

FiiO RETRO NANO

FiiO/Snowsky Retro Nano Bluetooth USB DAC AMP User Manual

Model: RETRO NANO

Product Information and Usage Guide

1. INTRODUCTION

The FiiO/Snowsky Retro Nano is a versatile portable Bluetooth USB DAC (Digital-to-Analog Converter) and AMP (Amplifier) designed to deliver high-fidelity audio on the go. It combines a nostalgic retro aesthetic with modern audio technologies, offering a unique and high-quality listening experience. This manual provides detailed instructions for setting up, operating, and maintaining your Retro Nano device.



Figure 1: Front view of the Fiio/Snowsky Retro Nano in blue.

2. KEY FEATURES

- **Dynamic Retro UI:** Features interactive UIs and a design replicating a classic cassette player for a nostalgic user experience.
- **Replaceable Battery:** Utilizes a detachable, rechargeable 3.7V lithium battery, providing up to 7.5 hours of continuous playback. Easily replaceable for extended lifespan.
- **Custom Sound Effects:** Includes 8 custom-tuned retro-inspired sound effects. Supports DIY tuning via app and web interface for personalized audio.
- **Versatile Connectivity:** Connects to smartphones, tablets, and computers via Bluetooth and Type-C data cable. Supports 96kHz high-definition audio quality in both Bluetooth and wired modes.
- **Advanced Bluetooth Codecs:** Bluetooth connectivity supports LDAC, aptX Adaptive, and aptX LL for enhanced listening.
- **High-Performance DACs:** Equipped with two high-performance DACs, delivering a balanced output power of up to 220mW for superior audio performance.



Figure 2: FiiO Retro Nano in blue and white, showcasing design.

3. PACKAGE CONTENTS

Please check the package to ensure all items are present:

- FiiO/Snowsky Retro Nano Unit
- Type-C to Type-C Data Cable
- 3.7V 450mAh Lithium Battery (pre-installed or included separately)
- Battery Storage Case
- Lanyard
- Quick Start Guide
- Warranty Card
- Stickers
- Warning Card

Parts list

- ①----- RETRO NANO*1
- ②----- Type-C to Type-C data cable*1
- ③----- Battery*1
- ④----- Battery storage case*1
- ⑤----- Lanyard*1
- ⑥----- Quick start guide*1
- ⑦----- Warranty card*1
- ⑧----- Sticker*2
- ⑨----- Warning card*1



Figure 3: Contents of the FiiO Retro Nano package.

4. SETUP

4.1 Battery Installation and Charging

1. If the battery is not pre-installed, open the battery compartment cover on the back of the device.
2. Insert the provided 3.7V 10440 lithium battery, ensuring correct polarity. The battery should have a flat terminal for proper fit.
3. Close the battery compartment cover securely.
4. Connect the Retro Nano to a power source (e.g., computer USB port, USB wall adapter) using the supplied Type-C data cable. The device will begin charging. The screen will indicate charging status.
5. A full charge provides up to 7.5 hours of playback. The device can also be used while connected to a USB power source, even without a battery installed.

Specially tuned retro sound presets

Sound of past eras

Included are 8 sound presets, including retro-sounding presets that give off the sound of past eras;

Supports DIY tuning on the companion app or on the web, allowing you to easily tune to your own musical style!



Figure 4: Battery compartment and USB charging connection.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

- To power on, slide the dedicated power switch to the ON position.
- To power off, slide the dedicated power switch to the OFF position.

5.2 Connectivity Modes (Bluetooth / Wired)

The Retro Nano supports both Bluetooth wireless and USB wired connections.

- **Bluetooth Mode:** For wireless audio streaming from smartphones, tablets, or other Bluetooth-enabled devices.
- **Wired Mode (PC/Phone):** Connects via the Type-C data cable to computers (PC mode) or smartphones/tablets (Phone mode) to function as an external DAC/AMP.

5.3 Switching Between Modes

Double-press the multi-function button (usually the play/pause button) to cycle between Bluetooth

(BT), Computer (PC), and Phone (PH) modes. The current mode will be displayed on the screen.

Getting to the heart of music Thanks to a great “core”

It is equipped with a Qualcomm QCC5125 that allows support for Bluetooth 5.1 as well as the LDAC/aptX Adaptive/aptX LL audio codecs.

96kHz high-res audio is possible in both Bluetooth and wired modes for noticeably improved sound.

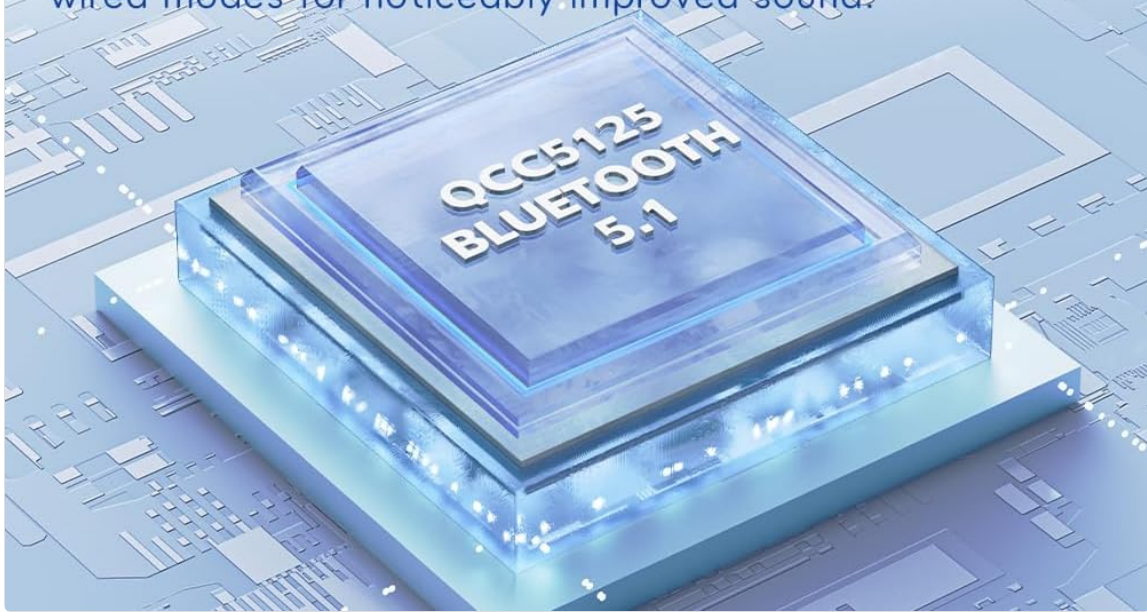


Figure 5: Mode selection screen.

5.4 Bluetooth Pairing

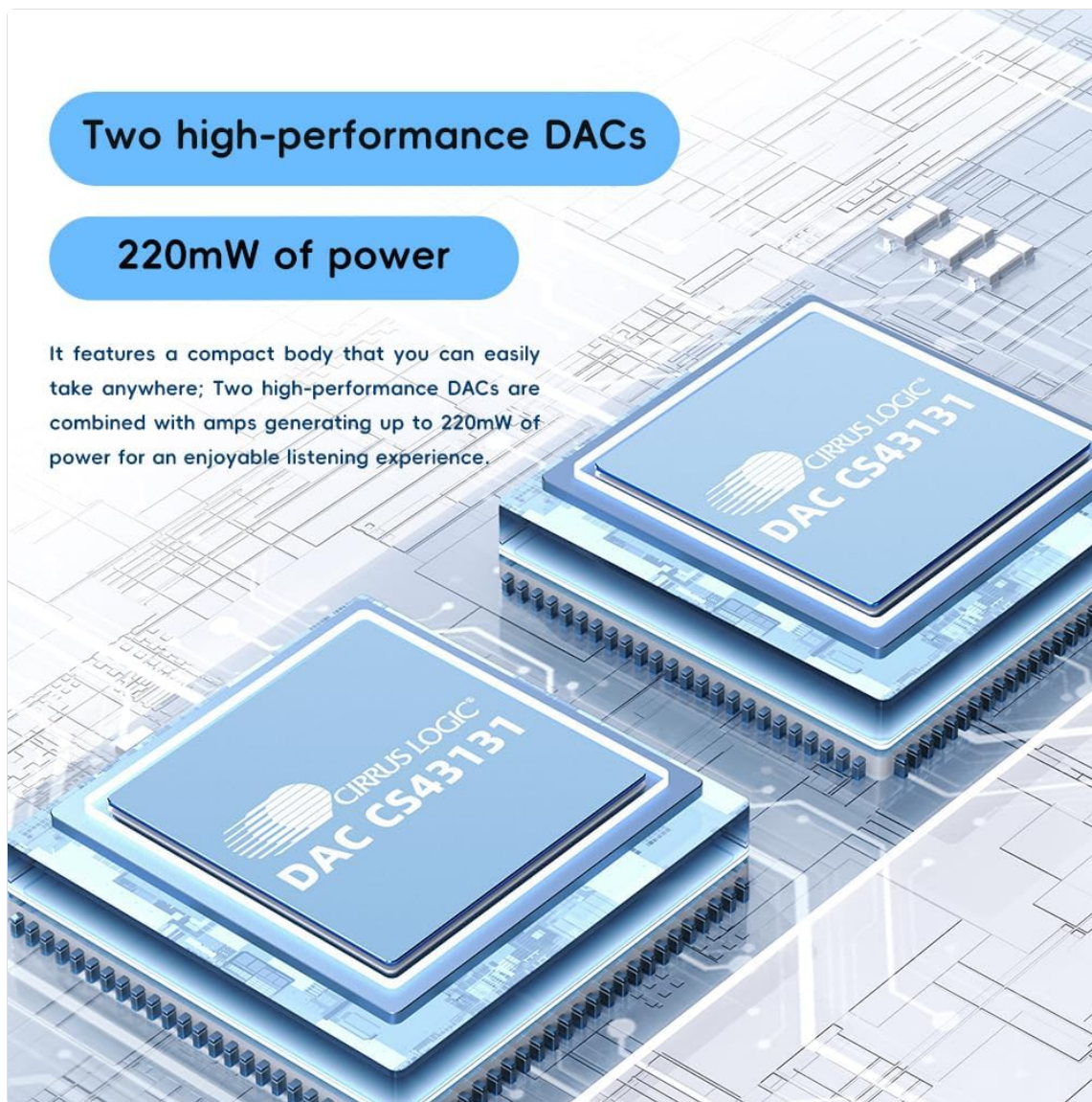
1. Ensure the Retro Nano is in Bluetooth (BT) mode. If not, double-press the multi-function button to switch.
2. The device will automatically enter pairing mode when first powered on in BT mode or if no device is connected. You can also manually enter pairing mode by pressing and holding the Bluetooth button (refer to the quick start guide for exact button location).
3. On your source device (smartphone, tablet), go to Bluetooth settings and search for available devices.
4. Select "FiiO Retro Nano" from the list to connect.
5. Once paired, the screen will indicate the connected status and the active Bluetooth codec (e.g., LDAC, aptX Adaptive).

5.5 Sound Effects and Equalizer (EQ)

The Retro Nano includes 8 pre-tuned retro sound presets. Additionally, it supports DIY tuning via a companion app or web interface.

- To access and switch between the built-in sound presets, use the designated controls on the device (refer to the quick start guide).

- For advanced EQ customization, download the official FiiO control app or access the web interface. Ensure the EQ switch on the device is in the ON position to allow app/web control.



Two high-performance DACs

220mW of power

It features a compact body that you can easily take anywhere; Two high-performance DACs are combined with amps generating up to 220mW of power for an enjoyable listening experience.

Figure 6: Sound preset selection on screen.

5.6 Volume Control

Use the volume up (+) and volume down (-) buttons on the device to adjust the output volume. The volume level will be displayed on the screen.

6. MAINTENANCE

- Keep the device clean by wiping it with a soft, dry cloth. Avoid using harsh chemicals or abrasive materials.
- Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- When not in use for extended periods, fully charge the battery before storage and recharge it every few months to maintain battery health.
- Protect the device from drops and impacts.

7. TROUBLESHOOTING

- **Device not powering on:** Ensure the battery is charged or the device is connected to a power source via USB. Check the power switch position.
- **Cannot pair via Bluetooth:** Ensure the device is in Bluetooth mode and pairing mode (indicated by flashing Bluetooth icon). Clear previous pairings on your source device and try again. If issues persist, try resetting the Retro Nano (refer to quick start guide for reset procedure).
- **No sound or low volume:** Check headphone connections (3.5mm or 4.4mm). Ensure volume is turned up on both the Retro Nano and the source device. Verify the correct input mode (BT/PC/PH) is selected.
- **USB Audio Bit Depth (16-bit on PC):** While the device supports 32-bit audio over Bluetooth (LDAC), some operating systems (e.g., Windows) may default to 16-bit over USB. This is often a driver or OS limitation rather than a device fault. Check for updated drivers from FiiO's official website or adjust audio settings on your computer.
- **EQ feature not working via app/web:** Ensure the physical EQ switch on the Retro Nano is in the ON position to enable external control.

8. SPECIFICATIONS

Feature	Description
Model Name	RETRO NANO
Connectivity Technology	Bluetooth, USB Type-C
Wireless Communication Technology	Bluetooth 5.0 (LDAC, aptX Adaptive, aptX LL)
Headphones Jack	3.5 mm Unbalanced, 4.4 mm Balanced
DAC Chipset	Dual Cirrus Logic CS43131
Bluetooth Chipset	Qualcomm QCC5125
Output Power	Up to 220mW (Balanced Output)
Battery Life	Up to 7.5 hours
Battery Type	Replaceable 3.7V Lithium Ion (10440)
Frequency Range	20Hz - 20,000Hz
Compatible Devices	Smartphones, Tablets, Computers
Item Weight	3.52 ounces

Dimensions

4.33 x 3.54 x 1.54 inches (Package)

Bluetooth/wired modes Easily switch between multiple devices

Simply power it on with a single touch. It supports connections with phones, tablets, computers, and other devices via Bluetooth and a USB Type-C data cable.

Double press the multi-function button to easily switch between Bluetooth (BT), computer (PC), and PHONE modes.

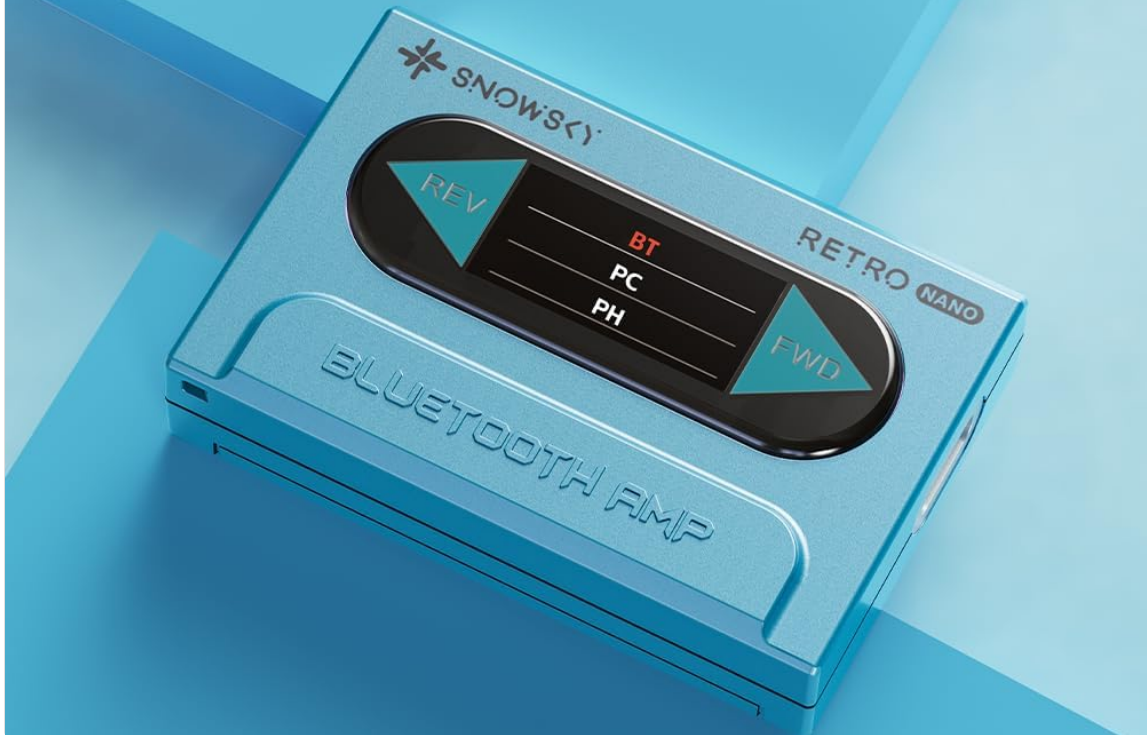


Figure 7: Dual DAC architecture.

The replaceable and rechargeable 3.7V lithium battery lasts up to 7.5 hours on a single charge;

Endless usage even without a battery

The USB port provides independent power, making it easy to activate the device. Just plug and play!



*Comes with one randomly FiiO custom high-capacity 3.7V 450mAh lithium battery.

Figure 8: Qualcomm QCC5125 Bluetooth chip.

9. WARRANTY AND SUPPORT

FiiO provides comprehensive support for its products. For warranty information, technical assistance, or further inquiries, please refer to the warranty card included in your package or visit the official FiiO website.

You can also visit the FiiO Store on Amazon for product information and support: [FiiO Amazon Store](#)