

Topping DX7 Pro

Topping DX7 Pro Headphone Amplifier and DAC User Manual

MODEL: DX7 PRO

1. Introduction

The Topping DX7 Pro is a high-performance digital-to-analog converter (DAC) and headphone amplifier designed for exceptional audio fidelity. It features an ES9038PRO DAC chip, supports high-resolution audio up to DSD1024 and 32bit/768kHz, and includes Bluetooth 5.0 with LDAC for high-quality wireless streaming. This manual provides essential information for setting up, operating, and maintaining your DX7 Pro.

2. Package Contents

Please verify that all items listed below are included in your package:

Contents list

		
①DX7 Pro*1	②6.35mm to 3.5mm connector*1	③Bluetooth antenna*1
		
	④Remote control*1	⑤USB cable*1
		
⑥AC cable*1	⑦User'manual*1	⑧Warranty card*1

The package contents for the Topping DX7 Pro include the main unit, a 6.35mm to 3.5mm connector, a Bluetooth antenna,

a remote control, a USB cable, an AC power cable, a user manual, and a warranty card.

- Topping DX7 Pro Unit
- 6.35mm to 3.5mm Connector
- Bluetooth Antenna
- Remote Control
- USB Cable
- AC Power Cable
- User Manual
- Warranty Card

3. Product Overview

3.1 Front Panel



The front panel of the Topping DX7 Pro features a 6.35mm single-ended headphone output, a 4-pin XLR balanced headphone output, an OLED screen displaying current settings, and a multi-function control knob.

- **Single-end 6.35mm Output:** Standard headphone jack.
- **4 Pin XLR Balanced Output:** For balanced headphones.
- **OLED Screen:** Displays input source, sample rate, volume level, and menu options.
- **Knob:** Multi-function control for volume adjustment, menu navigation, and input selection.
- **Remote Control Receiver:** For infrared remote control commands.

3.2 Rear Panel

A desktop DAC could also accurately restore the scene

DX7 pro uses ESS DAC ES9038PRO chip, with TOPPING elaborate design and adjustment, the distortion is $<0.00010\%$, DNR $<126\text{dB}$, and SNR $<126\text{dB}$, accurately restores each wonderful note to your ears.



The rear panel of the Topping DX7 Pro includes left and right channel analog XLR outputs, left and right channel analog RCA outputs, IIS input, Bluetooth antenna connector, optical input, USB input, coaxial input, AES input, power input, and a power switch with fuse.

- **Left/Right Channel Analog XLR Output:** Balanced audio output for external amplifiers or active speakers.
- **Left/Right Channel Analog RCA Output:** Unbalanced audio output for external amplifiers or active speakers.
- **IIS Input:** For connecting IIS-LVDS compatible sources.
- **Bluetooth Antenna Connector:** For attaching the included Bluetooth antenna.
- **Optical Input:** Digital audio input.
- **USB Input:** For connecting to a computer or other USB audio source.
- **COAX Input:** Coaxial digital audio input.
- **AES Input:** AES/EBU digital audio input.
- **Power Input:** AC power connection.
- **Power Switch:** Main power toggle.
- **Fuse:** Replaceable fuse for power protection.

4. Setup

4.1 Power Connection

Before connecting the power cable, ensure the voltage selector switch on the underside of the unit is set to your local voltage (110V or 220V). Connect the supplied AC power cable to the power input on the rear panel and then to a wall outlet. Use the power switch on the rear panel to turn the unit on or off.

4.2 Input Connections

Connect your audio sources to the appropriate digital inputs on the rear panel (USB, Optical, Coaxial, AES, IIS). For Bluetooth connectivity, screw the provided Bluetooth antenna onto its connector on the rear panel.

4.3 Output Connections

Connect your headphones to either the 6.35mm single-ended or 4-pin XLR balanced output on the front

panel. For connecting to external amplifiers or active speakers, use the XLR or RCA analog outputs on the rear panel.

5. Operating Instructions

5.1 Power On/Off

Toggle the power switch on the rear panel to turn the DX7 Pro on or off.

5.2 Input Selection

Rotate the front panel knob to cycle through available input sources (USB, Optical, Coaxial, AES, IIS, Bluetooth). The selected input will be displayed on the OLED screen.

5.3 Volume Control

Rotate the front panel knob to adjust the volume level. The current volume will be shown on the OLED screen. Press the knob to mute/unmute the output.

5.4 Menu Navigation

Press and hold the front panel knob to enter the menu. Rotate the knob to navigate through menu options and press to select. Refer to the detailed user manual for specific menu settings.

5.5 Bluetooth Pairing

Select Bluetooth as the input source. The DX7 Pro will automatically enter pairing mode. On your device (phone, tablet, computer), search for "Topping DX7 Pro" in the Bluetooth settings and select it to pair. The OLED screen will indicate a successful connection.

6. Key Features

6.1 High-Fidelity DAC Performance



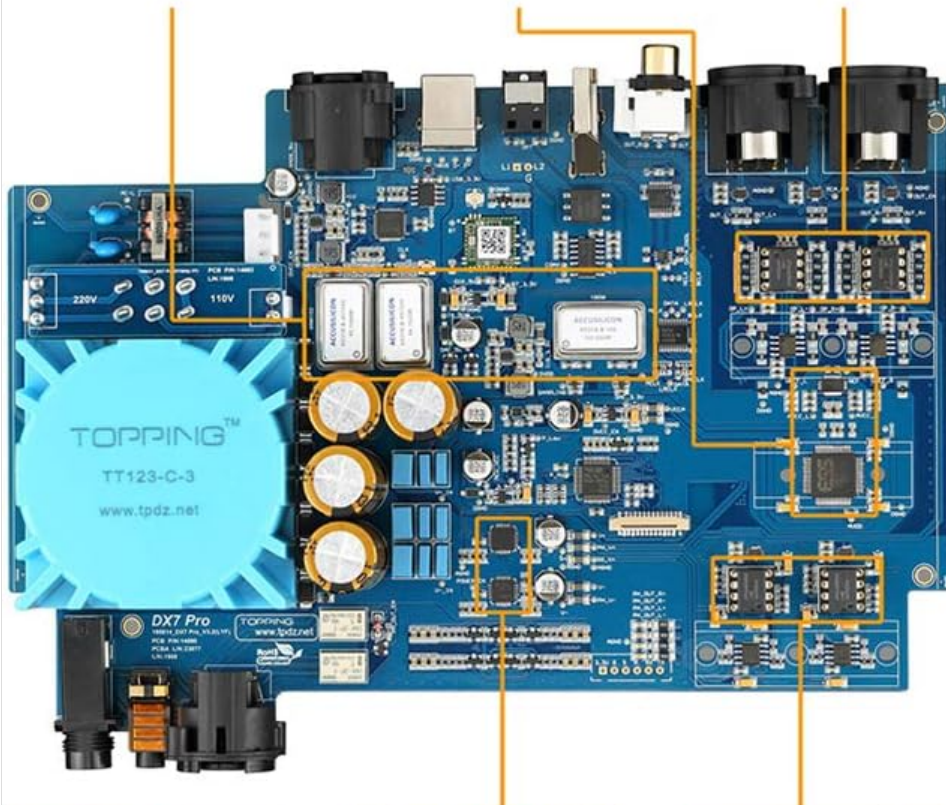
3 x ACCUSILICON
femtosecond



ES9311+ES9038PRO



LME49720 of LPF is
installed on a socket.



nichicon FW series HIFI
capacitance.



TPS7A33 and TPS7A47
ultra low noise linear
regulator.



LME49720 of headphone
amp also installed on a
socket.

The Topping DX7 Pro is shown connected to headphones, demonstrating its function as a high-fidelity desktop DAC. It utilizes the ESS DAC ES9038PRO chip to accurately restore audio scenes with low distortion.

The DX7 Pro incorporates the ESS ES9038PRO DAC chip, known for its high performance. Through careful design and tuning, it achieves a distortion level of less than 0.00010%, a Dynamic Range (DNR) greater than 126dB, and a Signal-to-Noise Ratio (SNR) greater than 126dB, ensuring accurate and detailed audio reproduction.

6.2 Bluetooth 5.0 with LDAC Support

Bluetooth headphone amp/ Bluetooth DAC application

Connect the Bluetooth of your phone, tablet and notebook to DX7 Pro, and connect your amplifier, active speakers or headphones to the DX7 Pro's output, then DX7 Pro becomes your Bluetooth headphone amp/Bluetooth DAC. You can easily enjoy the high quality sound and convenience brought by Bluetooth 5.0. If your device supports LDAC transmission, you will get even better experience.



External high performance DAC for media player, mobile phones and tablets

Bluetooth headphone amp/ Bluetooth DAC application

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External high performance DAC for media player, mobile phones and tablets

This image shows the Topping DX7 Pro operating in Bluetooth mode, highlighting its Bluetooth 5.0 connectivity with LDAC support for high-definition wireless audio. It uses a CSR8675 chipset for stable and high-quality transmission. Equipped with a CSR8675 chipset, the DX7 Pro supports Bluetooth 5.0 and various high-quality codecs including LDAC, AAC, SBC, aptX, aptX LL, and aptX HD. This enables high-definition wireless audio transmission up to 24bit/96kHz, providing a convenient and high-quality listening experience. The Bluetooth input can be disabled via the menu if not required.

6.3 Advanced Internal Design

Bluetooth 5.0, redefining HD wireless audio with LDAC

DX7 Pro uses CSR8675 chipset to support Bluetooth 5.0 and LDAC/AAC/SBC/APTX/APTX LL/APTX HD protocol. DX7 Pro could achieve 24bit 96KHz HD transmission with LDAC, the Bluetooth could have good sound performance from right on. If you do not need the Bluetooth input, you can completely turn it off in the menu.





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An internal view of the Topping DX7 Pro's circuit board, showcasing components such as 3 ACCUSILICON femtosecond

clocks, ES9311+ES9038PRO DAC chip, LME49720 op-amps, Nichicon FW series HiFi capacitance, and TPS7A33/TPS7A47 ultra-low noise linear regulators.

The internal architecture of the DX7 Pro features three ACCUSILICON femtosecond clocks for precise timing, an ES9311+ES9038PRO DAC chip, LME49720 op-amps for low-pass filtering and headphone amplification, Nichicon FW series HiFi capacitors, and TPS7A33/TPS7A47 ultra-low noise linear regulators, all contributing to its audio performance.

7. Specifications

- **Model Number:** DX7 Pro
- **Product Dimensions:** 9.45 x 3.54 x 14.57 inches
- **Item Weight:** 5.33 pounds
- **Manufacturer:** TOPPING
- **DAC Chip:** ESS ES9038PRO
- **Bluetooth Version:** 5.0
- **Bluetooth Codecs:** LDAC, AAC, SBC, aptX, aptX LL, aptX HD
- **Max Sample Rate (USB):** 32bit/768kHz, DSD1024

8. Troubleshooting

- **No Power:** Ensure the AC power cable is securely connected and the rear panel power switch is in the 'On' position. Check the voltage selector switch on the underside of the unit matches your local power supply. Verify the fuse is intact.
- **No Sound:** Check all audio cable connections. Confirm the correct input source is selected on the DX7 Pro. Ensure the volume level is not set to minimum or muted. Verify headphones or external speakers are properly connected and functioning.
- **Bluetooth Connection Issues:** Ensure the Bluetooth antenna is securely attached. Confirm Bluetooth is enabled on your source device and the DX7 Pro is in pairing mode or already paired. Try unpairing and re-pairing the device. Reduce the distance between the DX7 Pro and your Bluetooth device, and remove any obstructions.
- **Distorted Sound:** Check cable integrity and connections. Ensure the sample rate and bit depth settings on your source device are compatible with the DX7 Pro. Try a different audio source or cable to isolate the issue.

9. Maintenance

To ensure the longevity and optimal performance of your Topping DX7 Pro, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Avoid using abrasive cleaners, solvents, or chemical sprays, as these can damage the finish.
- **Ventilation:** Ensure the unit has adequate ventilation. Do not block any ventilation openings.
- **Environment:** Operate the DX7 Pro in a clean, dry environment, away from direct sunlight, excessive heat, moisture, and dust.
- **Storage:** If storing the unit for an extended period, disconnect it from power and store it in a cool, dry place.

10. Official Product Video

Your browser does not support the video tag.

This video provides a visual overview of the Topping DX7 Pro, showcasing its front and rear panels, highlighting the various input and output connections, and demonstrating its compact design.

11. Warranty and Support

For detailed warranty information and customer support, please refer to the warranty card included in your package. You may also visit the official Topping website or contact your authorized dealer for assistance.