Power/Mode button on the front panel or the "Switch" button on the remote control.
2. **Select Input Mode:**
  - Short press the Power/Mode button on the front panel to cycle through inputs (Bluetooth, PC-USB, Coaxial, Optical).
  - Alternatively, use the dedicated input buttons (BT, COA, OPT, USB) on the remote control.



*Image: Close-up of the power/mode button on the DAC A6.*

3. **Adjust Volume:** Rotate the volume knob on the front panel or use the VOL+/- buttons on the remote control. The OLED display will show the current volume level.



*Image: Close-up of the OLED display showing "USB Input 192 KHz Volume 90".*

4. **Bluetooth Pairing:**
  - Select Bluetooth input mode on the DAC A6. The OLED display will indicate "BT Input".
  - On your mobile device, search for Bluetooth devices and select "BT HIFI AUDIO" to pair.
  - Once connected, you can stream audio wirelessly to the DAC A6.



# DAC-A6 BT 5.0 DECODING AMPLIFIER

32bit/768kHz DSD512 HiFi sound quality is clear



Image: A smartphone displaying Bluetooth settings, showing "BT HIFI AUDIO" as a discoverable device, next to the DAC A6.

5. **OLED Display Control:** Use the "Turn on/off screen" button on the remote to toggle the OLED display.

## 6.1 Setting TV Optical/Coaxial Output

If there is no audio output when connecting your TV via optical or coaxial, you may need to adjust your TV's audio settings.

1. Navigate to your TV's "System Settings" or press the remote control's [Settings] key.
2. Find "Sound" or "Audio Output" settings and select "Optical Fiber" or "Coaxial Output".
3. After setting, if there is still sound from the TV's internal speakers, adjust the TV volume to 0 using the TV remote control.
4. Note: Some TVs may automatically disable internal speakers when external speakers are detected, resulting in no sound from the TV itself.

## HOW TO SET TV OPT/COA OUTPUT?

- "Application" desktop-"Settings" or press the remote control [Settings] key-"System Settings"-"Sound"-optical / coaxial output mode-turn on.
- After setting, if there is still have sound when playing TV, you can adjust the TV sound to 0 through the TV remote control.
- If some TVs are equipped with external speakers, there will be no sound on the TV.

Image: A visual guide showing TV menu navigation to adjust sound output settings for optical/coaxial connections.

## 6.2 Video Demonstration

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Video: An official product video demonstrating the AIYIMA DAC A6 Decoder Receiver in use, showcasing its connectivity and audio playback.

## 7. SPECIFICATIONS

Feature	Specification
Brand	AIYIMA
Model Number	DAC-A6
Maximum Supply Voltage	12 Volts
Interface Type	Coaxial, USB, Optical, Bluetooth
Number of Channels	2
Product Dimensions	5.24"L x 4.92"W
Item Weight	1.54 pounds
PC-USB Sampling Rate	32bit/768kHz, DSD512
Bluetooth Support	APT-X HD, APT-X LL, LDAC, AAC, SBC
Frequency Response	10Hz-40kHz ( $\pm 3\text{db}$ )
Distortion	$\leq 0.0006\%$





Input:	Bluetooth/PC-USB/COA/OPT
Output:	Active speaker/Passive speaker+Amplifier
Bluetooth:	Bluetooth 5.0 Support: APT-X HD, APT-X LL, LDAC
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Working voltage:	DC12V

Image: Rear view of the DAC A6 with dimensions and a table of key specifications including input types, output, Bluetooth support, frequency response, distortion, net weight, PC-USB sampling rate, and working voltage.

## 8. TROUBLESHOOTING

### • No Sound Output:

- Ensure all cables are securely connected.
- Verify the correct input mode is selected on the DAC A6.
- Check the volume levels on both the DAC A6 and your connected amplifier/speakers.
- If using TV optical/coaxial, ensure the TV's audio output settings are correctly configured (see "Setting TV Optical/Coaxial Output" section).
- For PC-USB, confirm the driver is installed and the DAC A6 is selected as the audio output device in your computer's sound settings.

### • Intermittent Audio or Noise (PC-USB):

- Ensure the PC-USB driver is correctly installed and up to date, especially for Windows 11.

- Try a different USB port or USB cable.
- Minimize other USB devices connected to the computer.
- **Bluetooth Connection Issues:**
  - Ensure the Bluetooth antenna is securely attached.
  - Verify the DAC A6 is in Bluetooth input mode.
  - Delete "BT HIFI AUDIO" from your device's paired list and try pairing again.
  - Ensure your device is within range of the DAC A6.
- **Humming or Buzzing Noise:**
  - This can sometimes be caused by electromagnetic interference. Try repositioning the DAC A6 unit, its power cable, and audio cables away from other electronic devices or power sources.
  - Consider using shielded audio cables.
  - If using a linear power supply, ensure it is properly grounded and positioned.

## 9. WARRANTY AND SUPPORT

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AIYIMA products are designed for reliability and performance. For warranty information, technical support, or service inquiries, please refer to the official AIYIMA website or contact your local dealer. Keep your purchase receipt as proof of purchase.

For further assistance, you may visit the AIYIMA store on Amazon: [AIYIMA Store](#).