TOPPING D30 Pro

TOPPING D30 Pro Hi-Res DAC Preamplifier Decoder User Manual

Model: D30 Pro | Brand: TOPPING

1. PRODUCT OVERVIEW

The TOPPING D30 Pro is a high-performance Digital-to-Analog Converter (DAC) and preamplifier decoder designed for Hi-Res audio. It features advanced audio processing capabilities and versatile connectivity options.

Key Features:

- **Advanced DAC Architecture:** Utilizes 4*CS43198 DAC chips, providing a total of 8 fully balanced channels. Each channel of the D30 Pro is configured in parallel with four balanced channels, enhancing output capability and improving specifications.
- **Ultra-Low Distortion:** Achieves a THD+N of less than 0.00009%, ensuring highly accurate sound reproduction (99.99991% fidelity).
- **High-Resolution USB Input:** Supports DSD256 and PCM384kHz Hi-Res audio. The D30 Pro incorporates the second-generation 8-core XMOS XU208, allowing USB to support up to PCM 32bit 384kHz and native DSD256. With the help of a customized Thesycon driver (for Windows 7 and above), PCs can achieve better performance with ASIO playback. (Mac does not require a driver for ASIO).
- **Coaxial and Optical Inputs:** Both coaxial and optical fiber inputs support Dop DSD64 and PCM 24bit 192kHz.
- **Flexible Output Options:** Equipped with fully balanced XLR output and single-ended RCA output. Users can select "XLR only", "RCA only", or "XLR + RCA" outputs to accommodate various system setups.

2. SETUP AND CONNECTIONS

This section details how to connect your TOPPING D30 Pro to various audio components.

2.1 Physical Overview

Figure 1: Front view of the TOPPING D30 Pro DAC. The display shows "USB DAC 1.1 DSD" and a large volume knob is on the right.

Figure 2: Physical dimensions of the D30 Pro, measuring 17.4cm in width, 4.5cm in height, and 13.8cm in depth.

2.2 Input and Output Connections

The rear panel of the D30 Pro provides various input and output ports for connecting to your audio system.

Figure 3: Rear panel connections including XLR, RCA, USB, Optical, and Coaxial inputs, and power input.

Figure 4: Detailed view of digital inputs (Coaxial, Optical, USB) on the D30 Pro.

For a visual guide on connecting various input sources, please refer to the video below:

Your browser does not support the video tag.

Video 1: Demonstrates connecting various input sources (Bluetooth, USB, RCA, XLR) to a power amplifier, including subwoofer output. This video is for a similar product and illustrates common connection types.

1. **Power Connection:** Connect the provided power cable to the AC IN port on the rear panel.
2. **USB Input:** Connect your computer or other USB audio source to the USB-B port using a high-quality USB cable.
3. **Optical/Coaxial Input:** Use appropriate optical or coaxial cables to connect digital audio sources.
4. **RCA Output:** Connect to your amplifier or active speakers using RCA cables.
5. **XLR Output:** For balanced audio transmission, connect to compatible amplifiers or active speakers using XLR cables.

3. OPERATING INSTRUCTIONS

The TOPPING D30 Pro is designed for straightforward operation. Here are the basic steps to get started:

3.1 Power On/Off

- To power on the device, press the power button located on the front panel. The display will illuminate.
- To power off, press and hold the power button until the display turns off.

3.2 Input Selection

The D30 Pro supports multiple input sources. Use the input selection button (or knob press/turn, inferring from typical DAC controls) to cycle through available inputs:

- USB
- Optical
- Coaxial

The currently selected input will be displayed on the front panel.

3.3 Volume Control

The large knob on the front panel controls the output volume. Turn clockwise to increase volume and counter-clockwise to decrease it.

3.4 Output Mode Selection

The D30 Pro offers flexible output configurations:

- **XLR Only:** Audio is output exclusively through the balanced XLR ports.
- **RCA Only:** Audio is output exclusively through the single-ended RCA ports.
- **XLR + RCA:** Audio is output simultaneously through both XLR and RCA ports.

Refer to the product's full manual for detailed instructions on how to switch between these output modes, typically done via a menu or dedicated button.

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4. TECHNICAL SPECIFICATIONS

Detailed technical specifications for the TOPPING D30 Pro DAC.

4.1 Input Specifications

- **USB Input:**

  - PCM: 44.1kHz-384kHz / 16bit-32bit
  - DSD: DSD64-DSD256 (Native), DSD64-DSD128 (Dop)

- **Coaxial/Optical Input:**

  - PCM: 44.1kHz-192kHz / 16bit-24bit
  - DSD: DSD64 (Dop)

4.2 Performance Parameters (USB In @ 96kHz)

Parameter	RCA Line Out	XLR Line Out
THD+N @ A-wt	<0.0001% @ 1kHz	<0.00009% @ 1kHz
THD @ No-wt 45kBw	<0.0004% @ 20-20kHz	<0.0004% @ 20-20kHz

Parameter	RCA Line Out	XLR Line Out
SNR @ A-wt	127dB @ 1kHz	132dB @ 1kHz
Dynamic Range @ A-wt	127dB @ 1kHz	132dB @ 1kHz
Frequency Response	20Hz~20kHz (±0.1dB), 20Hz~40kHz (±0.3dB)	20Hz~20kHz (±0.1dB), 20Hz~40kHz (±0.3dB)
Output Voltage	2Vrms @ 0dBFS	4Vrms @ 0dBFS
Noise @ A-wt	<0.9uVrms	<1.1uVrms
Crosstalk	-116dB @ 1kHz	-145dB @ 1kHz
Output Impedance	20Ω	40Ω

4.3 General Specifications

- **Manufacturer:** TOPPING
- **Part Number:** D30 Pro
- **Item Weight:** 1.19 Kilograms
- **Package Dimensions:** 28 x 20.3 x 8 cm; 1.19 kg
- **Color:** Silver
- **Voltage:** 230 Volts
- **Plug Profile:** Wall Mount
- **Batteries Included:** No
- **Batteries Required:** No
- **Interface Type:** RCA
- **Channel Count:** 8 (referring to internal DAC channels)
- **UPC:** 791270538903

5. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your D30 Pro.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Avoid using liquid cleaners or solvents, as they may damage the finish or internal components.
- **Ventilation:** Ensure the device is placed in a well-ventilated area to prevent overheating. Do not block any ventilation openings.
- **Storage:** When not in use for extended periods, store the D30 Pro in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Cable Management:** Keep cables organized and free from kinks or excessive tension to prevent damage to the cables or ports.

6. TROUBLESHOOTING

If you encounter issues with your TOPPING D30 Pro, please refer to the following common troubleshooting steps:

1. **No Power:**

- Check if the power cable is securely connected to both the D30 Pro and the power outlet.
- Ensure the power outlet is functional.

2. **No Sound Output:**

   - Verify that the correct input source is selected on the D30 Pro.
   - Check all audio cable connections (USB, Optical, Coaxial, RCA, XLR) for secure fit.
   - Ensure your amplifier or active speakers are powered on and set to the correct input.
   - Adjust the volume knob on the D30 Pro and your amplifier/speakers.
   - Confirm the output mode (XLR Only, RCA Only, XLR + RCA) is correctly configured for your setup.

3. **Distorted Sound:**

   - Check for loose cable connections.
   - Ensure the volume levels are not set too high, causing clipping.
   - Verify the audio source is not sending a distorted signal.

4. **USB Connection Issues:**

   - For Windows users, ensure the correct Thesycon driver is installed.
   - Try a different USB port or USB cable.
   - Restart your computer and the D30 Pro.

If the problem persists after trying these steps, please contact TOPPING customer support for further assistance.

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7. WARRANTY AND SUPPORT

TOPPING products are designed and manufactured to the highest quality standards. For warranty information and technical support, please refer to the official TOPPING website or contact your authorized dealer.

- **Online Support:** Visit the official TOPPING website for FAQs, driver downloads, and contact information.
- **Dealer Support:** Contact the retailer from whom you purchased the product for local support and warranty claims.
- **Proof of Purchase:** Please retain your proof of purchase for any warranty-related inquiries.