

TOPPING

Centaurus

使用手册 

User Manual 

説明書 

Model: TP536
V1.1

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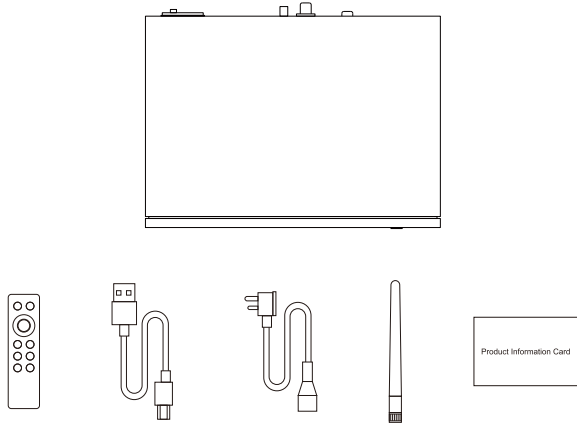
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1. Contents list

Centaurus	x 1
Remote control	x 1
USB cable	x 1
AC cable	x 1
Bluetooth antenna	x 1
Product Information Card	x 1

Note: You can download the driver on <https://www.toppingaudio.com/downloads>.



2. Attribute

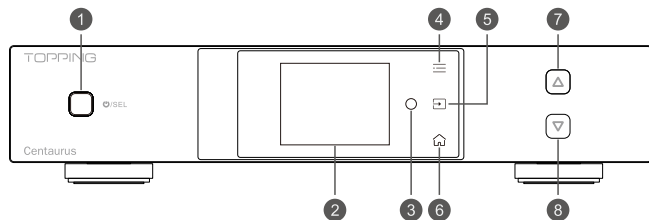
Measured	22.2cm x 16.0cm x 4.5cm
Weight	1.13Kg
Power input	100-240VAC 50Hz/60Hz
Signal input	USB/BT/OPT/IIS/AES/COAX
Line Out output	XLR/RCA
Other connectors	12V Trigger In (3.5mm jack)
	12V Trigger Out (3.5mm jack)
Bluetooth range	>10M
Display	2inch LCD
Standby power consumption	<1.7W
Power consumption	<6.5W

3. Input range

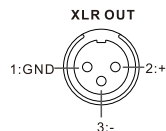
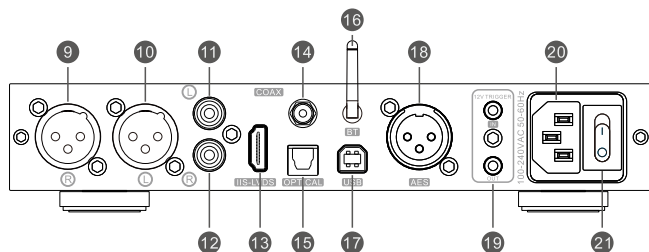
USB IN	PCM 44.1kHz-768kHz/16bit-32bit
	DSD DSD64-DSD512 (Native) , DSD64-DSD256 (DoP)
	PEQ 44.1kHz-192kHz/16bit-24bit
IIS IN	PCM 44.1kHz-768kHz/16bit-32bit
	DSD DSD64-DSD512 (Native) , DSD64-DSD256 (DoP)
	PEQ 44.1kHz-192kHz/16bit-24bit
COAX/OPT/AES IN	PCM 44.1kHz-192kHz/16bit-24bit
	DSD DSD64 (DoP)
	PEQ 44.1kHz-192kHz/16bit-24bit
BT IN	AAC/SBC/APTX/APTX HD/APTX-Adaptive/LDAC
	PEQ 44.1kHz-96kHz/16bit-24bit

4. Parts and names

Front panel



Rear panel



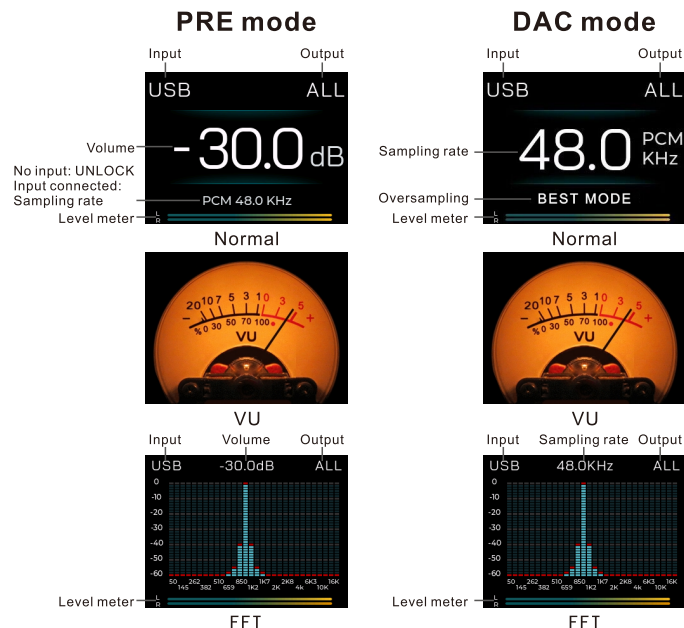
1. Power switch/SEL
Short press to power on; Press and hold to enter standby mode; The function of short press at power on can be customized. Please set it at [Setup Menu-Advanced-Button].
2. Screen
3. Remote control receiver
4. Menu
See "7. Setup Menu", below.
5. Input channel switching
6. Home page switching
7. Volume up
8. Volume down
9. Right channel balanced XLR output
10. Left channel balanced XLR output
11. Left channel single-ended RCA output
12. Right channel single-ended RCA output
13. IIS input
14. Coaxial SPDIF input
15. Optical SPDIF input
16. Bluetooth input
17. USB input
18. AES input
19. 12V Trigger IN/OUT (3.5mm jack)
The 12V Trigger IN/OUT allows the Centaurus to be activated by other devices or to activate other devices via a 3.5mm AUX cable. The upstream device connected to Trigger In can control the power on/standby of Centaurus, and the downstream device connected to Trigger Out can be controlled by Centaurus.
*Before using the Trigger IN function, you need to press the AUTO button on the remote to set the On/Off trigger mode to "12V".
20. Power input (AC 100-240V 50Hz/60Hz)
21. Power switch

Display

There are three types of home page displays: Normal, VU and FFT, which can be switched by touching the  button on the front panel or set in the menu [Setup Menu - Display - Home]. The home page display in DAC mode and PRE mode will be slightly different. [Setup menu-Advanced-DAC mode]

PRE mode: Volume is adjustable.

DAC mode: Centaurus keeps the maximum volume output and the volume is not adjustable.



*VU Meter, FFT and Level meter monitor or reflect Centaurus's output level. (They won't be affected by the volume in PRE mode.)

Centaurus has 3 output modes: SE, BAL and ALL [Setup menu- Output select]. In SE output mode, the VU Meter, FFT and Level meter reflect RCA output level. In BAL/ALL mode, the output level of XLR is reflected.

*VU Meter, FFT and Level meter do not support DSD512.

Remote control



See "5. PEQ config" in the "Setup Menu", below.

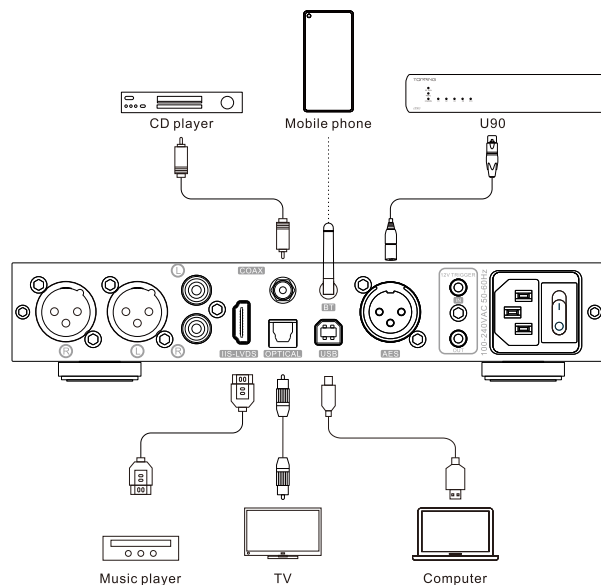
See "4. On/Off trigger" in the "Setup Menu", below.

See "1-3 Brightness" in the "Setup Menu", below.

5. Connection

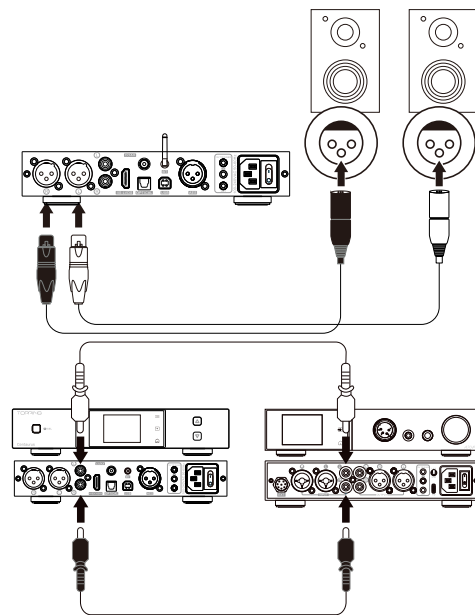
Connect to the input source

Support IIS, USB, Coaxial, Optical, Bluetooth, AES input.



Connect to amplifier or active speakers

Use XLR or RCA cables to connect to amplifiers or active speakers. In order to avoid damage to your devices, please turn off the amplifier or active speakers before you connect them to Centaurus.



6. Operation

Power on & off / standby operation

(1) Power on & off

Press the power switch on the rear panel to turn the Centaurus on or off.

(2) Standby setting

When it is working, press and hold the power button on the front panel to enter standby state and press to exit standby state when it is standby. Or you can use the remote control.

Volume setting

(1) Mute and unmute

Press the mute button on the remote control to mute Centaurus, press the mute button again or adjust the volume to exit mute state.

(2) Volume adjusting

You can press the  or  button on the front panel or press the  or  button on the remote control to adjust the volume. Note that long pressing the  or  button on the remote control will quickly change the volume, so please be careful in order to protect your hearing.

Note: Volume is fixed to 0dB in DAC mode and volume adjusting is invalid in this mode. [Setup menu-Advanced-DAC mode]

Input channel switching

Touch the  button on the front panel or press the  or  button on the remote control to switch the input circularly.

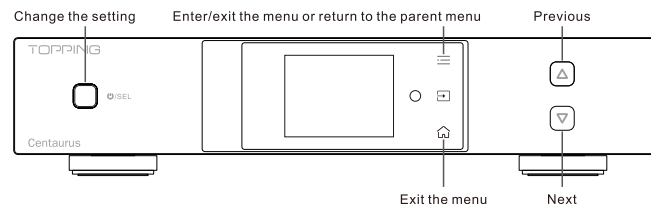
Output channel switching

Press the  button on the remote control to switch the output in cycle. You could also switch the output channel by pressing the  button on the front panel, but note that you need to set [Setup Menu-Advanced-Button] to "Output select" (Default).

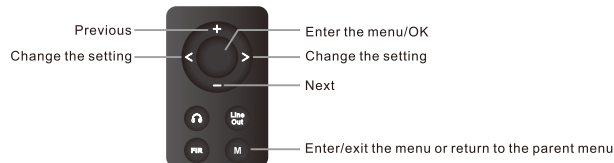
7. Setup Menu

Enter menu and change settings

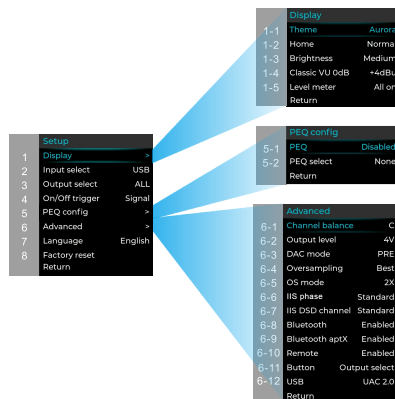
Buttons on front panel



The remote control



Menu Overview



1. Display

1-1 Theme

Multiple options available, default Aurora.

1-2 Home

Choose home page

Normal (Default) , VU, FFT

1-3 Brightness

Low, Medium (Default) , High, Auto

Auto has the same brightness as Medium. The difference is that when there is no operation after 30 seconds under Auto mode, the screen will be automatically turned off and only display the current input. You can press any button to light up the screen.

USB

1-4 Classic VU 0dB

Set 0dB reference voltage for VU meter. For example, if set to +4dBu, when the pointer swings to 0dB, the current output level of the Centaurus is +4dBu.

+4dBu (Default) , +10dBu

1-5 LEVEL METER

All on (Default) , Normal page, FFT page, All off

2. Input select

USB (Default) , OPT, COAX, AES, BT, IIS

3. Output select

SE: only RCA output

BAL: only XLR output

ALL: Both RCA and XLR can have output (Default)

4. On/Off trigger

Signal: Input signal will trigger the device to turn on, but if the current input is not connected or input signal is invalid in 1 minute, it will automatically enter the standby state. Once having detected valid signal, it will automatically return to working state. (Default)

12V: 12V signal will trigger the device to turn on. When Centaurus's Trigger In is connected to another device's 12V Trigger Out, Centaurus's on/standby state can be controlled through this device. The Centaurus will remain in standby state until Trigger In detects the signal change from 0V to 12V. When changing back to 0V, the Centaurus will return to standby state.

Off: Disabled this function.

5. PEQ config

5-1 PEQ

Enabled (Default) , Disabled

PEQ Support Range	
USB IN	44.1kHz-192kHz/16bit-24bit
IIS IN	Unsupported
COAX/OPT/AES IN	44.1kHz-192kHz/16bit-24bit
BT IN	44.1kHz-96kHz/16bit-24bit

5-2 EQ select

NULL: No unit configuration (Default)

Unused: No configuration is selected

1, 2, 3, 4, and 5 correspond to the adjusted frequency response curves for TOPPING Tune's device configuration.

Note: On the TOPPING Tune, you can save local configuration of frequency response curves to the Centaurus, and the Centaurus can use this configuration offline. Exit TOPPING Tune to switch configurations on the device.

6. Advanced

6-1 Channel balance

Setting range: C (Balance) , L+0.5~9.5dB or R+0.5~9.5dB. (Default: C)

*When using the buttons on the front panel, press the  button to enter the setting, press the  or the  button to set the value, and press the  button again to exit the setting.

6-2 Output level

Maximum output level at 0dBFS

4V (Default) , 5V

6-3 DAC mode

PRE: Volume is adjustable. (Default)

DAC: Keep the maximum volume output and the volume is not adjustable.

6-4 Oversampling

OS: Oversampling is on. Oversampling can reduce the quantization error, lower the noise, improve the SNR and dynamic range, and thus improve the sound quality. You could set the oversampling multiplier in the OS mode setting below.

NOS: Oversampling is off. Centaurus processes the input digital audio signal directly without any sample rate processing. This mode preserves the original characteristics of the audio signal.

Best: Centaurus automatically selects the appropriate oversampling rate based on the sampling rate of the source and the internal processing capacity of the decoder. (Default)

Note: Centaurus displays the input signal sample rate, not the sample rate after oversampling

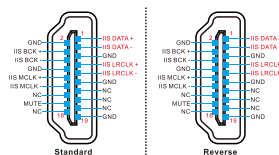
6-5 OS mode

Oversampling rate = base frequency of input signal sampling rate * multiplier

1X, 2X (Default) , 4X, 8X, 16X

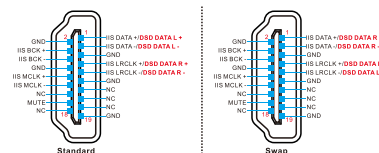
6-6 IIS phase

Standard (Default) , Reverse



6-7 IIS DSD channel

Standard (Default) , Swap



6-8 Bluetooth

Enabled (Default) , Disabled

6-9 Bluetooth aptX

Enabled (Default) , Disabled

The Centaurus supports multiple Bluetooth codecs. When set to OFF, the APTX-Adaptive will be disabled, allowing the use of other codecs (depending on the phone) .

6-10 Remote

Enabled (Default), Disabled

6-11 Button

Customize the function of short press ☐ Ⓢ/SEL at power on Output select (Default) , Home select, Brightness select, Dim the screen, Mute, Input select

6-12 USB

UAC2.0 (Default), UAC1.0

7. Language

English、中文

8. Factory reset

Select factory reset will have a pop-up, select Yes/No (blue for selected) , then press the middle button on the remote or the front-panel ☐ Ⓢ/SEL button to confirm.

8. Trouble shooting

If there are problems during use, please find the corresponding solutions through the following links.

<https://www.toppingaudio.com/faq>

Finding Method: Window OS enters the search by pressing Ctrl and F (Mac OS presses the command and F) . Then enter the device model to jump to FQA of the device.

If you still have problems or questions, please contact us: service@tpdz.net

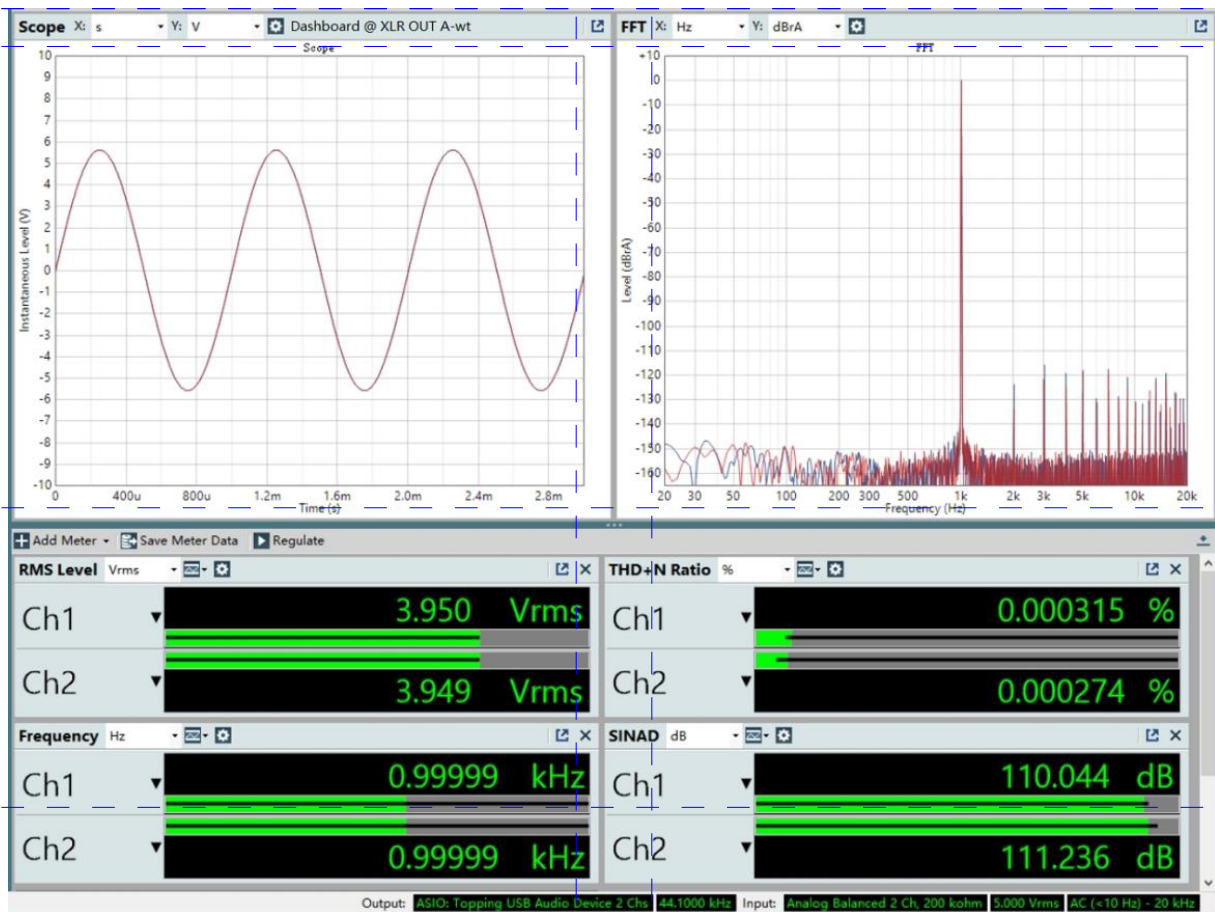
9. Precautions

1. Do not keep the unit in a hot, humid environment or hit the unit strongly.
2. Opening the case instantly voids the warranty!
3. Indoor use only.
4. Topping accepts no liability for any loss or damage arising directly or indirectly from the failure of Centaurus.
5. For improvement purposes, specifications subject to changes without prior notice.

10. Specifications

Centaurus DAC parameters (LineOut/USB In@96kHz)		
	RCA	XLR
THD+N @A-wt	<0.0005% @1kHz	<0.0005% @1kHz
THD @No-wt 90kBw	<0.0005% @20-20kHz	<0.0005% @20-20kHz
SNR @A-wt	126dB @1kHz	130dB @1kHz
Dynamic Range @A-wt	126dB @1kHz	130dB @1kHz
Frequency Response	20Hz-20kHz (±0.6dB)	20Hz-20kHz (±0.6dB)
	20Hz-40kHz (±2.2dB)	20Hz-40kHz (±2.2dB)
Output Level	2.1Vrms @0dBFS (4V Mode)	4.2Vrms @0dBFS (4V Mode)
	2.6Vrms @0dBFS (5V Mode)	5.2Vrms @0dBFS (5V Mode)
Noise @A-wt	<1.2uVrms	<1.4uVrms
Channel Crosstalk	-121dB @1kHz	-130dB @1kHz
Channel Balance	0.3 dB	0.3 dB
Output Impedance	50Ω	100Ω

*Note: The above data is the result of the test in TOPPING laboratory with 4V output mode.



SNR @ XLR OUT

Signal to Noise Ratio

2024/7/3 18:00:51.378



Ch1

131.724 dB

Ch2

131.621 dB

0 20 40 60 80 100 120 140

Signal to Noise Ratio (dB)

DNR @ XLR OUT

Dynamic Range - AES17

2024/7/3 18:03:55.246



Ch1

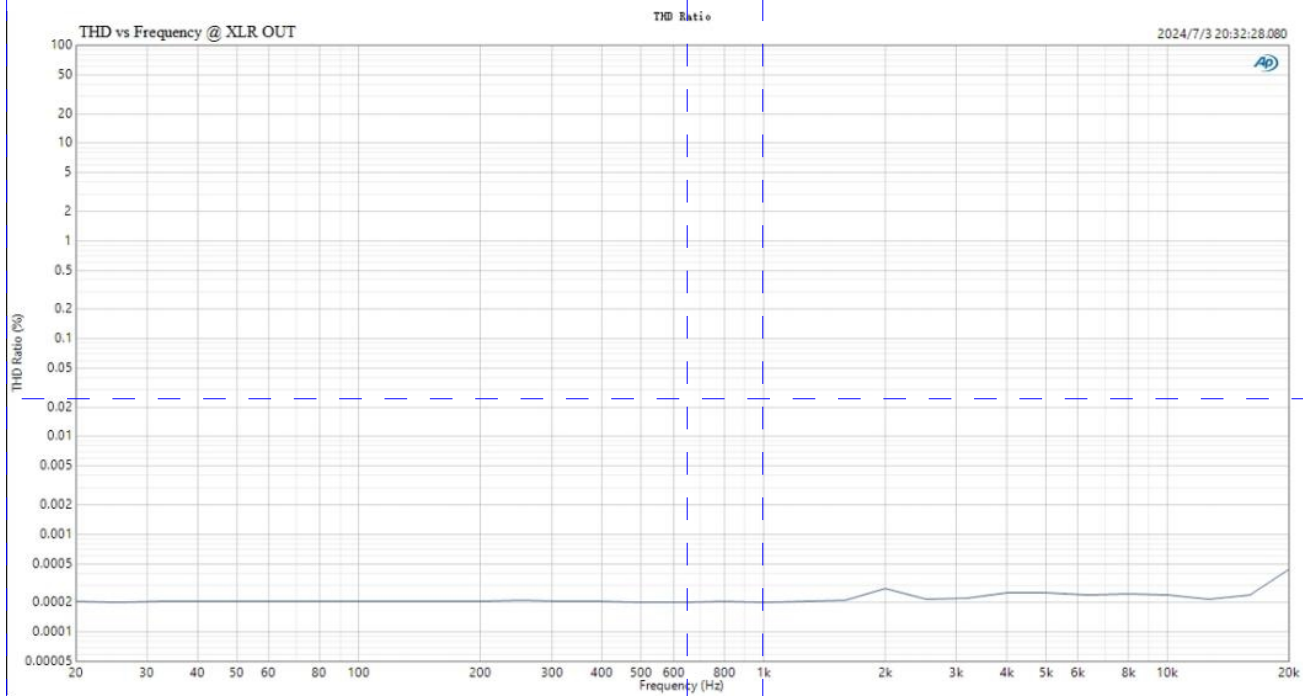
131.727 dB

Ch2

131.529 dB

0 20 40 60 80 100 120 140

Dynamic Range - AES17 (dB)



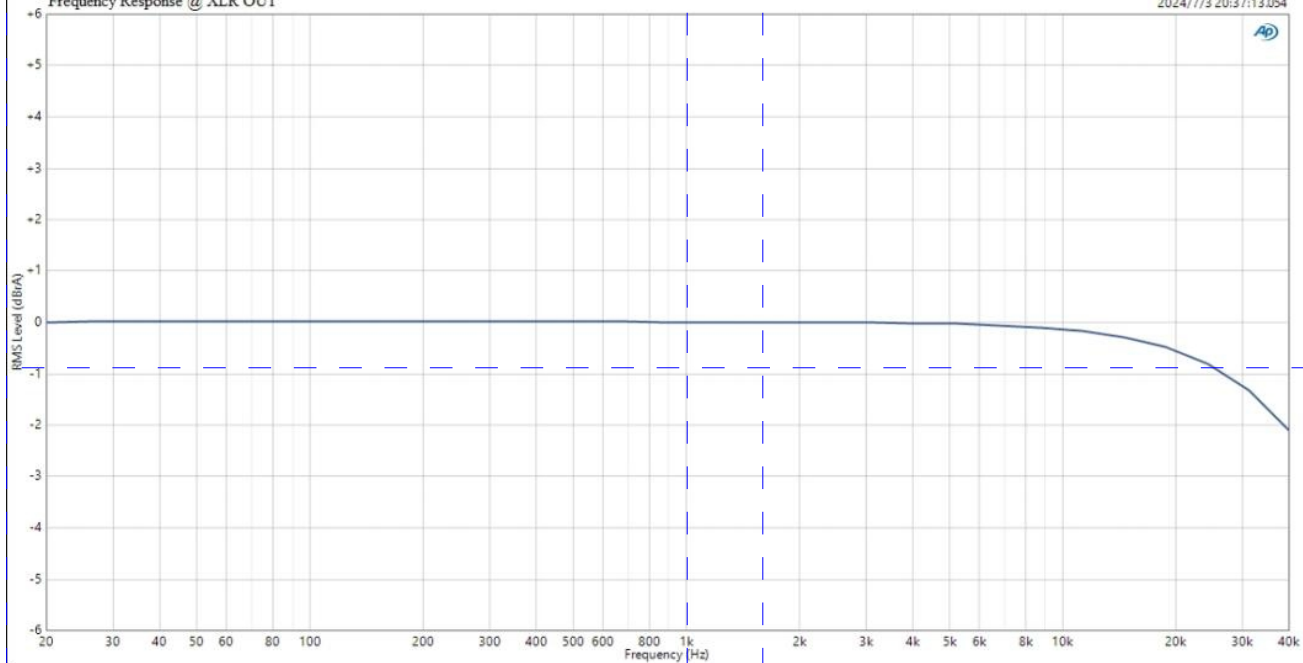
Data

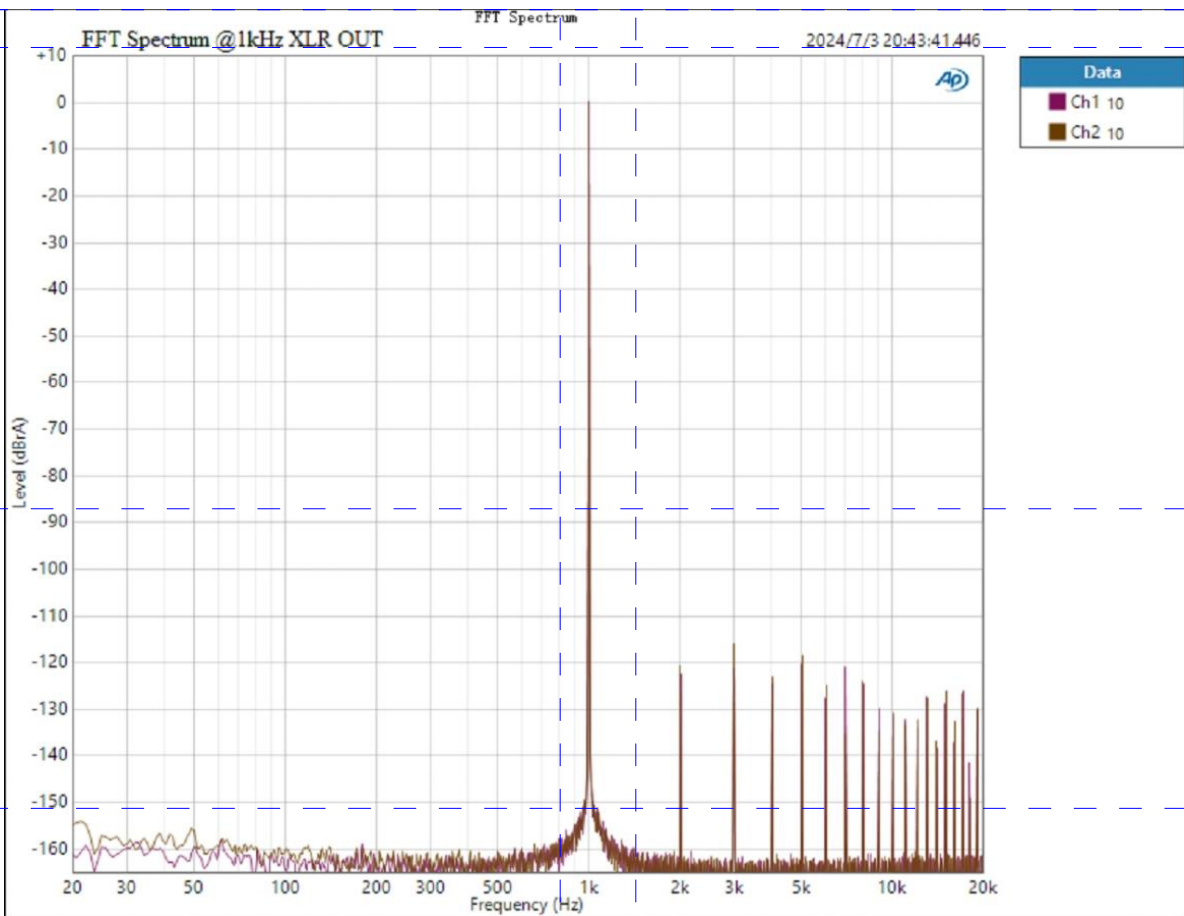
Ch1 10

RMS Level

Frequency Response @ XLR OUT

2024/7/3 20:37:13.054

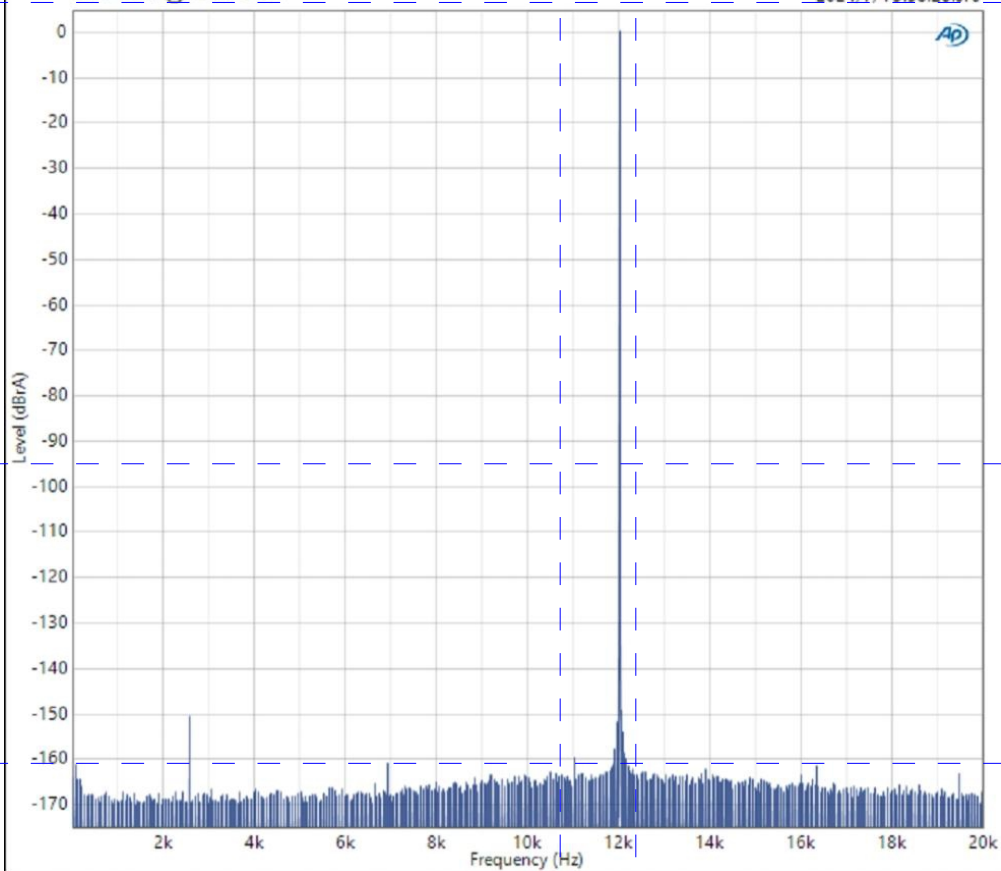




Jitter Test @ XLR OUT

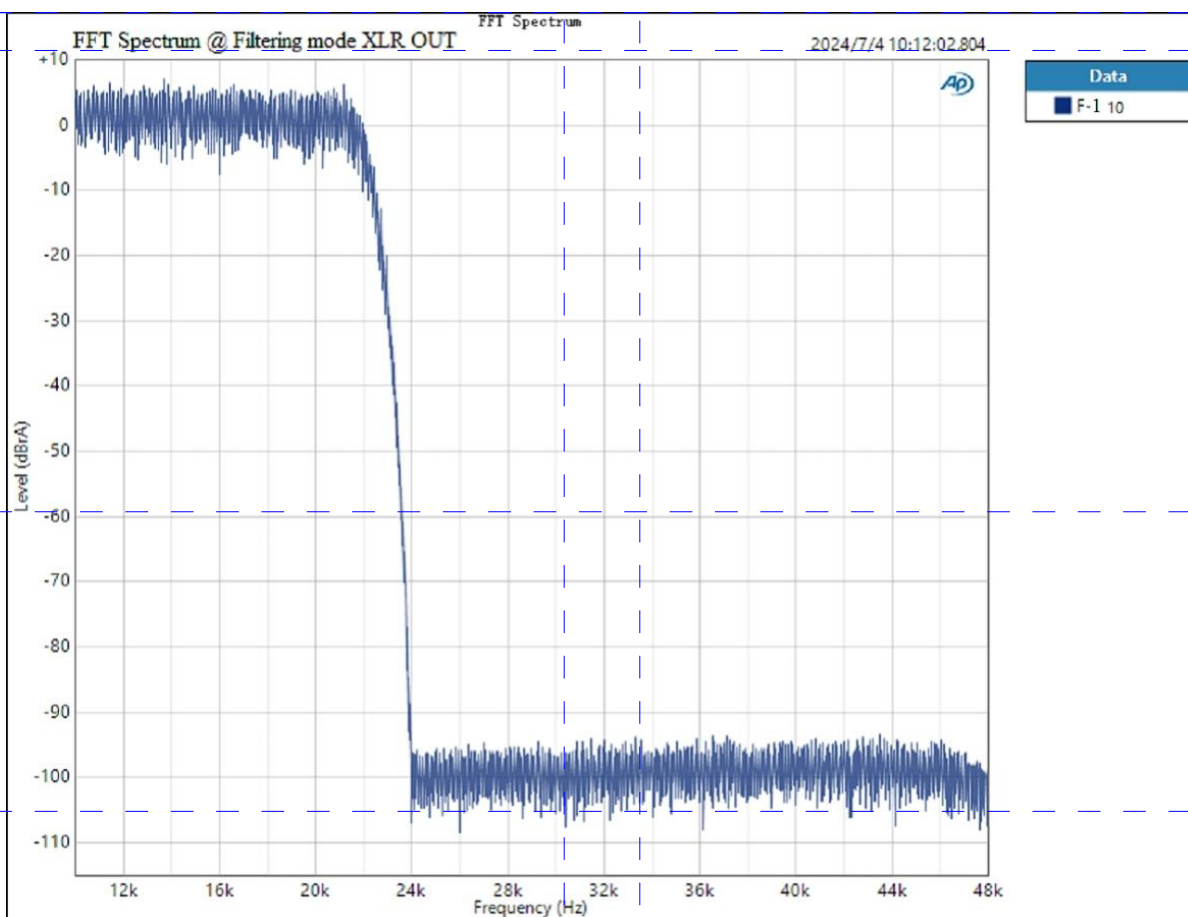
FFT Spectrum

2024/7/4 9:58:20.670



Data

Ch2 8



FFT Spectrum

2024/7/4 10:25:26.719

Mutitone @ XLR OUT

