

Nobsound Q3-N

Nobsound Q3 Mini USB DAC User Manual

Model: Q3-N

1. INTRODUCTION

The Nobsound Q3 is a versatile Mini USB Digital to Analog Converter (DAC) and Headphone Amplifier designed to enhance your audio experience. It features multiple input options including PC-USB, Optical, and Coaxial, and provides RCA and 3.5mm headphone outputs. With its compact size and robust features like treble and bass control, the Q3 is ideal for various home and desktop audio setups.

This manual provides detailed instructions for setting up, operating, and maintaining your Nobsound Q3 DAC to ensure optimal performance and longevity.

2. SAFETY INFORMATION

- Ensure the device is powered by a stable DC 5V power supply.
- Do not expose the unit to water, moisture, or extreme temperatures.
- Avoid placing the unit near heat sources or in direct sunlight.
- Do not disassemble the unit. Refer all servicing to qualified personnel.
- Keep out of reach of children.
- Disconnect power before cleaning or if the unit will be unused for a long period.

3. PACKAGE CONTENTS

Please check the box for the following items:

- 1x Nobsound Q3 DAC
- 1x USB Cable
- 1x USB Data Cable
- 1x Optical Cable

PACKING LIST

Net Weight: 200g/0.44lb

Package Weight: 420g/0.93lb



USB Data Cable



Optical Cable



USB Cable

Image: The Nobsound Q3 DAC unit shown alongside its included accessories: a USB Data Cable, an Optical Cable, and a USB Cable.

4. PRODUCT OVERVIEW

The Nobsound Q3 is a compact and elegantly designed audio device. Its black aluminum case ensures durability and a sleek appearance, making it suitable for any desktop or home audio setup.



Image: A front-angle view of the Nobsound Q3 Mini USB DAC, showcasing its compact black aluminum chassis and front panel controls.

Front Panel Features:

- **Input Selector Switch:** Toggle between USB, Optical (OPT), and Coaxial (COA) inputs.
- **Headphone Output (3.5mm):** Connect your headphones.
- **Bass Control Knob:** Adjust the bass level.
- **Treble Control Knob:** Adjust the treble level.
- **Volume Control Knob:** Adjust the overall output volume for both headphone and RCA outputs.
- **Power Indicator:** Illuminates when the device is powered on.

Rear Panel Features:

- **DC 5V Input:** Power connection port.
- **RCA Audio Output (L/R):** Connect to external amplifiers or active speakers.
- **Coaxial Audio Input:** Connect digital audio sources via coaxial cable.
- **Optical Audio Input:** Connect digital audio sources via optical cable.
- **PC-USB Input:** Connect to a computer for USB audio.

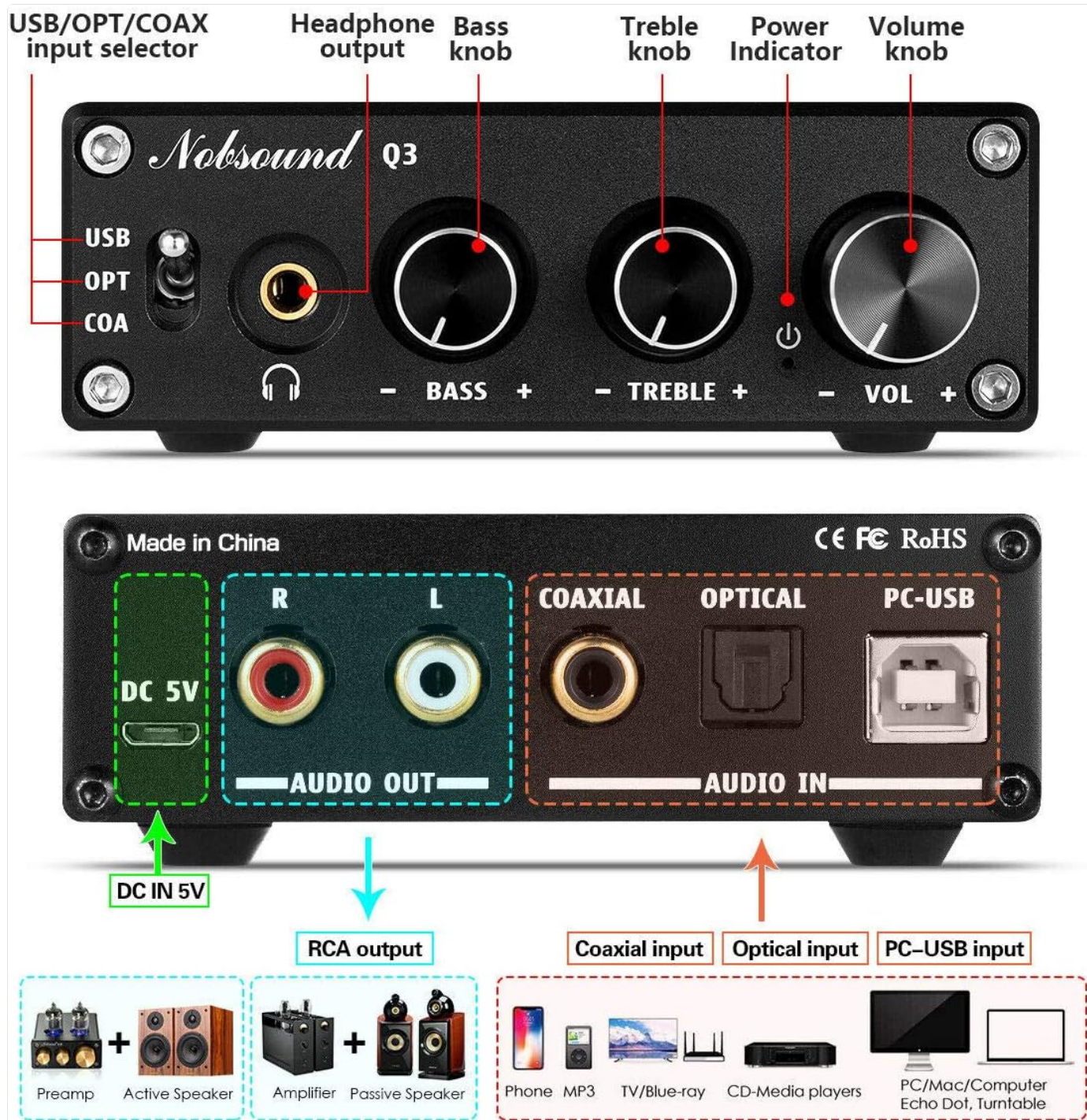


Image: A detailed diagram showing the labeled front and rear panels of the Nobsound Q3 DAC, highlighting all input/output ports and control knobs.

5. SETUP AND CONNECTIONS

Follow these steps to connect your Nobsound Q3 DAC to your audio system:

1. **Power Connection:** Connect the provided USB cable to the DC 5V input on the rear panel of the Q3. Plug the other end into a 5V USB power adapter (not included) or a USB port on your computer.
2. **Output Connection:**
 - **RCA Output:** Connect the RCA L/R outputs on the Q3 to the analog audio inputs of your amplifier, active speakers, or receiver using RCA cables.
 - **Headphone Output:** Plug your headphones into the 3.5mm headphone jack on the front panel.
3. **Input Connection (Choose one):**

- **PC-USB Input:** Connect the provided USB data cable from the PC-USB port on the Q3 to a USB port on your computer. The Q3 is plug-and-play and does not require drivers for Windows XP/7/8/10, MAC, or Linux.
- **Optical Input:** Connect an optical cable from your digital audio source (e.g., TV, game console, CD player) to the Optical input on the Q3.
- **Coaxial Input:** Connect a coaxial cable from your digital audio source to the Coaxial input on the Q3.



PC-USB IS PLUG-AND-PLAY

No need for any driver, it can process digital audio at any bit depth up to 24 bits and any sample rate to 96 KHz with high signal-to-noise ratio and low distortion.

Image: The Nobsound Q3 DAC connected to a laptop via its PC-USB input, illustrating its plug-and-play functionality for computer audio.

6. OPERATING INSTRUCTIONS

1. **Power On:** Once connected, the power indicator light on the front panel will illuminate, indicating the unit is powered on.
2. **Select Input:** Use the input selector switch on the front panel to choose your desired audio source (USB, OPT, or COA).
3. **Adjust Volume:** Rotate the "VOL" knob clockwise to increase the volume and counter-clockwise to decrease it. This knob controls both the headphone and RCA outputs.

4. Adjust Tone (Treble & Bass):

- Rotate the "TREBLE" knob to adjust the high-frequency response.
- Rotate the "BASS" knob to adjust the low-frequency response.



TREBLE AND BASS CONTROL

Not only with volume control knob that can adjust both the headphones and RCA output, but with treble and bass control which is specially designed for audiophile to enjoy much delicate and smooth HiFi sound.

Image: The Nobsound Q3 DAC with emphasis on its Treble and Bass control knobs, allowing for fine-tuning of audio output.

5. **Using as Headphone Amplifier:** The Q3 features a high-performance headphone output designed to drive headphones with impedances ranging from 16Ω to 200Ω. Simply plug your headphones into the 3.5mm jack and adjust the volume.



Image: A user wearing headphones connected to the Nobsound Q3 DAC, demonstrating its function as a dedicated headphone amplifier.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No sound output.	Incorrect input selected. Volume too low. Cables not connected properly. Source device not playing audio.	Ensure the input selector matches your source. Increase the "VOL" knob. Check all audio and power cables for secure connections. Verify audio playback on the source device.

Problem	Possible Cause	Solution
Distorted or poor sound quality.	Input signal too strong. Cables are faulty. Treble/Bass settings are extreme.	Reduce the volume on the source device. Try different cables. Adjust Treble/Bass knobs to a neutral position or to your preference.
PC-USB not recognized.	USB cable issue. Computer USB port issue.	Try a different USB cable. Try a different USB port on your computer. Restart your computer.
Power indicator not on.	No power supply. Faulty USB power cable/adapter.	Ensure the 5V DC power is connected. Try a different USB power cable or adapter.

8. SPECIFICATIONS

Parameter	Value
PC-USB Input Sampling Frequency	96K/24Bit
Optical/Coaxial Input Sampling Frequency	192K/24Bit
Frequency Range	20Hz-20KHz (±3dB)
PC-USB System Supported	XP/W7/W8/W10/MAC/Linux
Bass & Treble Range	±6dB
SNR (Signal-to-Noise Ratio)	≥105dB
THD (Total Harmonic Distortion)	0.01%
RCA Output Level	2.3V
Headphone Matching Impedance	16-200Ω
Headphone Max Power Output	100mw (32Ω load)
Working Voltage	DC 5V
Dimensions (L*W*H)	73*98*33 mm / 2.87*3.86*1.3 in
Net Weight	200 g / 0.44 lb
Material	Aluminum

PACKING LIST

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USB Data Cable



Optical Cable



USB Cable

Image: A diagram illustrating the precise dimensions (length, width, height) and weight of the Nobsound Q3 DAC unit.

Internal Chipset:

The Nobsound Q3 utilizes a high-performance chip combination for superior audio quality:

- **SA9023:** USB chip
- **CS8412:** DAC chip
- **97220:** Headphone amp chip
- **NE5532:** Op amp (for treble and bass effects)

SA9023+CS8412+97220+NE5532

Adopting high-end chip combination SA9023 USB chip+CS8412 DAC chip+97220 headphone amp chip to achieve better sound quality, and NE5532 op amp which uses analog circuit design to greatly improve treble and bass sound effects.

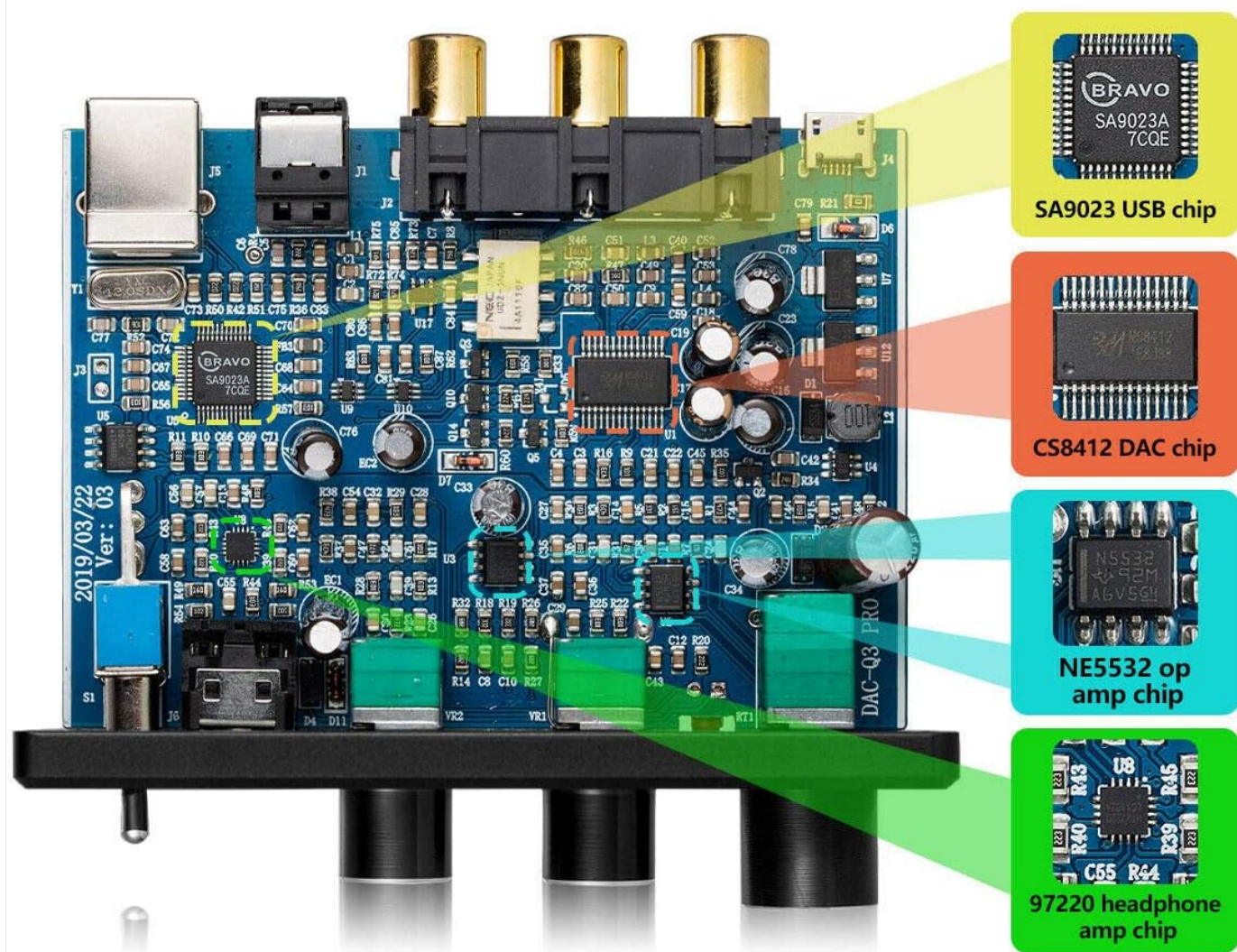


Image: An internal view of the Nobsound Q3's circuit board, highlighting the key audio chips: SA9023 USB chip, CS8412 DAC chip, 97220 headphone amp chip, and NE5532 op amp.

9. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Do not use liquid cleaners or aerosols.
- **Storage:** When not in use for extended periods, store the unit in a cool, dry place away from direct sunlight and dust.
- **Handling:** Handle the unit with care to avoid physical damage.

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the Nobsound official website or contact your retailer. Keep your purchase receipt as proof of purchase for any warranty claims.

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

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