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› LEAUDIO Topping D70 PRO OCTO HiFi DAC Instruction Manual

LEAUDIO D70 PRO OCTO

LEAUDIO Topping D70 PRO OCTO HiFi DAC Instruction Manual

Introduction	Package Contents	Product Overview	Setup	Operation	Key Features
	Specifications	Maintenance	Troubleshooting	Support	

1. INTRODUCTION

The LEAUDIO Topping D70 PRO OCTO is a high-fidelity Digital-to-Analog Converter (DAC) designed to deliver exceptional audio performance. Featuring 8 Cirrus Logic CS43198 chips, Bluetooth 5.1 with LDAC support, and a full-color Aurora UI, this device offers advanced audio decoding capabilities up to PCM768kHz/32bit and DSD512. This manual provides detailed instructions for setting up, operating, and maintaining your D70 PRO OCTO to ensure optimal performance.



Figure 1: Front view of the Topping D70 PRO OCTO HiFi DAC.

2. PACKAGE CONTENTS

Please check the package carefully for the following items:

- Topping D70 PRO OCTO Unit
- Remote Control
- USB Cable
- AC Power Cable
- Bluetooth Antenna
- Quick Start Guide

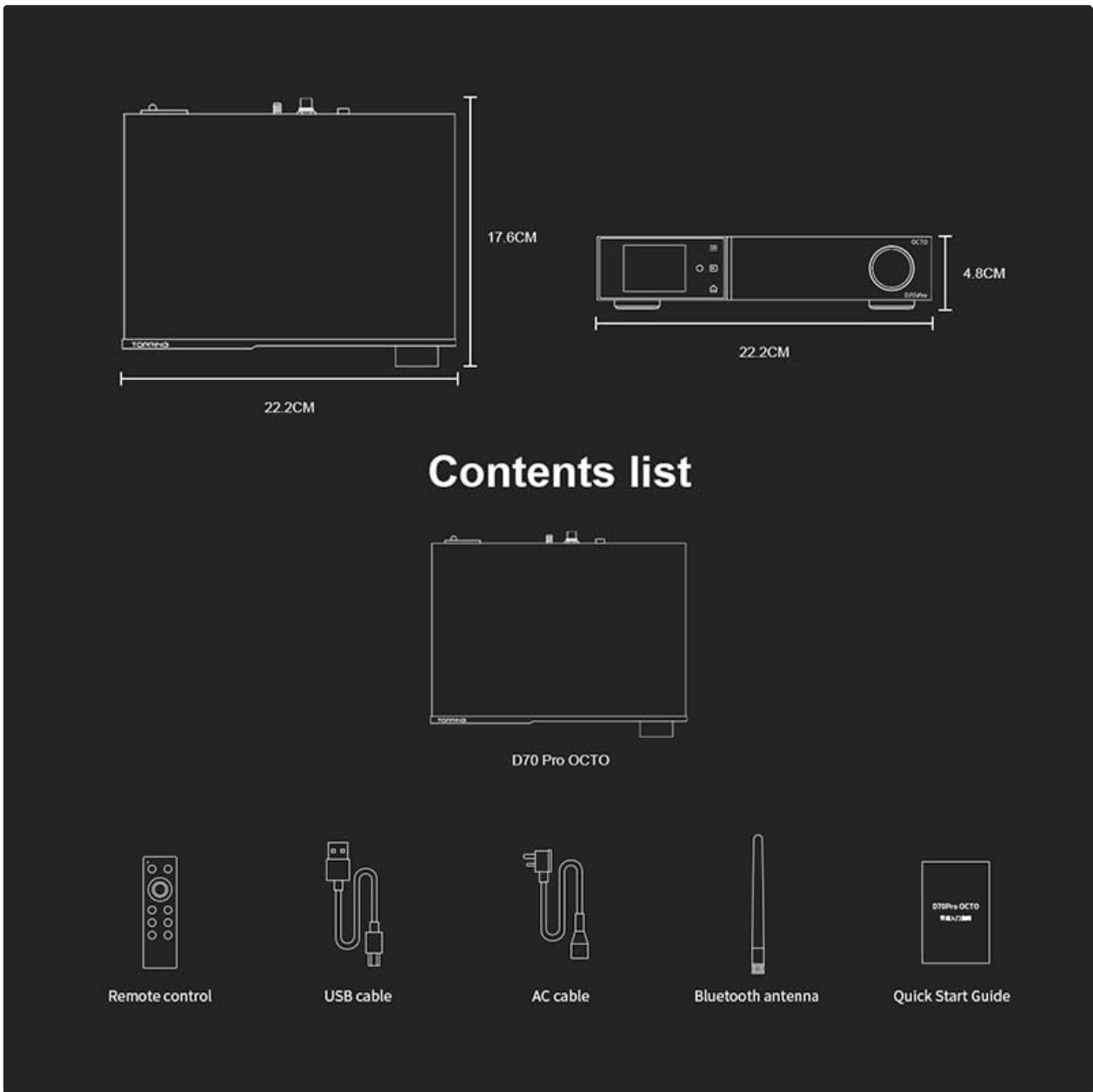


Figure 2: Included accessories: Remote control, USB cable, AC cable, Bluetooth antenna, and Quick Start Guide.

3. PRODUCT OVERVIEW

The D70 PRO OCTO features a clear layout for easy connectivity and control.



Figure 3: Front panel (top) with display and control knob, and rear panel (bottom) with various input/output ports.

Front Panel

- **Display Screen:** Shows current status, input, sample rate, and UI information.
- **Control Knob:** For navigation, volume adjustment, and menu selection.
- **Touch Buttons:** Three touch buttons for intuitive control of the Aurora UI.

Rear Panel

- **USB Input:** Connect to a computer for audio playback.
- **Coaxial Input:** Digital audio input.
- **Optical Input:** Digital audio input.
- **Bluetooth Antenna Connector:** For wireless Bluetooth reception.
- **USB-C (Power):** Power input.
- **RCA Output (L/R):** Unbalanced analog audio output.
- **XLR Output (L/R):** Balanced analog audio output.
- **12V Trigger:** For synchronized power control with other devices.
- **Power Switch:** Main power on/off.

4. SETUP

4.1 Initial Connection

1. Connect the Bluetooth antenna to the designated connector on the rear panel.
2. Connect the D70 PRO OCTO to a power source using the provided AC power cable.
3. Connect your audio source (e.g., computer, CD player) to the appropriate input on the D70 PRO OCTO (USB, Coaxial, or Optical).
4. Connect the D70 PRO OCTO's output (RCA or XLR) to your amplifier or active speakers.
5. Turn on the D70 PRO OCTO using the power switch on the rear panel.

4.2 Driver Installation (Windows)

For Windows operating systems, a specific driver is required for optimal performance, especially for ASIO playback. The D70 PRO OCTO utilizes an XMOS XU316 and Thesycon custom driver. This driver can typically be downloaded from the manufacturer's official website. Other operating systems like Mac, Linux, iOS, and Android are generally driver-free and support plug-and-play functionality.

Plug and play

D70 Pro OCTO has wide compatibility and can be used on multiple operating systems, such as Windows 10, Windows 11, MAC, Linux, and iOS/Android. Simply connect to the audio source and you can use it immediately.

It requires driver installation and setup for ASIO applications on Windows systems only. The USB hardware is based on XMOS XU316 and Thesycon custom driver (applicable to Windows, other systems are free of driver), which is stable and reliable.



Figure 4: The D70 PRO OCTO offers wide compatibility with various operating systems, with specific driver requirements for Windows.


5. OPERATION

5.1 Basic Controls

- **Power On/Off:** Use the main power switch on the rear panel.
- **Volume Adjustment:** Rotate the control knob on the front panel to adjust the output volume.
- **Input Selection:** Press the control knob or use the remote control to cycle through available inputs (USB, Coaxial, Optical, Bluetooth).


5.2 Aurora UI and Display Modes

The D70 PRO OCTO features a full-color Aurora UI with three touch buttons for an enhanced user experience. The display can show various playback information, including sample rate, volume, and input source. You can also switch between different display modes such as FFT (Fast Fourier Transform) and VU (Volume Unit) meters according to your preference.



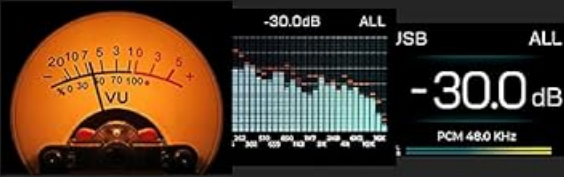
Aurora UI
bring new experience

Full color screen and three touch buttons
Experience has changed since



Colors Jump out at you

The display of the playback information, FFT, VU can be switched according to your requirements.



Customized functions are available by pressing the volume knob.

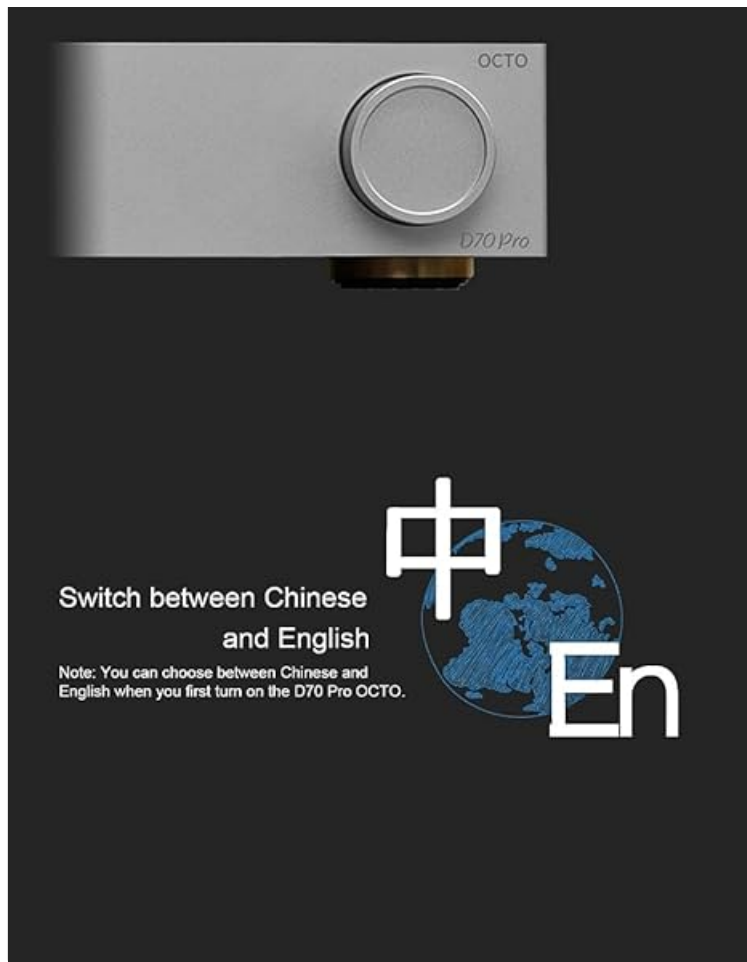


Figure 5: The Aurora UI offers a full-color screen, touch buttons, customizable functions via the volume knob, and language switching options.

5.3 Bluetooth 5.1 Transmission

The D70 PRO OCTO supports Bluetooth 5.1 with advanced audio encoding protocols including LDAC, aptX-Adaptive, aptX HD, aptX, AAC, and SBC. This allows for high-quality wireless audio streaming from compatible devices.

1. Select Bluetooth as the input source on the D70 PRO OCTO.
2. Enable Bluetooth on your source device (e.g., smartphone, tablet).
3. Search for "D70 PRO OCTO" in your device's Bluetooth settings and pair.
4. Once paired, audio will be streamed wirelessly to the DAC.

Bluetooth 5.1 transmission

D70 Pro OCTO supports LDAC/aptX-Adaptive/ aptX HD/aptX/AAC/SBC audio encoding, allowing high quality audio to be transmitted wirelessly for a better sound experience.



Figure 6: The D70 PRO OCTO supports Bluetooth 5.1 for high-quality wireless audio transmission.

6. KEY FEATURES

- **8x CS43198 DAC Chips:** Equipped with eight Cirrus Logic flagship CS43198 chips for superior audio conversion.
- **High-Resolution Audio Support:** Supports PCM up to 768kHz/32bit and DSD512 audio decoding.
- **Aurora UI:** Full-color screen and three touch buttons for intuitive control and display.

- **Versatile Display Modes:** Switch between playback information, FFT, and VU meters.
- **Bluetooth 5.1:** Supports LDAC, aptX-Adaptive, aptX HD, aptX, AAC, and SBC for high-quality wireless streaming.
- **Low Distortion and High Dynamic Range:** Achieves THD+N <0.00007% and a dynamic range of 134dB for accurate sound reproduction.

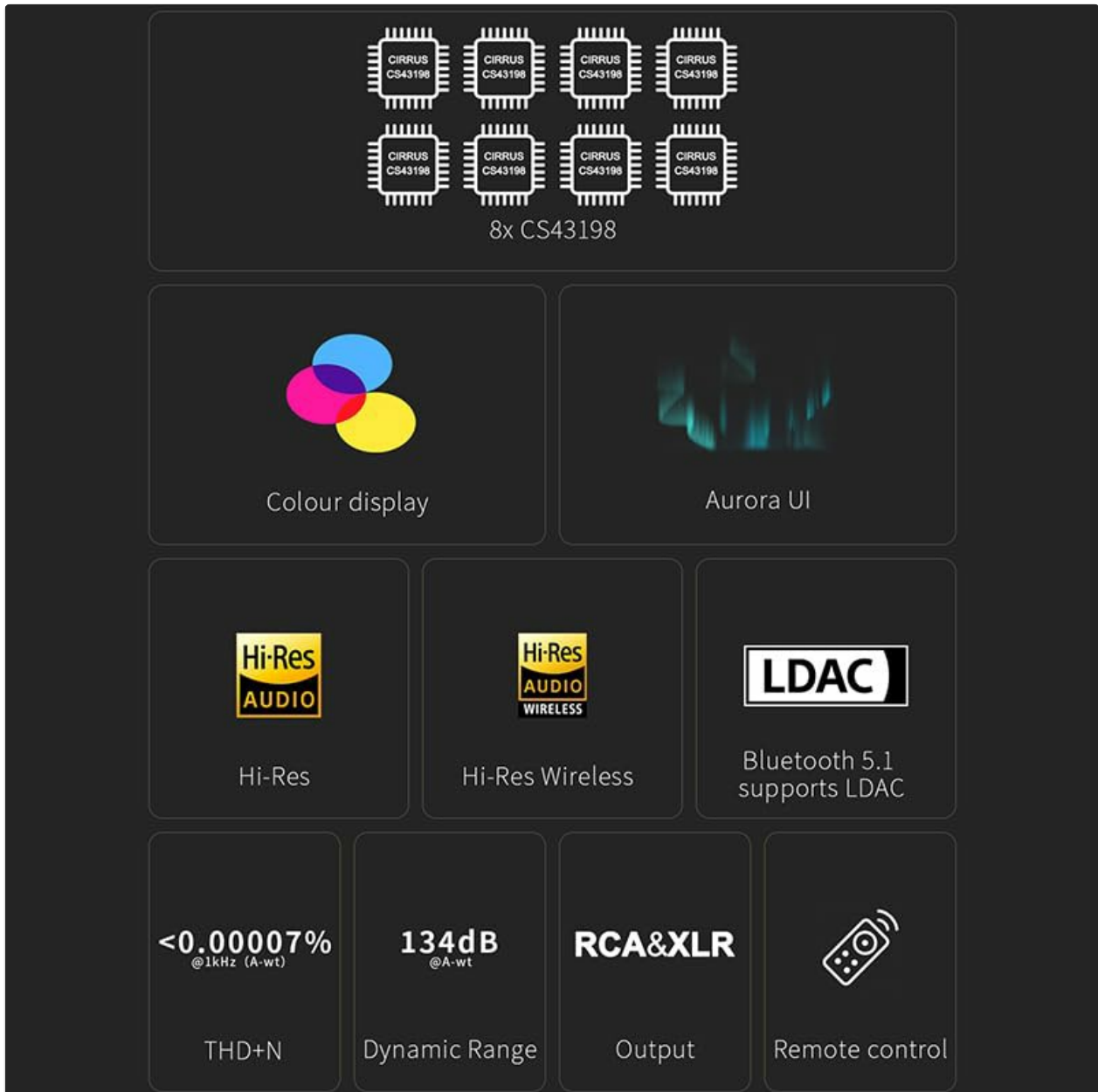


Figure 7: Visual representation of key features including 8x CS43198 chips, color display, Aurora UI, Hi-Res Audio, LDAC, and performance metrics.

Powerful without explanation

The D70 Pro OCTO's ability to restore music has reached a new level, with its details perfectly displayed.

THD+N (5v A-wt)

<0.00007%

SNR

134dB

DNR

134dB

Noise

<1.0uVrms



Figure 8: Detailed audio performance metrics including THD+N, SNR, DNR, and Noise levels, demonstrating the DAC's high fidelity.

7. SPECIFICATIONS

Feature	Detail
DAC Chip	8x Cirrus Logic CS43198
PCM Decoding	Up to 768kHz/32bit

Feature	Detail
DSD Decoding	Up to DSD512
Bluetooth Version	5.1
Bluetooth Codecs	LDAC, aptX-Adaptive, aptX HD, aptX, AAC, SBC
THD+N (RCA)	<0.00008% @ 1kHz (A-wt)
THD+N (XLR)	<0.00007% @ 1kHz (A-wt)
Dynamic Range (RCA)	128dB @ 1kHz (A-wt)
Dynamic Range (XLR)	134dB @ 1kHz (A-wt)
Output Impedance (RCA)	50Ω
Output Impedance (XLR)	100Ω
Inputs	USB, Coaxial, Optical, Bluetooth
Outputs	RCA, XLR
Dimensions	Approx. 14.41 x 9.49 x 3.43 inches (Package)
Item Weight	Approx. 4.29 pounds
Power Input	USB-C (DC 15V)

8. MAINTENANCE

To ensure the longevity and optimal performance of your D70 PRO OCTO, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Avoid using abrasive cleaners, solvents, or chemical sprays, as they may damage the finish.
- **Placement:** Place the device on a stable, flat surface away from direct sunlight, heat sources, and excessive moisture. Ensure adequate ventilation around the unit.
- **Power:** Always use the provided power adapter. Disconnect the power cable during lightning storms or when the unit is unused for extended periods.
- **Handling:** Avoid dropping or subjecting the device to strong impacts.

9. TROUBLESHOOTING

If you encounter any issues with your D70 PRO OCTO, please refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No power	Power cable not connected or faulty outlet.	Ensure the power cable is securely connected and the outlet is functional. Check the power switch on the rear panel.

Problem	Possible Cause	Solution
No sound output	Incorrect input/output selection, volume too low, or faulty cables.	Verify the correct input source is selected on the DAC. Check volume levels on both the DAC and connected amplifier/speakers. Ensure audio cables are securely connected and not damaged.
Bluetooth connection issues	Device not in pairing mode, out of range, or interference.	Ensure the DAC is in Bluetooth input mode. Place the source device closer to the DAC. Try unpairing and re-pairing the devices. Avoid sources of strong electromagnetic interference.
Distorted audio	Input signal too high, faulty cables, or incorrect settings.	Reduce the volume on the source device. Check audio cables for damage. Ensure the DAC's settings (e.g., filter modes) are appropriate for your audio.
Windows PC not recognizing DAC	Missing or incorrect USB driver.	Download and install the latest USB driver from the LEAUDIO or Topping official website. Restart your computer and the DAC.

If the problem persists after trying these solutions, please contact customer support.

10. WARRANTY AND SUPPORT

The LEAUDIO Topping D70 PRO OCTO is covered by a manufacturer's warranty. Please refer to the warranty card included in your package or visit the official LEAUDIO/Topping website for detailed warranty terms and conditions.

For technical support, service, or further inquiries, please contact your retailer or the manufacturer directly. Keep your purchase receipt and product serial number handy when seeking support.