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› **iFi NEO iDSD 2 - Lossless Bluetooth 5.4 DAC/Amp with aptX Lossless 1,200kbps - PCM 32-bit 768kHz/DSD 512-5551mW Power, XBass II, XSpace, iFi Nexis App OTA Update, MQA Decoder User Manual**

iFi NEOIDSD2

iFi NEO iDSD 2 User Manual

Lossless Bluetooth 5.4 DAC/Amp with aptX Lossless

1. INTRODUCTION

Thank you for purchasing the iFi NEO iDSD 2. This device is a high-performance Digital-to-Analogue Converter (DAC) and Headphone Amplifier designed to deliver exceptional audio quality from various digital and analogue sources. With advanced features like Bluetooth 5.4 with aptX Lossless, XBass II, and XSpace, the NEO iDSD 2 provides a customizable and immersive listening experience.

2. PRODUCT OVERVIEW

The iFi NEO iDSD 2 combines cutting-edge technology with versatile functionality. It can operate as a dedicated DAC, a DAC/preamplifier, or a powerful headphone amplifier. Key features include:

- **Lossless Bluetooth 5.4:** Supports aptX Lossless for uncompromised wireless audio.
- **High-Resolution Audio:** PCM up to 32-bit/768kHz and DSD 512.
- **Powerful Output:** 5551mW output for driving a wide range of headphones.
- **Analogue Processing Modes:** XBass II and XSpace for enhanced bass and soundstage.
- **PureWave Circuit Design:** Ensures minimal distortion and maximum clarity.
- **iFi Nexis App:** For easy control and firmware updates.

2.1. Front Panel Controls and Display

The front panel features a clear display, a multi-function rotary knob for volume and menu navigation, and dedicated buttons for input selection, XSpace, and XBass II functions. The headphone outputs (6.3mm and 4.4mm balanced) are also located here.

2.2. Rear Panel Connections

Figure 2.2: Rear view of the iFi NEO iDSD 2, detailing the comprehensive array of input and output ports including balanced XLR, RCA, Coaxial, Optical, USB, and DC power input.

The rear panel provides a wide array of connectivity options, including balanced XLR and RCA analogue outputs, coaxial, optical, and USB digital inputs, an analogue input, and the DC power input. This allows for flexible integration into various audio systems.

2.3. Remote Control

Figure 2.3: The dedicated remote control for the iFi NEO iDSD 2, offering convenient access to power, volume, input selection, playback controls, and sound modes like XBass II and XSpace.

A full-function remote control is included for convenient operation from a distance, allowing control over power, volume, input selection, playback, and sound modes.

3. SETUP

Follow these steps to set up your iFi NEO iDSD 2:

1. **Placement:** Place the NEO iDSD 2 on a stable, flat surface. It can be oriented horizontally or vertically using the included stand.

2. **Power Connection:** Connect the supplied DC 9V/1.5A power adapter to the DC input on the rear panel and then to a power outlet.

3. **Source Connection:** Connect your audio source(s) to the appropriate digital inputs (USB, Coaxial, Optical) or the analogue input on the rear panel.

4. **Output Connection:** Connect the NEO iDSD 2 to your amplifier, active speakers, or headphones.

   - For balanced output, use the XLR outputs.
   - For single-ended output, use the RCA outputs.
   - For headphones, connect to the 6.3mm (single-ended) or 4.4mm (balanced) headphone jacks on the front panel.

5. **Initial Power On:** Press the power button on the front panel or remote control to turn on the device.

3.1. Connection Diagram

Figure 3.1: A comprehensive diagram illustrating how to connect various audio sources and outputs to the iFi NEO iDSD 2, including headphones, amplifiers, and digital/analogue inputs.

4. OPERATING INSTRUCTIONS

4.1. Power On/Off

Press the power button on the front panel or the remote control to turn the unit on or off. The display will illuminate upon power-on.

4.2. Input Selection

Use the input selection button on the front panel or the remote to cycle through available inputs: USB, Coaxial, Optical, Bluetooth, and Analogue. The selected input will be shown on the display.

4.3. Volume Control

Rotate the large knob on the front panel or use the volume +/- buttons on the remote to adjust the output volume. The volume level is displayed numerically. **Caution:** Always start with a low volume level and gradually increase it to a comfortable listening level to prevent hearing damage or damage to connected equipment.

4.4. XBass II and XSpace

These analogue processing modes can be activated via their dedicated buttons on the front panel or remote control. They enhance the audio experience without digital manipulation:

- **XBass II:** Provides a deeper, more impactful bass response.
- **XSpace:** Expands the soundstage, creating a more spacious and immersive listening experience, especially beneficial for headphone listening.

4.5. Digital Filters

The NEO iDSD 2 offers four digital filter options to fine-tune the sound signature. These can typically be accessed through the menu system via the rotary knob or the iFi Nexis App. Refer to the app or on-screen menu for specific filter descriptions and selection.

4.6. iFi Nexis App

Download the iFi Nexis App from your device's app store to unlock additional control and customization options, including firmware updates (OTA), advanced settings, and remote control functionality. Ensure your NEO iDSD 2 is connected to a 2.4GHz Wi-Fi network for app functionality and updates.

5. MAINTENANCE

To ensure the longevity and optimal performance of your iFi NEO iDSD 2, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior. Avoid abrasive cleaners or solvents.
- **Ventilation:** Ensure adequate airflow around the unit. Do not block ventilation openings.
- **Environment:** Keep the device away from excessive heat, humidity, dust, and direct sunlight.
- **Power:** Disconnect the power adapter if the unit will not be used for an extended period.

6. TROUBLESHOOTING

If you encounter issues with your iFi NEO iDSD 2, please refer to the following common problems and solutions:

Problem	Possible Cause / Solution
No sound output	- Ensure the correct input is selected. - Check all cable connections (source, output, headphones). - Verify the volume level is not set to minimum or muted. - If using line out, ensure the line out volume control is enabled if desired (check iFi Nexis App or device settings).
Distorted or poor sound quality	- Check source audio quality. - Ensure cables are securely connected and not damaged. - Try different digital filters. - Ensure the sample rate matches the source.
Bluetooth connection issues	- Ensure the NEO iDSD 2 is in Bluetooth pairing mode. - Move the source device closer to the NEO iDSD 2. - Clear previous Bluetooth pairings on both devices and try again.
Unit does not power on	- Verify the power adapter is correctly connected to the unit and a working power outlet. - Check if the power outlet is functional.

Problem	Possible Cause / Solution
Firmware update issues via iFi Nexis App	- Ensure your device running the app is connected to a 2.4GHz Wi-Fi network. - Verify the NEO iDSD 2 is connected to the same network. - Restart both the app and the NEO iDSD 2.

If the problem persists, please contact iFi support for further assistance.

7. SPECIFICATIONS

Feature	Detail
Product Dimensions	1.85 x 3.54 x 8.07 inches
Item Weight	4.44 pounds
Item Model Number	NEOIDSD2
Digital Inputs	USB 3.0 B (USB2.0 compatible), S/PDIF (Coaxial/Optical), Bluetooth 5.4
Analogue Inputs	1 x 3.5mm Single-Ended
Analogue Outputs	Balanced XLR, RCA
Headphone Outputs	4.4mm Balanced, 6.3mm Single-Ended
Max Output Power	5551mW
Supported Audio Formats	PCM 32-bit/768kHz, DSD 512, MQA Decoder
Bluetooth Codecs	aptX Lossless, aptX Adaptive, aptX, LDAC, HWA/LHDC, AAC, SBC
Manufacturer	Abbingdon Music Research
Date First Available	September 22, 2023

8. WARRANTY AND SUPPORT

The iFi NEO iDSD 2 comes with a manufacturer's warranty. Please refer to the warranty card included with your product for specific terms and conditions, including coverage period and limitations. For technical support, troubleshooting assistance beyond this manual, or warranty claims, please contact iFi Audio customer service through their official website or the contact information provided in your product packaging.
For the latest information, firmware updates, and support resources, visit the official iFi Audio website ifi-audio.com