

[Manuals.plus](#) /

> [AOSHIDA](#) /

> AOSHIDA Topping E70 Fully Balanced DAC Preamp User Manual

AOSHIDA E70

AOSHIDA Topping E70 Fully Balanced DAC Preamp User Manual

Model: E70

1. INTRODUCTION

The AOSHIDA Topping E70 is a high-performance fully balanced Digital-to-Analog Converter (DAC) and preamplifier designed for home stereo amplifier systems. It features an ES9028Pro DAC chip, XMOS XU316 USB interface, and Bluetooth 5.1 with LDAC support, offering versatile input and output options for superior audio reproduction.



Image 1.1: The Topping E70 DAC Preamp in black, shown with its accompanying remote control.

2. PACKAGE CONTENTS

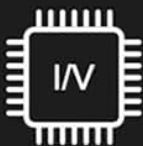
Please verify that all items listed below are included in your package:

- 1 x E70 Unit
- 1 x Remote control
- 1 x USB cable
- 1 x AC cable
- 1 x Bluetooth antenna
- 1 x User manual (this document)
- 1 x Warranty card

3. KEY FEATURES

The E70 DAC Preamp incorporates advanced technologies for high-fidelity audio:

- **ESS SABRE DAC ES9028PRO:** Provides exceptional audio performance with ultra-low distortion.
- **XMOS XU316:** Supports high-resolution audio formats up to DSD512 and PCM768kHz via USB.
- **Bluetooth 5.1 with LDAC:** Certified for Hi-Res Audio Wireless, supporting LDAC, AAC, SBC, aptX, aptX LL, aptX HD, and aptX Adaptive protocols.
- **Multiple Output Ports:** Features balanced XLR and single-ended RCA outputs, configurable for "XLR only", "RCA only", or "XLR + RCA" operation.
- **Preamplifier Mode:** Offers a DAC + preamplifier mode with adjustable output level from -99dB to 0dB.
- **Coaxial and Optical Inputs:** Supports PCM up to 24bit/192kHz and DSD Dop64, compatible with various digital audio sources.
- **Auto On/Off Function:** Automatically powers on and selects an active input, and powers off after 1 minute if no valid signal is present.
- **12V Trigger Interface:** Allows synchronized power control with compatible devices like the Topping L70 headphone amplifier.

 ES9028PRO	 Hi-Res Audio & Hi-Res Audio Wireless	 Bluetooth 5.1 support LDAC Transmission
 THD+N	 XU316	 Brand new I/V conversion
 RCA&XLR		

7.8-7.11 

4. SETUP INSTRUCTIONS

4.1 Power Connection

Connect the supplied AC cable to the E70's power input and then to a suitable power outlet. The unit will enter standby mode.

4.2 Input Connections

The E70 supports multiple digital audio inputs:

- **USB Input:** Connect your computer or compatible device using the provided USB cable. For Windows systems, a specific driver may be required for optimal performance (refer to Topping's official website for driver downloads).
- **Optical Input:** Connect an optical cable from your source device (e.g., TV, game console) to the E70's optical input.
- **Coaxial Input:** Connect a coaxial cable from your source device to the E70's coaxial input.
- **Bluetooth Input:** Attach the Bluetooth antenna to the designated port on the E70. Enable Bluetooth on your source device and pair with the E70.

Newest XMOS XU316 support DSD512&PCM768kHz

USB input of E70 has a wide range of compatibility: Windows 10, Windows 11, MAC, Linux, IOS, Android can be plug and play. Only for Windows ASIO applications, you need to install the driver and set it up. The USB hardware is based on newest XMOS XU316 and Thesycon custom driver (applicable to Windows, other systems are free of driver), which is stable and reliable.

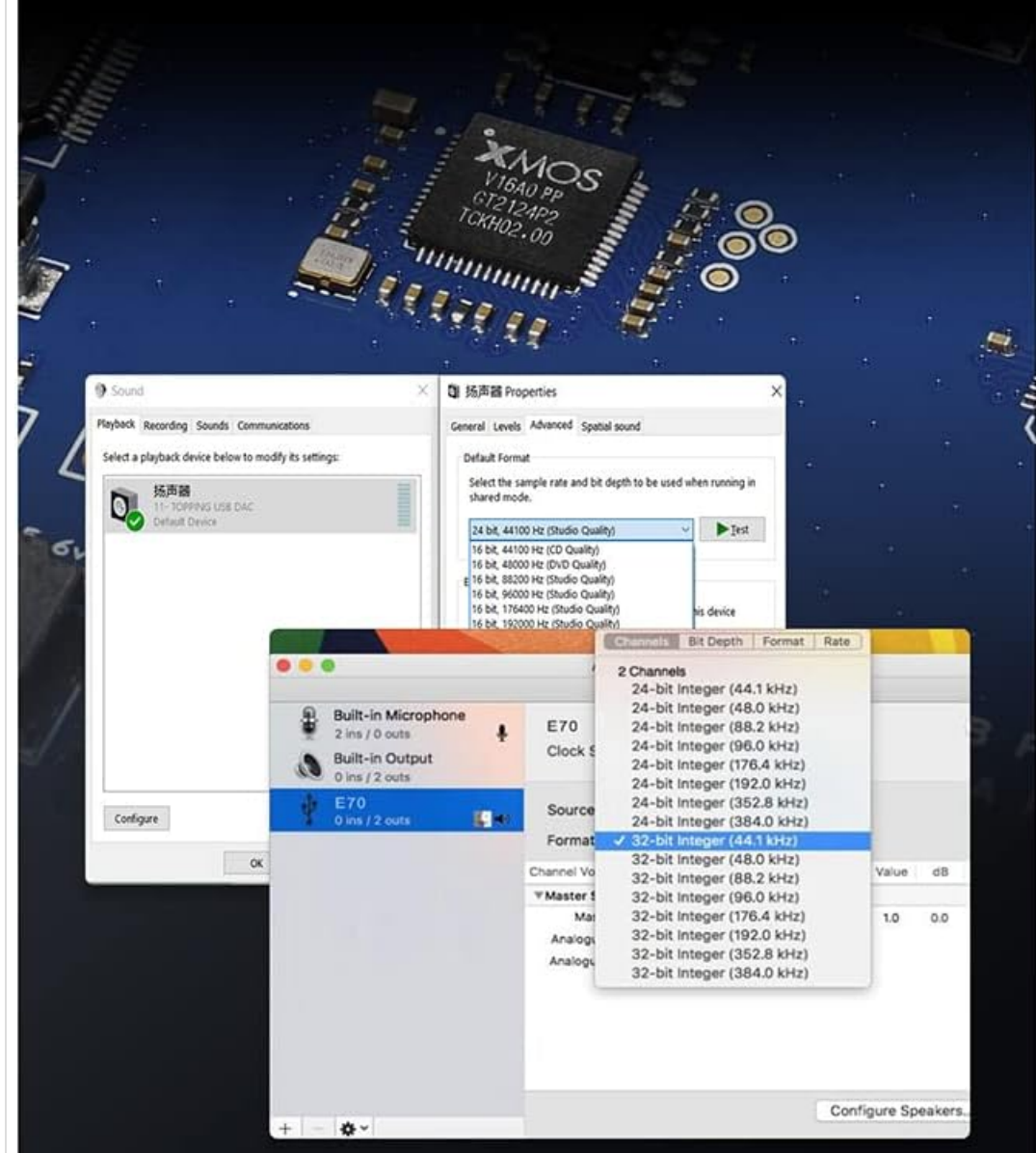


Image 4.1: The XMOS XU316 USB interface provides wide compatibility and high-resolution audio support.

4.3 Output Connections

The E70 offers both balanced and single-ended analog outputs:

- **XLR Outputs:** For balanced connection to compatible amplifiers or active speakers.
- **RCA Outputs:** For single-ended connection to amplifiers or other audio equipment.

You can configure the output mode (XLR only, RCA only, or XLR + RCA) via the device settings.

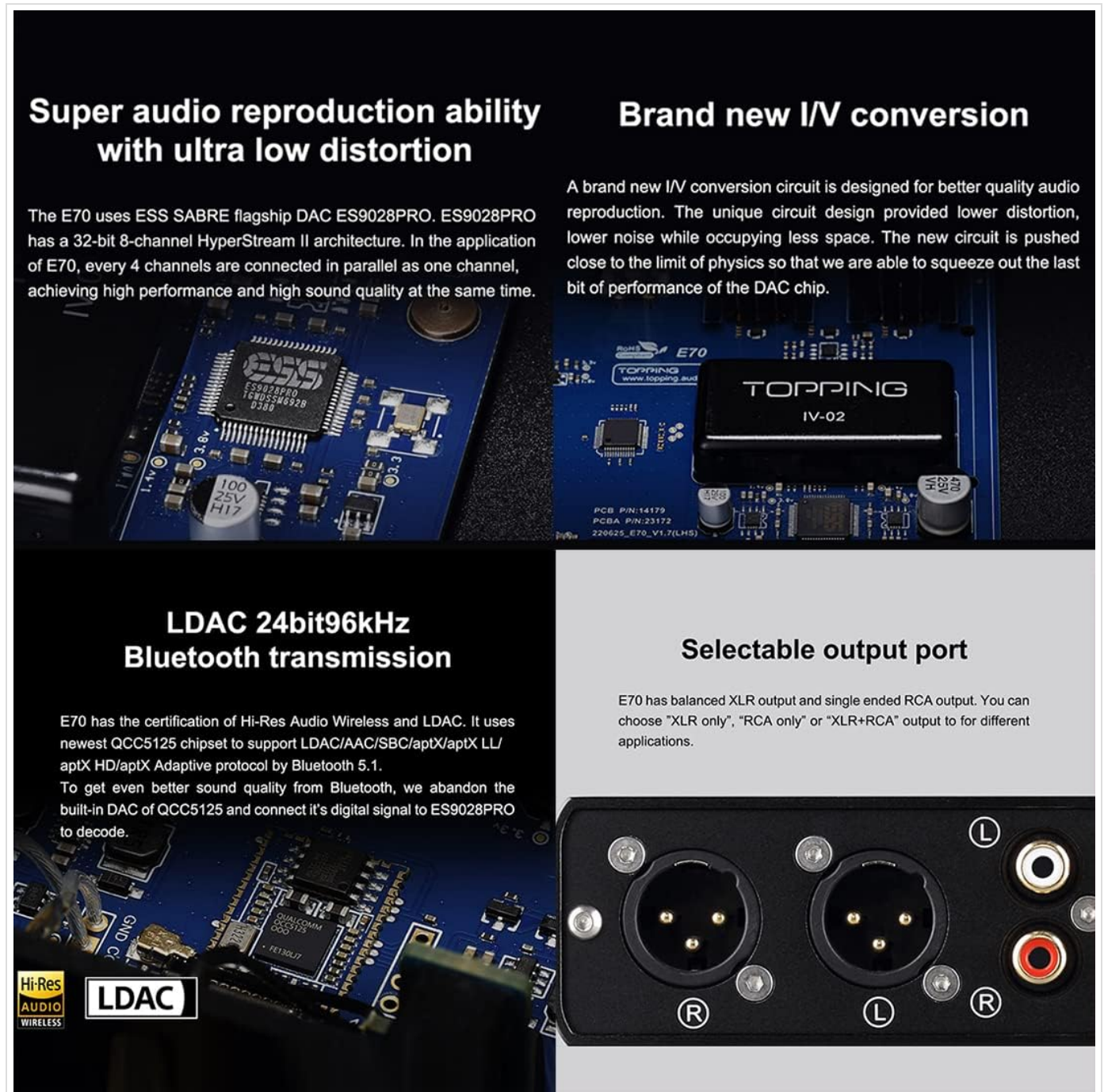


Image 4.2: The E70's rear panel illustrating the balanced XLR and single-ended RCA output options.

4.4 12V Trigger Interface

The E70 includes a 12V Trigger interface (Trigger out and Trigger in) for synchronized power control with other devices. Use a 3.5mm cable to connect the E70 to compatible equipment, such as the Topping L70 headphone amplifier, allowing them to power on/off together.



Image 4.3: The 12V Trigger interface enables synchronized power control with other audio components.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

Press the power button on the front panel or the remote control to turn the E70 on or off. The E70 also features an automatic On/Off function: it will power on when a valid signal is detected on a selected input and power off after 1 minute if no valid signal is present.

5.2 Input Selection

Use the input selection button on the front panel or the remote control to cycle through available inputs: USB, Optical, Coaxial, and Bluetooth.

5.3 DAC Mode vs. Preamplifier Mode

The E70 operates in two primary modes:

- **DAC Mode:** In this mode, the output level is fixed. The E70 acts purely as a Digital-to-Analog Converter.
- **DAC + Preamp Mode:** This mode allows you to control the output volume from -99dB to 0dB using the front panel knob or the remote control. This is useful when connecting directly to a power amplifier or active speakers.

Preamplifier function

In addition to the DAC mode with a fixed output level, the E70 also has a DAC+preamp mode. In this mode, you can control the output volume from -99dB to 0dB by the knob or by the remote control. This will provide great convenience when connected to a power amplifier or monitor speakers. And also help you leave the budget of a preamplifier.



Image 5.1: The E70's preamplifier function allows direct connection to power amplifiers or active speakers.

5.4 Output Configuration

The E70 allows selection of output types and voltage levels:

- **Output Selection:** Choose between "XLR only", "RCA only", or "XLR + RCA" outputs based on your connected equipment.
- **Output Voltage:** The E70 supports 4V and 5V modes for XLR outputs, and 2V and 2.5V modes for RCA outputs. Select the appropriate voltage based on your amplifier's input sensitivity to avoid clipping or to achieve optimal gain.

6. MAINTENANCE

To ensure the longevity and optimal performance of your E70 DAC Preamp:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Avoid using abrasive cleaners or solvents.
- **Ventilation:** Ensure adequate ventilation around the unit to prevent overheating. Do not block ventilation openings.
- **Environment:** Operate the E70 in a clean, dry environment, away from direct sunlight, heat sources, and excessive moisture.

7. TROUBLESHOOTING

If you encounter issues with your E70, please refer to the following common solutions:

- **No Sound Output:**
 - Check all cable connections (power, input, output).
 - Ensure the correct input source is selected on the E70.
 - Verify that your amplifier or active speakers are powered on and set to the correct input.
 - If in preamplifier mode, ensure the volume is not set to minimum (-99dB).
- **Intermittent Sound / Flutter:**
 - This can sometimes occur with certain input sources, particularly optical from some TVs.
 - Ensure your E70 firmware is up to date. Check the official Topping website for the latest firmware and installation instructions.
 - If using USB, ensure the correct drivers are installed and updated.
- **Bluetooth Connection Issues:**
 - Ensure the Bluetooth antenna is securely attached.
 - Verify that Bluetooth is enabled on your source device and the E70 is in pairing mode.
 - Try unpairing and re-pairing the device.
- **Remote Control Unresponsive:**
 - Check the battery in the remote control.
 - Ensure there are no obstructions between the remote and the E70's IR receiver.
 - Point the remote directly at the E70.

If problems persist, please contact AOSHIDA customer support for further assistance.

8. SPECIFICATIONS

Detailed technical specifications for the Topping E70 DAC Preamp:

Parameter	Value
DAC Chip	ESS SABRE ES9028PRO
USB Input	DSD (Native): 44.1kHz-768kHz/16bit-32bit; DSD (DoP): DSD64-DSD512
Coaxial/Optical Input	44.1kHz-192kHz/16bit-24bit; DSD (DoP): DSD64
Bluetooth Input	AAC/SBC/APTX/APTX LL/APTX HD/APTX-Adaptive/LDAC
RCA Output THD+N (1kHz, A-wt)	<0.00008%
RCA Output SNR (1kHz, A-wt)	126dB
RCA Output Level (4V Mode)	2.1Vrms @ 0dBFS
RCA Output Level (5V Mode)	2.5Vrms @ 0dBFS
XLR Output THD+N (1kHz, A-wt)	<0.00006%
XLR Output SNR (1kHz, A-wt)	132dB
XLR Output Level (4V Mode)	4.2Vrms @ 0dBFS
XLR Output Level (5V Mode)	5.0Vrms @ 0dBFS
Dimensions (L x W x H)	20.0cm x 13.8cm x 4.4cm (7.87"L x 5.43"W)
Weight	1.5KG (3.08 pounds)

Excellent performance

THD+N of E70 is already lower than 0.00006% (A-weighted), the music restoration is accurate to every detail.

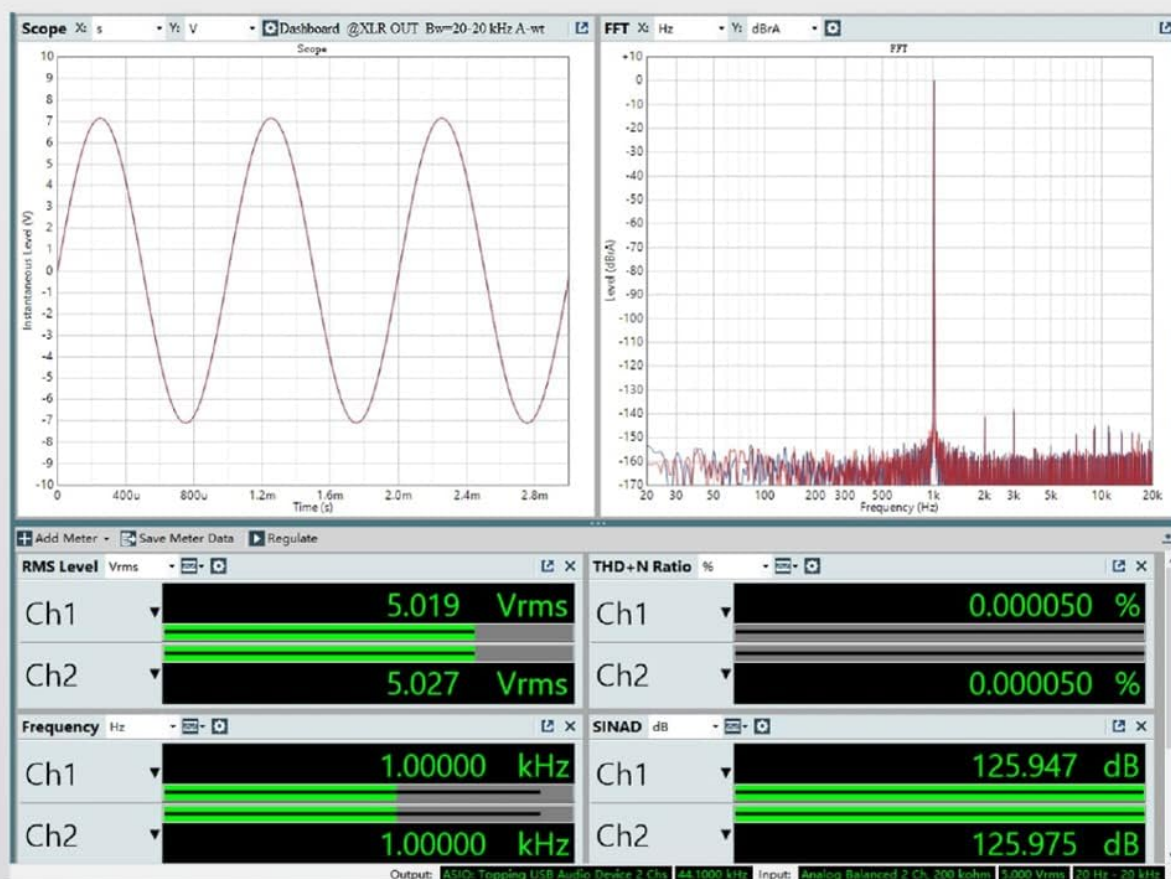
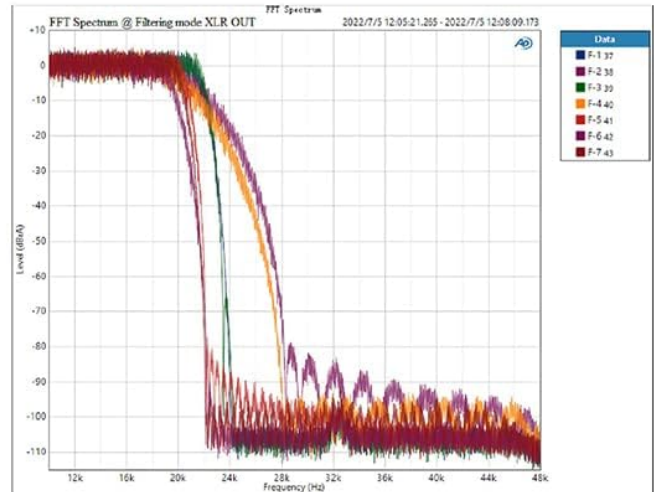
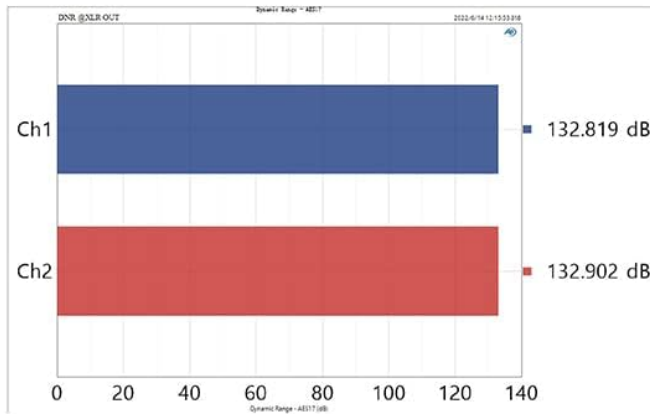


Image 8.1: Performance graph illustrating the E70's low THD+N, indicating high audio fidelity.



Ultra low jitter at all input

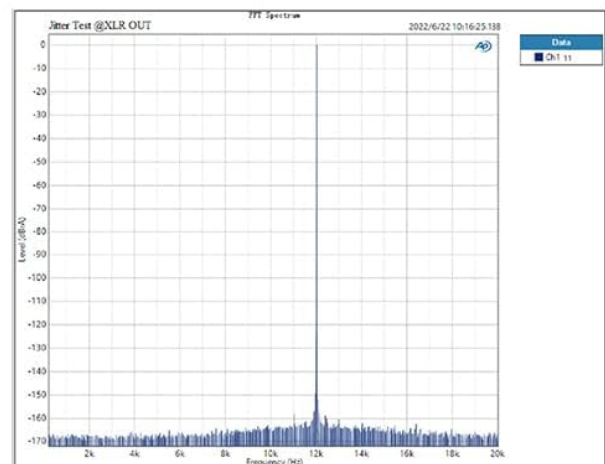
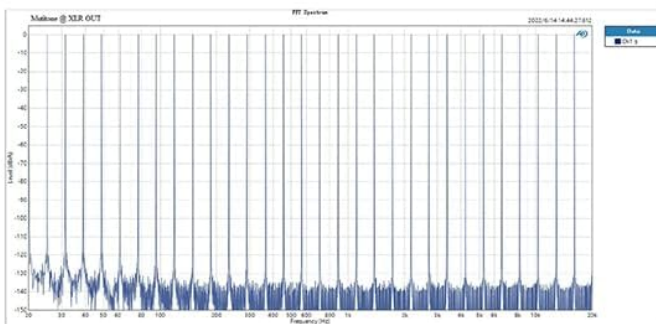


Image 8.2: Jitter analysis graphs confirming the E70's ultra-low jitter performance.

9. SAFETY INFORMATION

Please observe the following safety guidelines:

- Do not place the unit at a high location where it could fall and cause damage or injury.
- Avoid exposing the unit to water or excessive moisture.
- Do not attempt to disassemble or modify the unit. Refer all servicing to qualified personnel.
- Ensure proper ventilation to prevent overheating.

Importer: guangzhouyinlvdianzikejiyouxiangongsi

Importer Address: CN, 510000, guangdongsheng, guangzhoushi, baiyunqu, jiangxiahongfengglu2hao6dong102shi

Importer Email: yinlvkeji@126.com



Name: eLing GmbH

Address: Romy-Schneider-Strasse 4a, Duesseldorf 40549 DE

Email: info@eling-gmbh.com



- UK** ⚠ Please do not place at a high place to avoid falling
- DE** ⚠ Bitte nicht an einer hohen Stelle platzieren, um St ü rze zu vermeiden
- FR** ⚠ Ne pas placer l'appareil en hauteur pour é viter qu'il ne tombe.
- IT** ⚠ Non posizionarlo in alto per evitare cadute.
- ES** ⚠ No lo coloque en un lugar alto para evitar ca í das.
- NL** ⚠ Niet op een hoge plek plaatsen om vallen te voorkomen

Image 9.1: Important safety warning regarding product placement.

10. WARRANTY AND SUPPORT

Your Topping E70 comes with a warranty card included in the package. Please refer to the warranty card for specific terms and conditions.

For any questions, technical support, or assistance during use, please contact AOSHIDA customer support. They are available to guide you in resolving any issues promptly.

Contact information for AOSHIDA support can typically be found on their official website or through your purchase platform.

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

Open the live page

<https://manuals.plus/asin/B0BKKS6XP8>

More documents and user manuals: <https://manuals.plus/>