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TOPPING D70 Pro Sabre

TOPPING D70 Pro Sabre ES9039SPro Full Balance DAC User Manual

Model: D70 Pro Sabre

1. INTRODUCTION

The TOPPING D70 Pro Sabre is a high-performance Digital-to-Analog Converter (DAC) designed for audiophiles seeking exceptional sound quality. Featuring the ES9039SPro chip, advanced I/V conversion circuitry, and versatile input/output options, this device delivers precise and immersive audio reproduction. It supports various audio formats and offers a user-friendly interface for an enhanced listening experience.

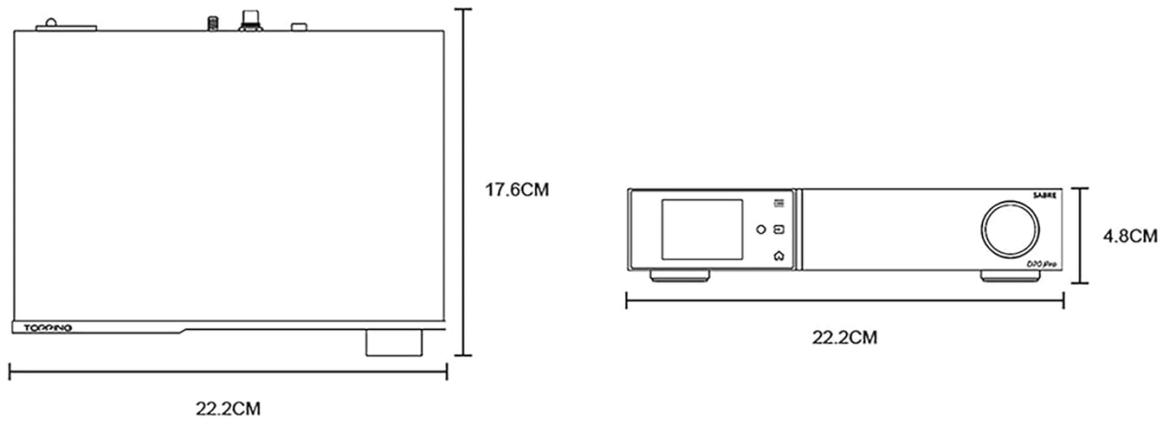
2. SAFETY INFORMATION

- Do not disassemble or modify the device. Unauthorized modifications may void the warranty and pose safety risks.
- Keep the device away from water, moisture, and high temperatures.
- Ensure proper ventilation around the unit to prevent overheating.
- Use only the provided power cable and accessories.
- Disconnect the power cable during lightning storms or when unused for extended periods.

3. PACKAGE CONTENTS

Please check that all items are present in the package:

- 1 x TOPPING D70 Pro Sabre DAC
- 1 x Remote Control
- 1 x USB Cable
- 1 x AC Power Cable
- 1 x Bluetooth Antenna
- 1 x User Manual (this document)



Contents list



D70 Pro SABRE



Remote control



USB cable



AC cable



Bluetooth antenna



Warranty card

Image: TOPPING D70 Pro Sabre DAC with its included accessories and dimensions.

4. PRODUCT OVERVIEW

4.1 Front Panel

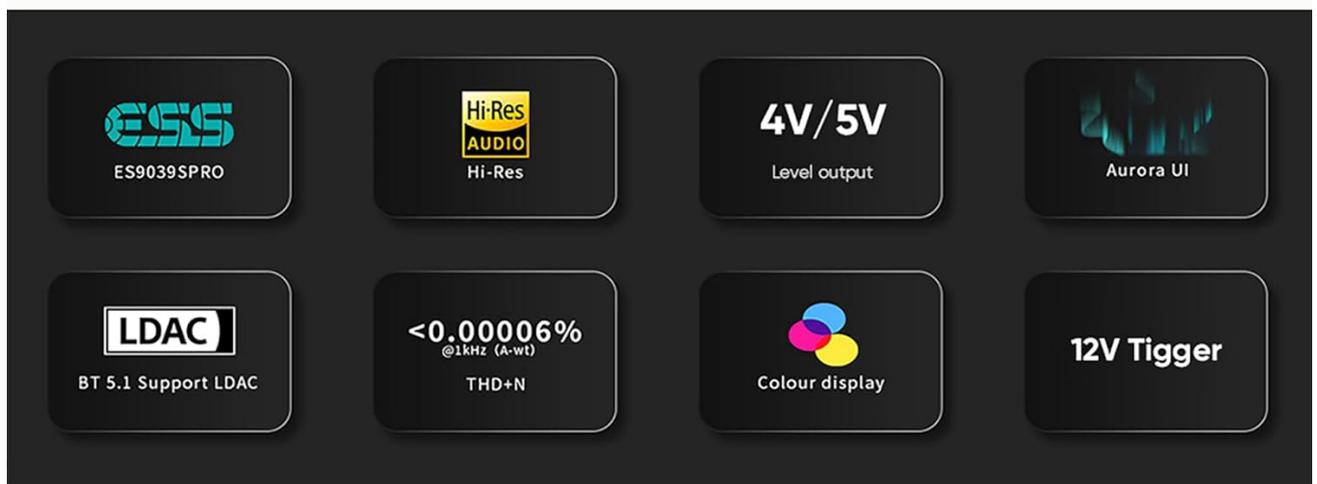


Image: Front view of the TOPPING D70 Pro Sabre, showing the full-color display and control knob. The front panel features a full-color display (Aurora UI) that shows current input, sample rate, volume level, and other playback information. A multi-function knob allows for input selection, volume adjustment, and menu navigation. Touch buttons provide quick access to various settings and display modes like FFT and VU meters.

4.2 Rear Panel



Image: Rear view of the TOPPING D70 Pro Sabre, illustrating the various input and output connections. The rear panel provides a comprehensive set of input and output options:

- **Inputs:** USB, AES, Optical, Coaxial, Bluetooth 5.1 (with antenna connector).
- **Outputs:** Balanced XLR, Unbalanced RCA.
- **Power:** AC power input.

5. SETUP

5.1 Connecting Power

1. Connect the provided AC power cable to the power input on the rear panel of the D70 Pro Sabre.
2. Plug the other end of the AC power cable into a suitable wall outlet.

5.2 Connecting Audio Sources

Choose one of the following input methods:

- **USB Input:** Connect a USB cable from your computer (Windows 10/11, macOS, Linux) to the USB input on the D70 Pro Sabre. For Windows systems, a driver installation may be required for ASIO applications.
- **Optical/Coaxial/AES Input:** Connect your digital audio source (e.g., CD player, streamer) using an optical, coaxial, or AES cable to the corresponding input on the D70 Pro Sabre.
- **Bluetooth Input:** Screw the Bluetooth antenna onto the designated connector on the rear panel.

5.3 Connecting to an Amplifier/Headphones

Connect the D70 Pro Sabre to your amplifier or headphone amplifier using either XLR or RCA cables:

- **XLR Output:** For balanced connections, use XLR cables to connect the D70 Pro Sabre to an amplifier with XLR inputs.
- **RCA Output:** For unbalanced connections, use RCA cables to connect the D70 Pro Sabre to an amplifier with RCA inputs.

D70 Pro SABRE DAC parameters (LineOut/USB In@96kHz)		
	RCA	XLR
THD+N (A-wt)	<0.00008% @1kHz	<0.00006% @1kHz
THD @90kBw (No-wt)	<0.0004% @20-20kHz	<0.0002% @20-20kHz
SNR (A-wt)	128dB @1kHz	133dB @1kHz
Dynamic Range (A-wt)	128dB @1kHz	133dB @1kHz
Frequency Response	20Hz-20kHz (±0.05dB) 20Hz-40kHz (±0.2dB)	20Hz-20kHz (±0.05dB) 20Hz-40kHz (±0.2dB)
Output Level	2.1Vrms @0dBFS (4V Mode) 2.5Vrms @0dBFS (5V Mode)	4.2Vrms @0dBFS (4V Mode) 5.0Vrms @0dBFS (5V Mode)
Noise (A-wt)	<1.0uVrms	<1.0uVrms
Channel Crosstalk	-128dB @1kHz	-140dB @1kHz
Channel Balance	0.3dB	0.3dB
Output Impedance	50Ω	100Ω

*Note: The above data is the result obtained from TOPPING lab test under AC220V 50Hz and D70 Pro SABRE set to 5V output mode.

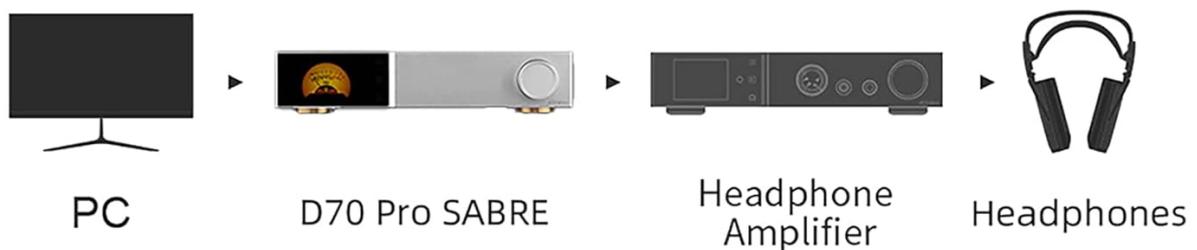


Image: Diagram illustrating typical connections for the D70 Pro Sabre with a PC, headphone amplifier, and headphones.

6. OPERATING INSTRUCTIONS

6.1 Power On/Off

Press the power button on the front panel or the remote control to turn the device on or off.

6.2 Input Selection

Rotate the multi-function knob or use the remote control to cycle through available inputs (USB, AES, Optical, Coaxial, Bluetooth).

6.3 Volume Control

Rotate the multi-function knob to adjust the output volume. The D70 Pro Sabre features independent volume memory for Single Ended, Balanced, and All modes, automatically recalling the last used volume for each output type.

Independent volume memory

D70 Pro SABRE can memorize the output volume of "Single Ended", "Balanced" and "All" modes respectively. And the next time the output is selected, it automatically reverts to the last used volume.

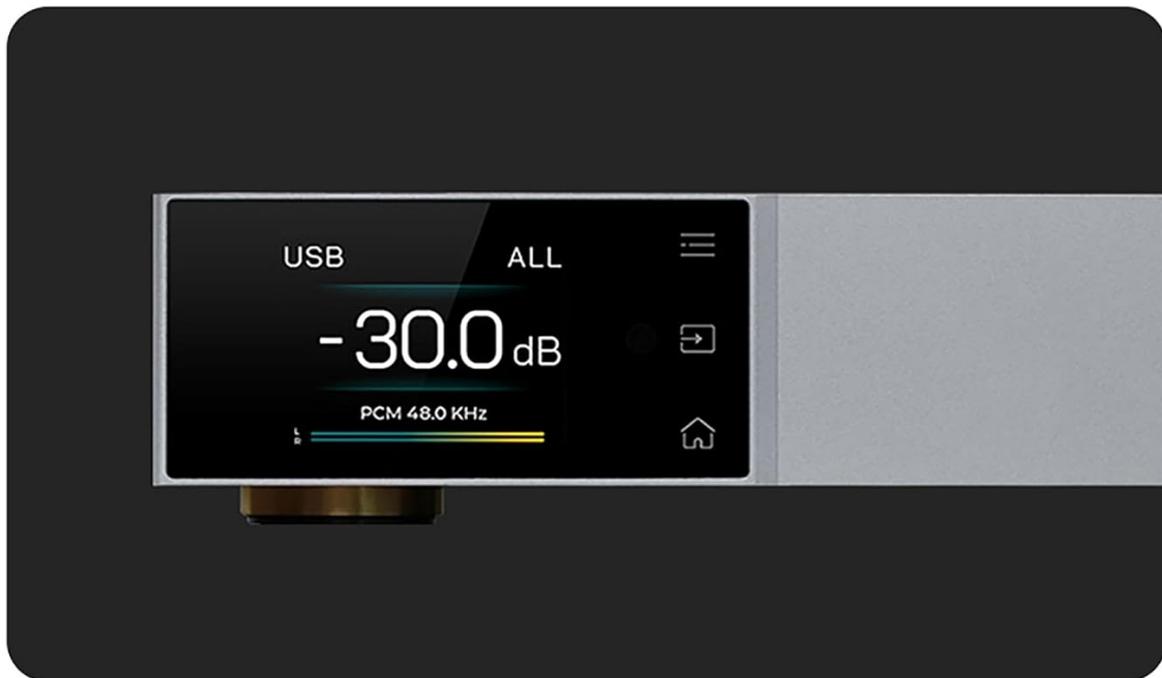


Image: The D70 Pro Sabre display showing the current volume level and PCM sample rate.

6.4 Display Modes (Aurora UI)

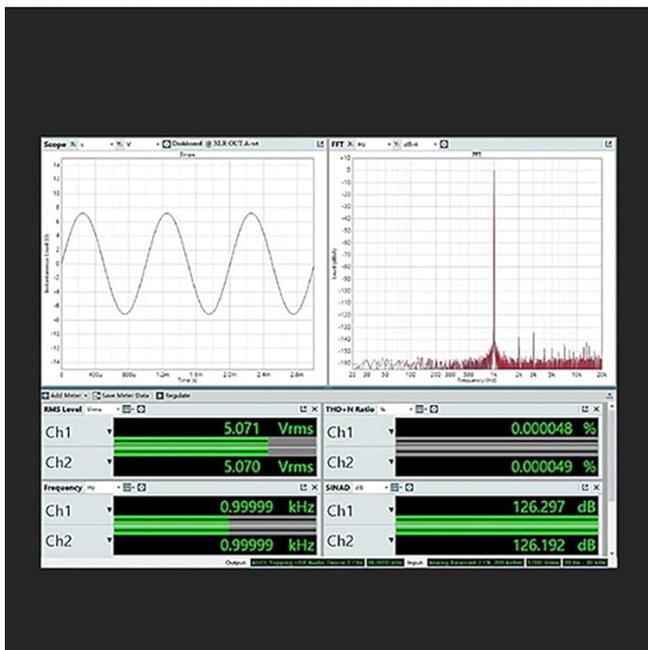
The D70 Pro Sabre features an intuitive Aurora UI with a full-color display. Use the touch buttons or remote to navigate and customize the display, including options for FFT (Fast Fourier Transform) and VU (Volume Unit) meters to visualize playback information.

6.5 Bluetooth Pairing

1. Select Bluetooth as the input source on the D70 Pro Sabre.
2. On your Bluetooth device (e.g., smartphone, tablet), search for available devices and select "TOPPING D70 Pro Sabre".
3. Once paired, audio will be streamed wirelessly to the DAC. The D70 Pro Sabre supports LDAC, aptX-Adaptive, aptX HD, aptX, AAC, and SBC codecs for high-quality wireless audio transmission.

Bluetooth 5.1 transmission

D70 Pro SABRE supports LDAC / aptX-Adaptive / aptX HD / aptX / AAC 1 SBC audio encoding, allowing high quality audio to be transmitted wirelessly for a better sound experience.



Powerful without explanation

The D70 Pro SABRE achieves a new level of musical reproduction capability with the finest details.

Image: Illustration of Bluetooth 5.1 connectivity and performance graphs of the D70 Pro Sabre.

6.6 Timbre Fine-Tuning

The D70 Pro Sabre allows direct switching between different timbre modes: Default, Valve, and Transistor. These modes adjust the sound characteristics to suit your preference.

Timbre fine-tuning

D70 Pro SABRE supports direct switching between Default mode, Valve mode, and Transistor mode. Want a different timbre? Just fine tune it.

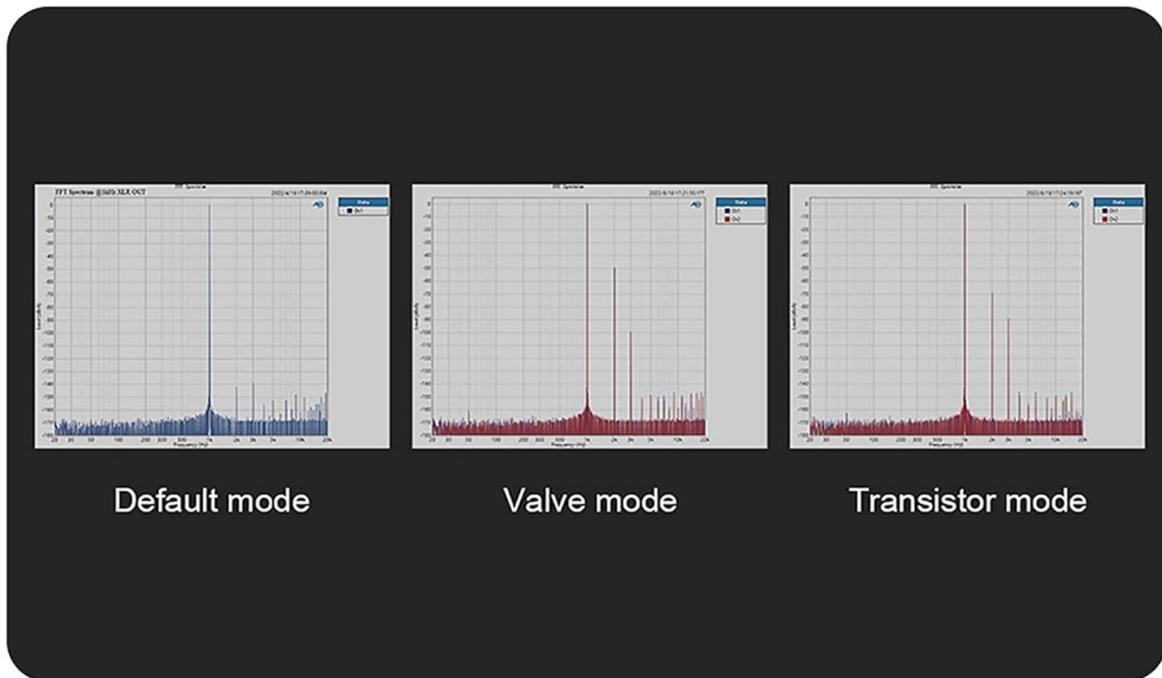


Image: Visual representation of the Default, Valve, and Transistor timbre modes available on the D70 Pro Sabre.

7. MAINTENANCE

- Clean the device regularly with a soft, dry cloth. Avoid using abrasive cleaners or solvents.
- Ensure all connections are secure and free from dust.
- Store the device in a cool, dry place when not in use.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No sound output	Incorrect input selected, cables loose, amplifier off, volume too low.	Verify input selection, check all cable connections, ensure amplifier is on and volume is adequate.

Problem	Possible Cause	Solution
Bluetooth connection unstable	Antenna not connected, interference, device too far.	Ensure Bluetooth antenna is securely attached. Reduce distance between devices. Avoid sources of interference.
No display	Device not powered on, display settings.	Check power connection and power button. Adjust display settings via menu.
Distorted sound	Incorrect sample rate, faulty cable, source issue.	Check source sample rate matches DAC capabilities. Try different cables. Test with another audio source.

9. SPECIFICATIONS

The TOPPING D70 Pro Sabre DAC features the powerful ES9039SPro chip and advanced I/V conversion circuitry. Below are key performance parameters (Line Out/USB In@96kHz):

Parameter	RCA Output	XLR Output
THD+N (A-wt) @1kHz	<0.00008%	<0.00006%
THD @90kBw (No-wt) @20-20kHz	<0.0004%	<0.0002%
SNR (A-wt) @1kHz	128dB	133dB
Dynamic Range (A-wt) @1kHz	128dB	133dB
Frequency Response	20Hz-20kHz (+0.05dB), 20Hz-40kHz (+0.2dB)	20Hz-20kHz (+0.05dB), 20Hz-40kHz (+0.2dB)
Output Level @0dBFS (4V mode)	2.1Vrms	4.2Vrms
Output Level @0dBFS (5V mode)	2.5Vrms	5.0Vrms
Noise (A-wt)	<1.0uVrms	<1.0uVrms
Channel Crosstalk @1kHz	-128dB	-140dB
Channel Balance	0.3dB	0.3dB
Output Impedance	50Ω	100Ω

Note: The above data is the result obtained from TOPPING's laboratory tests at AC220V 50Hz, with D70 Pro SABRE set to 5V output mode.

General Specifications:

- **Manufacturer:** TOPPING
- **Part Number:** D70Pro SE
- **Product Weight:** 2.02 Kilograms
- **Product Dimensions:** 22.2 x 17.6 x 4.8 cm

- **Color:** Black
- **Interface Type:** RCA, USB
- **Minimum/Maximum Supply Voltage:** 5 Volts (DC)

10. WARRANTY AND SUPPORT

TOPPING provides after-sales support and technical assistance for its products. If you encounter any issues during purchase or use, please contact the seller directly for assistance. For general inquiries or technical support, refer to the official TOPPING website or contact their customer service.

The seller, AOSHIDA Audio-JP, is available to assist with product-related concerns. You can find their contact information on the Amazon platform.