

iFi 4336299358

iFi Audio xDSD Bluetooth DAC and Headphone Amp User Manual

Model: 4336299358

1. INTRODUCTION

The iFi Audio xDSD is a high-resolution portable Digital-to-Analog Converter (DAC) and headphone amplifier designed to elevate your audio experience. It supports a wide range of audio formats, including PCM up to 768kHz, DSD up to 512, and MQA, ensuring compatibility with the latest high-fidelity music. With its powerful headphone amplification and versatile connectivity options, the xDSD delivers exceptional sound quality for both wired and wireless listening.

This manual provides detailed instructions for setting up, operating, and maintaining your iFi Audio xDSD to ensure optimal performance and longevity.

2. PACKAGE CONTENTS

Please verify that all items are present in your product package:

- iFi Audio xDSD Unit
- USB 3.0 Cable (Blue)
- USB-A to USB-B Adapter
- USB-A to USB-C Adapter
- Optical Adapter
- Velcro Strips (for attaching to devices)
- Soft Carrying Pouch
- Quick Start Guide
- Warranty Card



Figure 4.1: xDSD Front Panel

- **Volume Knob / Power Button:** Rotates to adjust volume. Press and hold for 2 seconds to power on/off. Quick press to mute/unmute.
- **3.5mm Headphone Output:** Connect your headphones here.
- **Input LEDs (kHz):** Indicates the current sampling rate and input mode.
- **3D+ Button:** Activates/deactivates the 3D+ soundstage enhancement.
- **XBass+ Button:** Activates/deactivates the XBass+ bass enhancement.

4.2 Rear Panel



Figure 4.2: xDSD Rear Panel

- **S/PDIF Input:** For connecting optical or coaxial digital audio sources.
- **USB-A Input:** For connecting to computers or mobile devices via USB.

- **Micro USB (5V) Power Input:** For charging the device.
- **Filter Switch (Measure/Listen):** Selects between two digital filter modes. 'Measure' provides a more technically accurate sound, while 'Listen' offers a more natural and musical presentation.

5. SETUP

5.1 Charging the xDSD

Before first use, fully charge the xDSD. Connect the supplied USB cable to the Micro USB (5V) port on the rear panel and plug the other end into a USB power adapter (not included) or a computer's USB port. The LED indicator will show charging status.

5.2 Connecting to a Source Device

The xDSD offers multiple input options:

- **USB Connection (Computers/Smartphones):** Use the supplied USB cable and appropriate adapters to connect the xDSD's USB-A input to your computer or smartphone. Ensure your device's audio output is set to the xDSD.
- **Bluetooth Connection:** For wireless audio, ensure the xDSD is in Bluetooth mode (see Section 6.2). Pair it with your Bluetooth-enabled device.
- **S/PDIF Connection:** Use an optical or coaxial cable (not included) to connect your digital audio source to the S/PDIF input.



Figure 5.1: xDSD Connectivity Options

5.3 Connecting Headphones

Plug your headphones into the 3.5mm headphone output on the front panel of the xDSD.



Figure 5.2: xDSD connected to a smartphone and headphones.

6. OPERATING INSTRUCTIONS

6.1 Power On/Off and Volume Control

- **Power On/Off:** Press and hold the volume knob for approximately 2 seconds. The LED around the volume knob will illuminate.
- **Volume Adjustment:** Rotate the volume knob clockwise to increase volume and counter-clockwise to decrease volume.
- **Mute/Unmute:** Briefly press the volume knob to mute or unmute the audio output.

6.2 Switching Input Modes

To switch between USB, S/PDIF, and Bluetooth inputs:

- Power off the xDSD.
- Press and hold the volume knob for approximately 4 seconds. The input LED will cycle through the available modes. Release the button when the desired mode is indicated.

6.3 Bluetooth Pairing

When in Bluetooth mode:

- Press and hold the XBass+ / 3D+ button for 2 seconds to enter pairing mode. The Bluetooth LED will flash.
- On your source device (e.g., smartphone), search for Bluetooth devices and select 'iFi xDSD' to pair.
- Once paired, the Bluetooth LED will remain solid.

6.4 Using 3D+ and XBass+

- **3D+:** Press the 3D+ button to activate or deactivate the soundstage enhancement. This feature aims to create a more spacious and immersive listening experience.
- **XBass+:** Press the XBass+ button to activate or deactivate the bass enhancement. This feature provides a deeper and more impactful bass response without muddying the mid-range.

6.5 Digital Filter Selection

The xDSD features a 'Measure/Listen' switch on the rear panel:

- **Measure:** This filter provides a more linear frequency response, ideal for critical listening and audio analysis.
- **Listen:** This filter offers a slightly warmer and more natural sound signature, often preferred for general music enjoyment.

7. MAINTENANCE

- **Cleaning:** Use a soft, dry, lint-free cloth to clean the surface of the xDSD. Avoid using abrasive cleaners or solvents.
- **Storage:** When not in use for extended periods, store the device in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Handling:** Handle the xDSD with care. Avoid dropping it or subjecting it to strong impacts.
- **Battery Care:** For optimal battery life, avoid fully discharging the battery frequently. If storing for a long time, charge it to about 50% every few months.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Battery is depleted.	Connect the xDSD to a USB power source and allow it to charge for at least 30 minutes before attempting to power on.
No sound output.	Incorrect input selected. Volume is too low or muted. Headphones not properly connected. Source device not playing audio or outputting to xDSD.	Verify the correct input mode is selected (USB, Bluetooth, S/PDIF). Increase volume or unmute the device. Ensure headphones are fully plugged into the 3.5mm jack. Check audio playback on your source device and confirm it's outputting to the xDSD.
Bluetooth pairing issues.	xDSD not in pairing mode. Previous pairing conflict. Source device Bluetooth issues.	Ensure xDSD is in Bluetooth mode and press/hold the XBass+/3D+ button for 2 seconds to enter pairing mode. On your source device, 'forget' or 'unpair' the xDSD and attempt to pair again. Restart your source device's Bluetooth function or the device itself.
Hissing or static noise.	Interference from other devices. Ground loop issues. High sensitivity headphones.	Move the xDSD away from other electronic devices. Try a different USB port or power adapter. Some highly sensitive headphones may exhibit a slight hiss, especially at very low volumes. This is often normal for high-gain amplifiers.

9. SPECIFICATIONS

xDS*D*

The **xDS*D*** is a next generation wireless portable DAC and headphone amplifier, supporting high-resolution PCM768/DSD512 and the latest MQA formats. With more than 500mW of power per channel and full analogue volume control, the **xDS*D*** is a major sonic step up for all smartphones, digital audio players and computers.

Features:

- Burr-Brown Hi-Res True Native DSD DAC chipset for discerning listeners
- Dual-mono headphone amplifier with 500mW of power per channel, it can unleash the full potential of both 32ohm and 600ohm headphones
- Hi-Res audio up to PCM768kHz & DSD512
- MQA ready for playing back all High-res MQA encoded files (Renderer)
- Wireless Bluetooth (aptX and AAC) for CD quality wireless sound
- S-Balanced compatible 3.5mm headphone output brings the benefits of the balanced connection to Single-Ended headphones
- Advanced Analogue Signal Process(ASPI) 3D+* and XBass+* headphone optimization circuits
- Pure Analogue Volume Control retaining full-resolution at all volume levels
- Audiophile Digital Filter 'Measure/Listen' selectable
- Large 2200mAh Lithium-Polymer battery provides 6-8 hours of playing time
- Extruded Magnesium-Aluminum body with 6mm machined front plate



Formats supported:

DSD	512x/256x/128x/64x (24.6/22.6/12.4/11.2 /6.2/5.6/3.1/2.8MHz)
DXD2x	768/705.6kHz
DXD	384/352.8kHz
PCM	192/176.4/96/88.2/48/44.1kHz
MQA	384/352.8kHz

Specifications

USB Input:	up to PCM768kHz & DSD512 (24.6/22.6MHz)
S/PDIF Coaxial and Optical Inputs:	up to 192kHz/24Bit
Dynamic Range:	>113dB (A)
Volume Adjustment:	-101dB...0dB in 1dB steps
Output power:	>2.82V/500 mW @ 16 Ohm >3.7V/270 mW @ 50 Ohm >3.8V/48 mW @ 300 Ohm >3.8V/24 mW @ 600 Ohm
Line out Level:	>2.1V @ 0dBFS
THD & N (1V/16R):	<0.005%
Output Impedance:	<2 Ohm
Battery:	3.8V/2200mAh
Dimensions:	95 x 7 x 19 mm 3.8" x 2.6" x 0.7"
Weight:	127 g (0.28 lbs)
Warranty period:	12 months S/N

*Specifications are subject to change without notice.






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Ver1.5

Figure 9.1: xDSD Technical Specifications

Feature	Detail
Model Number	4336299358
Dimensions (L x W x H)	3.74 x 2.6 x 0.75 inches (95 x 67 x 19 mm)
Weight	4.5 ounces (127 g)
Output Power	0.5 Watts (500mW)
Number of Channels	2
Battery Type	Lithium Polymer
Battery Life	Up to 10 hours
Supported Formats (USB)	PCM 768kHz / DSD512 / DXD / MQA
Supported Formats (S/PDIF)	PCM 192kHz / DSD64 (DoP)

Feature	Detail
Bluetooth Codecs	aptX, AAC
Material	Magnesium-Aluminum Alloy

10. WARRANTY AND SUPPORT

10.1 Warranty Information

The iFi Audio xDSD comes with a 12-month limited warranty from the date of purchase. This warranty covers manufacturing defects and workmanship under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or natural disasters.

Please retain your proof of purchase for warranty claims.

10.2 Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please visit the official iFi Audio website or contact their customer support team. Contact details can typically be found on the iFi Audio website or on the warranty card included with your product.