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Daakro HA01 Pro



Daakro HA01 Pro Headphone Amplifier

USB C to 3.5mm HiFi Audio Adapter

1. INTRODUCTION

Product Overview

The Daakro HA01 Pro is a portable USB-C to 3.5mm HiFi audio adapter designed to enhance your audio experience across various devices. This compact DAC and headphone amplifier delivers high-resolution sound with support for up to 32bit/768kHz PCM and DSD256 decoding. It features advanced chip technology, multiple audio filter modes, and high/low gain switching to accommodate a wide range of headphones and listening preferences. Its plug-and-play design ensures ease of use with Android, iOS, Windows, and Mac systems, as well as gaming consoles like the Nintendo Switch.

What's in the Box

- Headphone Amplifier



Figure 1: Daakro HA01 Pro Headphone Amplifier with included accessories.

2. KEY FEATURES

Universal Compatibility

The HA01 Pro transforms USB-C ports into premium audio hubs. It is compatible with Android and iOS phones (iPhone 15+ natively; iPhone 14/older via OTG cable, not included), Windows/Mac PCs, tablets, Nintendo Switch, and other Type-C devices. It connects seamlessly to wired headphones and speakers, providing superior audio quality compared to built-in jacks.

Widely Compatible with Type-C Devices

Type-C interface + Standard Adapter, No Driver Installation Required, Plug and Play, Compatible with Most Android, IOS, Windows Mobile Phones, Tablets, and Other Devices on the Market



iPhone 15/Series



Android Phones



Tablets/Laptops



Figure 2: Broad compatibility with Type-C devices.

Advanced Decoding Capabilities

This upgraded version supports DSD256 and PCM 32-bit/768 kHz decoding, ensuring high-resolution sound reproduction. It delivers crisp vocals, deep bass, and zero distortion, making it ideal for music, gaming, and console audio.

High-Definition Decoding Listen To Your Heart

Supports PCM32bit/768kHz and DSD256 Hardware Decoding

**Easily Decode Various Lossless Format Audio Sources
Turn Your Ordinary Mobile Phone Into A Professional
Decoding Player In Seconds**



Figure 3: High-definition audio decoding capabilities.

Flagship DAC Chips

Equipped with Cirrus Logic's CS43198 and CT7601 DAC chips, the HA01 Pro offers exceptional system-level audio performance with minimal power consumption from mobile devices. It boasts an ultra-low noise floor of $1\mu\text{V}$, a total harmonic distortion (THD) of 0.0001%, and a signal-to-noise ratio (SNR) of up to 132dB.

Flagship CS43198+CT7601 DAC chip

Low power consumption, high performance, and excellent sound quality
Controls various music styles with ease



Supports up to 32-bit 768 kHz decoding 

Figure 4: Internal DAC chip architecture.

Powerful Output and Impedance Range

With a powerful drive of up to 60mW@16Ω/55mW@32Ω, it effortlessly powers both high- and low-impedance headphones via 3.5mm single-ended balanced connections. It supports an ultra-wide adaptive impedance range of 16-600Ω, ensuring pure, crystal-clear sound quality across various audio devices.

5 Filter Modes & High/Low Gain Switching

The amplifier features 3 output levels (0.5V/1V/2V) and 5 filter modes, along with high/low gain switching. These options allow adaptation to all headphones, IEMs, and line-outs, tailoring soundstage depth and transient response for optimal listening.

Durable and Portable Design

The HA01 Pro features a CNC integrated cutting aluminum alloy shell with a professional heat dissipation channel design to prevent heat accumulation. Its sleek, compact design weighs just 14 grams, ensuring exceptional portability and convenience. It also includes an 8-strand three-dimensional braided single-crystal copper silver-

plated wire for enhanced conductivity and durability.

CNC Integrated Cutting Aluminum Alloy Shell

Professional Heat Dissipation Channel
Design Prevents Heat Accumulation
And Keeps The Device Cooler

2.5D Curved Tempered Glass



Figure 5: CNC integrated cutting aluminum alloy shell with transparent back.

8-Strand Three-Dimensional Braided Single-Crystal Copper Silver-Plated Wire

Single-Crystal Copper

Impurity-Free High Purity Copper Material

Silver-Plated Layer

Further Improved Conductivity

Insulation Layer

Oxidation-Resistant And Tensile Resistant Body, Extending Service Life



Figure 6: Detailed view of the high-quality braided cable.

3. SETUP GUIDE

Connecting the Device

The Daakro HA01 Pro is designed for plug-and-play operation, requiring no driver installation for most compatible devices.

1. **Connect to Source Device:** Insert the USB-C connector of the HA01 Pro into the USB-C port of your smartphone, tablet, laptop, or gaming console (e.g., Nintendo Switch). For older iPhones (iPhone 14 and earlier), an OTG cable (not included) is required.
2. **Connect Headphones/Speakers:** Plug your 3.5mm wired headphones or speakers into the 3.5mm audio jack on the HA01 Pro.

3. **Audio Output Selection:** On some devices, you may need to manually select the HA01 Pro as the audio output device in your system's sound settings.

The device will automatically detect and begin processing audio. Note that the HA01 Pro does not support answering incoming calls.

4. OPERATING INSTRUCTIONS

Filter Modes and Gain Switching

The HA01 Pro offers 5 filter modes and high/low gain switching to customize your listening experience. These settings allow you to fine-tune the sound profile to match your headphones and audio preferences.

Table 1: Filter Modes

Mode	Filter Name
Mode 1 (Default)	Fast roll-off, Low-latency filter
Mode 2	Fast roll-off, Phase-compensated filter
Mode 3	Slow roll-off, Low-latency filter
Mode 4	Slow roll-off, Phase-compensated filter
Mode 5	Non over-sampling filter

Refer to the product's physical controls or accompanying quick start guide for instructions on how to switch between these modes and adjust gain settings.

3 Output Levels: 0.5V/1V/2V

5 Types of Filtering & High/Low Gain Switching

Easily accommodates various sensitivities, various impedance headphones, and line outputs

Filter Mode	Filter Name
Mode 1	Fast roll-off , Low-latency filter
Mode 2	Fast roll-off ,Phase-compensated filter
Mode 3	Slow roll-off , Low-latency filter
Mode 4	Slow roll-off , Phase-compensated filter
Mode 5	Non over-sampling filter

Note: If you press and hold the button and then start the device, it will operate in UAC 1.0 mode. The UAC mode cannot be switched while the device is operating.



Figure 7: Output levels and filter mode options.

UAC 1.0 Mode Activation

For specific compatibility, such as with Nintendo Switch or PS5, the HA01 Pro supports UAC 1.0 mode, which provides a low-latency gaming experience. To activate UAC 1.0 mode:

- Press and hold the power button during startup.

Note: You cannot switch the UAC mode while the device is operating.

5. MAINTENANCE

Cleaning and Care

- Keep the device clean by wiping it with a soft, dry cloth.

- Avoid using harsh chemicals, cleaning solvents, or strong detergents.
- Do not expose the device to extreme temperatures, humidity, or direct sunlight.
- Store the device in a cool, dry place when not in use.

6. TROUBLESHOOTING

Common Issues and Solutions

- **No Sound Output:**

- Ensure the HA01 Pro is securely connected to both the source device and your headphones/speakers.
- Check the volume levels on both your source device and any connected headphones.
- Verify that the HA01 Pro is selected as the audio output device in your operating system's sound settings.
- If using an iPhone 14 or older, confirm the OTG cable is properly connected and functional.

- **Distorted or Low-Quality Sound:**

- Ensure your audio files are of good quality (e.g., not highly compressed).
- Experiment with the 5 filter modes to find the optimal sound profile for your headphones and audio content.
- Adjust the high/low gain setting to match the impedance of your headphones.
- Check for any interference from other electronic devices.

- **Device Not Recognized:**

- Try disconnecting and reconnecting the HA01 Pro.
- Restart your source device.
- Ensure your source device's USB-C port is functioning correctly.
- If using UAC 1.0 mode, ensure it was activated correctly during startup.

7. TECHNICAL SPECIFICATIONS

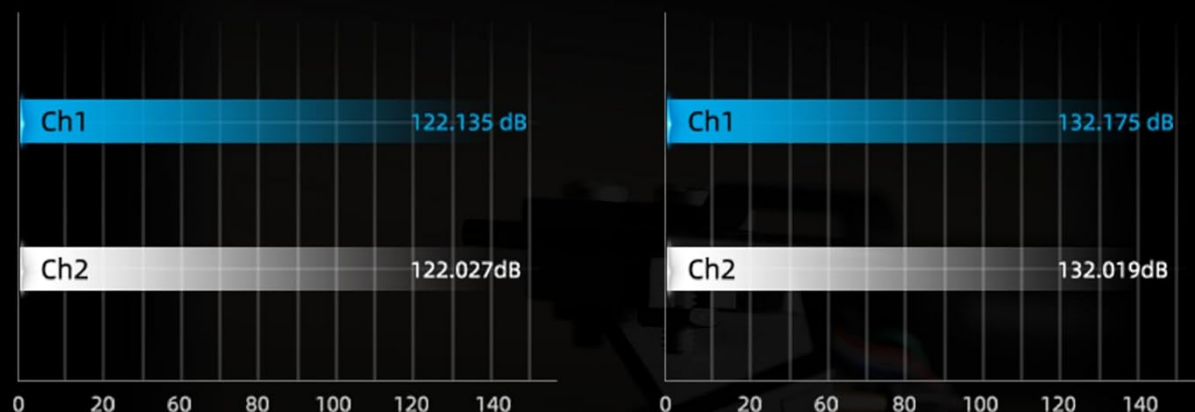
Table 2: Product Specifications

Feature	Detail
Brand	Daakro
Model Number	HA01 Pro
Connectivity Technology	Auxiliary
Compatible Devices	Personal Computer, Tablet, Amplifier, Headphone, Smartphone
Connector Type	USB Type-C, 3.5mm Jack

Feature	Detail
Audio Output Mode	Stereo
Color	Black
Output Power	60 Milliwatts (at 16Ω), 55 Milliwatts (at 32Ω)
Wattage	60 Milliwatts
Decoding Support	PCM 32-bit/768 kHz, DSD256
DAC Chips	Cirrus Logic CS43198, CT7601
Noise Floor	1μV
Total Harmonic Distortion (THD)	0.0001%
Signal-to-Noise Ratio (SNR)	Up to 132dB
Adaptive Impedance Range	16-600Ω
Output Levels	0.5V, 1V, 2V
Item Weight	2.08 ounces
Package Dimensions	6.93 x 3.39 x 1.22 inches
Country of Origin	China
Date First Available	June 15, 2025

Core Parameters

- SNR up to 132dB -



- Impedance Range -

16 ~ 600Ω

- Dynamic Range -

131dB

- Maximum Decoding Specifications -

PCM 32Bit/768KHz

DSD256 Encoding

* Note: Data is from laboratory testing. Actual parameters may vary depending on the environment.

Figure 8: Core audio performance parameters.

8. WARRANTY AND CUSTOMER SUPPORT

Warranty Information

The Daakro HA01 Pro comes with a 30-day warranty from the date of purchase. Please retain your proof of purchase for warranty claims.




Customer Support

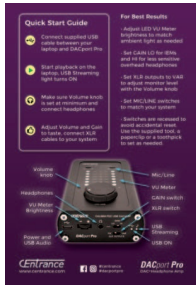
For any questions, technical assistance, or warranty inquiries, please contact Daakro customer service. We offer 24-hour online customer service to ensure your satisfaction.



Figure 9: Daakro After-Sales Support information.

Related Documents - HA01 Pro

	<p>Daakro AV-735A Audio Amplifier Instruction Manual</p> <p>Comprehensive instruction manual for the Daakro AV-735A audio amplifier, detailing front and rear panel functions, remote control operation, wiring instructions, usage guides, and troubleshooting FAQs.</p>
	<p>EverSolo DAC-Z8 High Resolution DAC & Headphone Amplifier Product Manual</p> <p>Product manual for the EverSolo DAC-Z8, a high-resolution DAC, fully balanced preamp, and headphone amplifier featuring XMOS 316, ESS ES9038 Pro DAC, MQA support, and versatile connectivity options.</p>
	<p>HIFIMAN SERENADE DAC and Headphone Amplifier - Technical Specifications and User Guide</p> <p>Detailed information on the HIFIMAN SERENADE, a professional digital-analog converter and headphone amplifier, featuring HYMALAYA PRO technology. Includes front/rear panel descriptions, block diagram, technical specifications, package contents, and warranty information.</p>



[CEEntrance DACport Pro Quick Start Guide and Best Practices](#)

A concise guide to setting up and optimizing your CEEntrance DACport Pro DAC and Headphone Amplifier for the best audio experience, including device overview and usage tips.



[Fosi Audio K5 Pro User Manual: Setup, Specifications, and Troubleshooting](#)

Comprehensive user manual for the Fosi Audio K5 Pro Mini Stereo Gaming DAC. Includes detailed product specifications, step-by-step setup guides for USB and optical/coaxial inputs, control functions, troubleshooting tips, comparison with DAC Q4, and warranty information.



[Loxjie D40 PRO Instruction Manual](#)

Instruction manual for the Loxjie D40 PRO, a high-resolution USB DAC featuring MQA decoding, ESS ES9039MSPRO DAC chip, XMOS XU-316, and a balanced headphone amplifier. Details specifications, features, remote control operation, parts identification, function settings, MQA playback, and indicator light descriptions.