

Douk Audio DAC-Q11

Douk Audio Q11 Digital to Analog Audio Converter User Manual

Model: DAC-Q11 | Brand: Douk Audio

1. INTRODUCTION

The Douk Audio Q11 is a state-of-the-art Digital to Analog Audio Converter (DAC) engineered to deliver an exceptional audio experience. It integrates advanced technology, including a unique dual DAC chip switching system, allowing users to select between the robust dynamics of the ESS9038Q2M chip and the refined tones of the AK4493 chip. This device is designed for audiophiles seeking high-fidelity sound conversion from various digital sources to analog outputs for their audio systems.



Figure 1: Front view of the Douk Audio Q11 Digital to Analog Audio Converter, showcasing its dual OLED displays and central control knob.

2. KEY FEATURES

- **Switchable Dual DAC Chips:** Features both ESS9038Q2M and AK4493 DAC chips, allowing users to switch between them for different sound characteristics.
- **High-Performance Audio:** Achieves an exceptional Signal-to-Noise Ratio (SNR) of $\geq 117\text{dB}$ and an ultra-low Total Harmonic Distortion (THD) of 0.0003%.
- **High-Resolution PC-USB Input:** Supports audio transmission up to 32Bit/384kHz and DSD256 playback via PC-USB.
- **Multiple Connectivity Options:** Equipped with Optical, Coaxial, and PC-USB inputs, along with two sets of RCA and two sets of AUX outputs.
- **Dual OLED Display:** Two OLED screens provide real-time information on sampling rates, volume levels, and

the active decoding chip.

- **Large Volume Knob:** Designed for precise and easy volume adjustments.
- **Exquisite Design:** Features a glass window on top to showcase internal components and comes with a remote control for convenience.

2.1 Dual DAC Chip Technology

The Q11 is pioneering with its world's first DAC chip switching technology, backed by a proprietary patent. This allows you to experience the robust dynamics of the ESS9038Q2M or the refined tones of the AK4493, vastly enhancing personalized audio experiences.



Figure 2: Illustration of the dual DAC chip architecture and key performance metrics.

2.2 Multiple Inputs and Outputs

The Q11 offers versatile connectivity to integrate seamlessly with various audio sources and playback devices. It supports Optical, Coaxial, and PC-USB inputs for digital audio, and provides two sets of RCA and two sets of 3.5mm AUX outputs for analog connections.

Multiple inputs and outputs

Support Optical, Coaxial, and PC-USB inputs
2 sets of RCA and 2 sets of AUX outputs



Figure 3: Front and rear views illustrating the comprehensive input and output options.

2.3 User Interface and Design

The unit features dual OLED displays that show real-time sampling rates, volume levels, and the active decoding chip status, enhancing user convenience. A large, easy-to-use volume control knob allows for delicate and precise audio adjustments. The top panel includes a glass window, offering a view of the internal circuitry.

Dual OLED display & Large volume knob

Display real-time sampling rates, volume levels,
and decoding chip statuses



Figure 4: Close-up of the Q11's front panel, highlighting the OLED displays and control knob.



Figure 5: The Q11 in a desktop setup, demonstrating the included remote control and the transparent top panel.

3. SETUP GUIDE

3.1 Unpacking the Device

Carefully remove all components from the packaging. Please verify that all items listed below are present:

- 1x DAC-Q11 Unit
- 1x Remote Control (batteries not included)
- 1x Optical Cable
- 1x USB Cable
- 1x DC 12V Power Adapter

PACKING LIST



Figure 6: Contents included in the Douk Audio Q11 package.

3.2 Connecting to Power

1. Connect the DC 12V power adapter to the "DC 12V IN" port on the rear panel of the DAC-Q11.
2. Plug the power adapter into a suitable wall outlet.

3.3 Connecting Audio Sources

Choose one of the following input methods based on your audio source:

- **Optical Input (OPT):** Connect an optical cable from your audio source (e.g., TV, game console, CD player) to the "OPT" port on the Q11.
- **Coaxial Input (COA):** Connect a coaxial cable from your audio source to the "COA" port on the Q11.
- **PC-USB Input:** Connect the provided USB cable from your computer (PC or Laptop) to the "PC-USB" port on the Q11. Ensure necessary drivers are installed on your computer for optimal performance, especially for DSD playback.

3.4 Connecting Audio Outputs

Connect the Q11 to your amplifier or active speakers using either RCA or AUX outputs:

- **RCA Outputs (OUT 1 / OUT 2):** Use RCA cables to connect the "OUT 1" or "OUT 2" RCA ports on the Q11 to the corresponding analog inputs on your amplifier or active speakers.
- **AUX Outputs (OUT 1 / OUT 2):** Use 3.5mm AUX cables to connect the "OUT 1" or "OUT 2" AUX ports on the Q11 to the corresponding 3.5mm inputs on your amplifier or active speakers. Both RCA and AUX outputs can work simultaneously.



Figure 7: Rear panel connection diagram for the Douk Audio Q11.

4. OPERATING INSTRUCTIONS

4.1 Power On/Off

Press the central knob on the front panel to power the unit on or off.

4.2 Input Selection

Rotate the central knob to cycle through the available input modes: Optical (OPT), Coaxial (COA), and PC-USB. The selected input will be displayed on the left OLED screen.



Figure 8: Front panel layout with labeled controls and displays.

4.3 Volume Adjustment

Rotate the central knob to adjust the output volume. The volume level (0-99) will be displayed on the left OLED screen.

4.4 DAC Chip Mode Selection

The Douk Audio Q11 allows you to switch between different DAC chip modes to tailor the sound to your preference. This function is primarily controlled via the included remote control.

- **Mode 1 (AKM + ESS):** Both DAC chips are active, providing a blended sound signature.

- **Mode 2 (AKM):** Only the AK4493 chip is active, offering its characteristic sound.
- **Mode 3 (ESS):** Only the ESS9038Q2M chip is active, providing its characteristic sound.

Use the dedicated buttons on the remote control to cycle through these modes. The active mode will be displayed on the right OLED screen.

Video 1: Demonstration of the Douk Audio Q11's user interface, including volume adjustment and DAC chip mode switching.

5. TECHNICAL SPECIFICATIONS

Parameter	Value
Product Dimensions	6.1 x 4.92 x 1.65 inches
Weight	1.3 Pounds
Item Model Number	DAC-Q11
Manufacturer	Douk Audio
Signal-to-Noise Ratio (SNR)	≥117dB
Total Harmonic Distortion (THD)	0.0003%
PC-USB Input Support	32Bit/384kHz, DSD256
Inputs	Optical, Coaxial, PC-USB
Outputs	2x RCA, 2x 3.5mm AUX

6. MAINTENANCE AND CARE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Avoid using abrasive cleaners, solvents, or strong chemicals, as they may damage the finish.
- **Ventilation:** Ensure adequate ventilation around the unit to prevent overheating. Do not block any ventilation openings.
- **Placement:** Place the unit on a stable, flat surface away from direct sunlight, heat sources, excessive dust, moisture, or vibrations.
- **Power Disconnection:** Disconnect the power adapter from the wall outlet if the unit will not be used for an extended period.


7. TROUBLESHOOTING




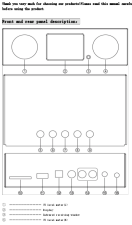

Problem	Possible Cause	Solution
No sound output	Incorrect input selected; Cables not properly connected; Volume too low; Amplifier/speakers off or muted.	Verify the correct input is selected on the Q11. Check all audio cables for secure connections. Increase the volume on the Q11 and your amplifier/speakers. Ensure amplifier/speakers are powered on and not muted.
Distorted or poor sound quality	Poor quality audio source; Damaged cables; Incorrect sampling rate setting; Interference.	Ensure your audio source is of good quality. Replace any damaged cables. Check the sampling rate displayed on the Q11 and ensure it matches your source. Move the unit away from other electronic devices that may cause interference.
Remote control not working	Batteries are dead or incorrectly inserted; Obstruction between remote and unit; Remote sensor blocked.	Replace batteries with new ones, ensuring correct polarity. Remove any obstructions between the remote and the Q11. Ensure the remote sensor on the Q11's front panel is not blocked.
PC-USB DSD playback issues	Missing or incorrect DSD drivers for your operating system.	Contact Douk Audio customer support directly to obtain the necessary DSD drivers for your specific operating system.

8. WARRANTY AND SUPPORT

For information regarding warranty coverage and terms, please refer to the documentation provided at the time of purchase or contact your retailer. For technical support, driver downloads, or any other inquiries, please visit the official Douk Audio website or contact their customer service department.

Related Documents - DAC-Q11

	<p>Douk Audio DAC-Q11 User Manual: Setup, Specifications, and Troubleshooting</p> <p>Comprehensive user manual for the Douk Audio DAC-Q11 Digital to Analog Converter. Learn about its features, specifications, setup instructions, PC-USB driver installation, connection diagrams, and troubleshooting tips.</p>
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	<p>DOUK AUDIO U2/U2 Pro USB to Coaxial/Optical Converter User Manual</p> <p>Comprehensive user manual for the DOUK AUDIO U2 and U2 Pro Mini XMOS USB to Coaxial/Optical Converters, detailing driver installation, audio output setup, DSD music playback with Foobar2000, and system compatibility.</p>
	<p>Douk Audio D1 Audio Amplifier User Manual</p> <p>User manual for the Douk Audio D1 audio amplifier, detailing its features, specifications, front and rear panel controls, and operational instructions for optimal audio performance.</p>
	<p>Douk Audio ST-01/ST-01 PRO HiFi Valve Amplifier User Manual</p> <p>Comprehensive user manual for the Douk Audio ST-01 and ST-01 PRO HiFi Valve Amplifiers, covering operation, features, specifications, and troubleshooting.</p>
	<p>Douk Audio C100 Mini HiFi Preamp User Manual</p> <p>User manual for the Douk Audio C100 Mini HiFi Preamp, detailing front and rear panel descriptions, operation steps, remote control functions, screen display information, specifications, and troubleshooting FAQs.</p>
	<p>Douk Audio M10 Amplifier User Manual</p> <p>User manual for the Douk Audio M10 Hi-Fi Stereo Amplifier, detailing its features, connections, and operation for optimal audio performance.</p>