LOXJIE D60

LOXJIE D60 DAC and Headphone Amplifier User Manual

Model: D60

1. Introduction

The LOXJIE D60 is a high-performance full-balance DAC and headphone amplifier designed to deliver exceptional audio quality. Featuring the ES9039MSPRO DAC chip and XMOS XU316, it supports high-resolution audio formats including PCM 768kHz/32bit, DSD512, and MQA. This device also incorporates a powerful balanced headphone amplifier and Bluetooth 5.1 connectivity for versatile audio playback.

Please read this manual thoroughly before operating the device to ensure proper usage and to maximize its performance.

2. Safety Information

- Read all instructions carefully before using the product.
- Do not expose this device to water, moisture, or extreme temperatures.
- Do not attempt to disassemble, repair, or modify the unit. This may result in electric shock or damage to the device.
- Use only the power cable provided with the unit.
- Ensure adequate ventilation around the device to prevent overheating.
- Keep the device away from strong magnetic fields.

3. Package Contents

Verify that all the following items are included in your package:

- 1x LOXJIE D60 Unit
- 1x Power Cable
- 1x Remote Control
- 1x Bluetooth Antenna

- 1x USB A-to-B Cable
- 1x Quick Start Guide (English and Chinese)

4. Product Overview and Parts Identification

Familiarize yourself with the various components and connection ports of your LOXJIE D60.



This image displays the front and rear panels of the LOXJIE D60, highlighting key components and connection ports.

1. Display
2. Operation Knob
3. 6.35mm Unbalanced Headphone Output
4. 4.4mm Balanced Headphone Output
5. XLR Balanced Headphone Output
6. Line (RCA) Output
7. Balanced (XLR) Output

8. AES/EBU Input
9. Bluetooth Antenna Connector
10. I2S Input
11. Optical Input
12. Coaxial Input
13. USB Input
14. Power (100-240V AC)

5. Setup

Follow these steps to set up your LOXJIE D60:



The LOXJIE D60 DAC with its various input and output connections, illustrating a typical setup.

5.1. Power Connection

1. Connect the provided power cable to the AC input (14) on the rear panel of the D60.
2. Plug the other end of the power cable into a suitable AC power outlet (100-240V).

5.2. Audio Source Connection

Choose one of the following input methods:

- **USB Input:** Connect your computer or compatible device to the USB input (13) using the provided USB A-to-B cable. For Windows systems, you may need to install a driver from the official LOXJIE website.
- **Optical Input:** Connect an optical cable from your audio source to the Optical input (11).
- **Coaxial Input:** Connect a coaxial cable from your audio source to the Coaxial input (12).
- **I2S Input:** Connect an I2S source to the I2S input (10).
- **AES/EBU Input:** Connect an AES/EBU source to the AES/EBU input (8).
- **Bluetooth Input:** Screw the Bluetooth antenna onto the Bluetooth antenna connector (9). Enable Bluetooth on your source device and pair with the LOXJIE D60.

5.3. Audio Output Connection

Connect your headphones or amplifier to the D60:

- **Headphones:** Connect your headphones to the 6.35mm unbalanced output (3), 4.4mm balanced output (4), or XLR balanced output (5) on the front panel.
- **External Amplifier/Speakers:** Connect to an external amplifier or active speakers using the Line (RCA) outputs (6) or Balanced (XLR) outputs (7) on the rear panel.

6. Operating Instructions

This section details the basic operation of your LOXJIE D60.



Examples of the LOXJIE D60's user interface, demonstrating various display modes and settings.

6.1. Power On/Off

Press the power button on the rear panel (14) to turn the unit on or off. The display (1) will illuminate upon power-on.

6.2. Operation Knob (2)

- **Volume Control:** Rotate the knob clockwise to increase volume, counter-clockwise to decrease.
- **Menu Navigation:** Press the knob to enter the menu. Rotate to navigate through options, and press again to select.

6.3. Input Selection

Use the operation knob or the remote control to select your desired audio input (USB, Optical, Coaxial, I2S, AES/EBU, Bluetooth).

6.4. Headphone Output Selection

The D60 features multiple headphone outputs. Ensure your headphones are connected to the appropriate port (3, 4,

or 5).

6.5. Bluetooth Pairing

1. Ensure the Bluetooth antenna is connected.
2. Select Bluetooth as the input source on the D60.
3. On your source device (smartphone, tablet, etc.), search for Bluetooth devices and select "LOXJIE D60" to pair.



The LOXJIE D60 unit shown with its remote control and the Bluetooth antenna connected, illustrating wireless connectivity and remote operation.

6.6. Remote Control Functions

The included remote control allows for convenient operation of the D60, including:

- Power On/Off
- Mute
- Input Selection

- Volume Up/Down
- EQ Settings
- Mode Selection
- Display Brightness Adjustment
- Screen Off Function

6.7. User Interface (UI)

The D60 features a newly designed UI with two UI styles and up to seven screen background options. Navigate through the menu using the operation knob or remote control to customize your display preferences.

6.8. Filter Modes

The D60 offers various digital filters to tailor the sound to your preference:

- 7 types of PCM filters
- 4 types of DSD filters

These can be selected via the menu to fine-tune the audio characteristics.

6.9. Gain Settings

The headphone amplifier features high and low gain settings to accommodate various headphone impedances. Adjust the gain level through the menu to match your headphones for optimal performance.

7. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Do not use liquid cleaners or abrasive materials.
- **Storage:** When not in use for extended periods, store the D60 in a cool, dry place away from direct sunlight.
- **Ventilation:** Ensure that the ventilation openings are not blocked to prevent overheating.

8. Troubleshooting

If you encounter any issues with your LOXJIE D60, please refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No power	Power cable not connected properly; Power switch off	Check power cable connection; Ensure power switch (14) is ON
No sound output	Incorrect input selected; Volume too low; Mute function active; Output cable loose	Select correct input; Increase volume; Deactivate mute; Check output cable connections
Distorted sound	Input signal too high; Incorrect sample rate; Faulty cable	Reduce source volume; Verify sample rate settings; Try a different cable
Bluetooth connection issues	Antenna not connected; Device not in pairing mode; Interference	Ensure antenna is connected (9); Re-enter pairing mode; Move closer to source device; Reduce interference

Problem	Possible Cause	Solution
USB driver not recognized (Windows)	Driver not installed or outdated	Download and install the latest driver from the official LOXJIE website.

9. Specifications

Detailed technical specifications for the LOXJIE D60:



A detailed view of the LOXJIE D60's internal components, highlighting the ES9039MSPRO DAC chip and optimized power supply for superior audio performance.

Inputs	USB, Optical, Coaxial, I2S, Bluetooth, AES(EBU)
Outputs	Line (RCA), Balanced Line (XLR), 4.4mm Balanced Headphone, XLR Balanced Headphone, 6.35mm Unbalanced Headphone
Headphone Output Power (Balanced)	6000mW x 2 (16Ω), 3000mW x 2 (32Ω), 700mW x 2 (300Ω), 350mW x 2 (600Ω)
Headphone Output Power (Unbalanced)	3000mW x 2 (16Ω), 1500mW x 2 (32Ω), 350mW x 2 (300Ω), 175mW x 2 (600Ω)
Output Level (Balanced)	5.2Vrms
Output Level (Unbalanced)	2.5Vrms
THD+N (Balanced)	0.00005% (-125dB)
THD+N (Unbalanced)	0.00007% (-123dB)
THD+N (Headphone Amp)	0.00009% (-120dB)
Dynamic Range (Balanced)	132dB
Dynamic Range (Unbalanced)	127dB
Dynamic Range (Headphone Amp)	125dB
SNR (Balanced)	132dB
SNR (Unbalanced)	127dB
SNR (Headphone Amp)	125dB
Output Impedance (Line)	100Ω
Output Impedance (Headphone Amp)	Near 0Ω
High Gain (Headphone Amp)	Balanced +15.5dB, Unbalanced +9dB
Bluetooth Version	BT5.1 (Supports LDAC, APTX, APTX-HD, AAC, SBC, Adaptive)
USB Transmission	Asynchronous
Supported OS (USB)	Windows 7/8/8.1/10/11, Mac OSX 10.6+, Linux, Android (OTG), iOS (Apple Lightning-USB camera kit)
MQA Decoder	USB, Optical, Coaxial, AES/EBU

MQA-CD Decoder	Optical, Coaxial, AES/EBU
Bit Depth	USB: 16bit/24bit/32bit/1bit; Optical/Coaxial/AES(EBU): 16bit/24bit/1bit
Sampling Rate	USB/I2S: PCM 44.1~768kHz, DSD64, DSD128, DSD256, DSD512 Optical/Coaxial/AES(EBU): 44.1kHz/48kHz/88.2kHz/96kHz/176.4kHz/192kHz/DSD64 (DoP)
Power Consumption	<40W
Standby Power	<0.5W
Dimensions (H x W x D)	46mm x 245mm x 196mm
Weight	1.4 kg

10. Warranty and Support

LOXJIE products are designed and manufactured to the highest quality standards. For warranty information, please refer to the warranty card included with your product or contact your local dealer.

For driver downloads, firmware updates, and additional support resources, please visit the official LOXJIE audio website. The D60 driver can typically be found under the 'SUPPORT - Driver Download' section.

For any further assistance or inquiries, please contact LOXJIE customer support or your authorized reseller.

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