

TOPPING

A900

使用手册 

User Manual 

Model: TP138
V1.0

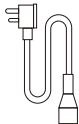
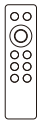
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1. Contents list

A900	x 1
Remote control	x 1
6.35mm to 3.5mm adaptor	x 1
AC cable	x 1
Quick start guide	x 1
Product information card	x 1

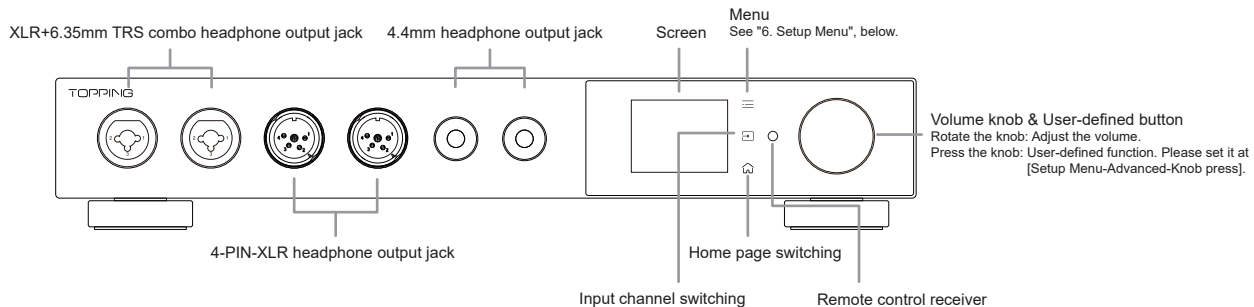


2. Attribute

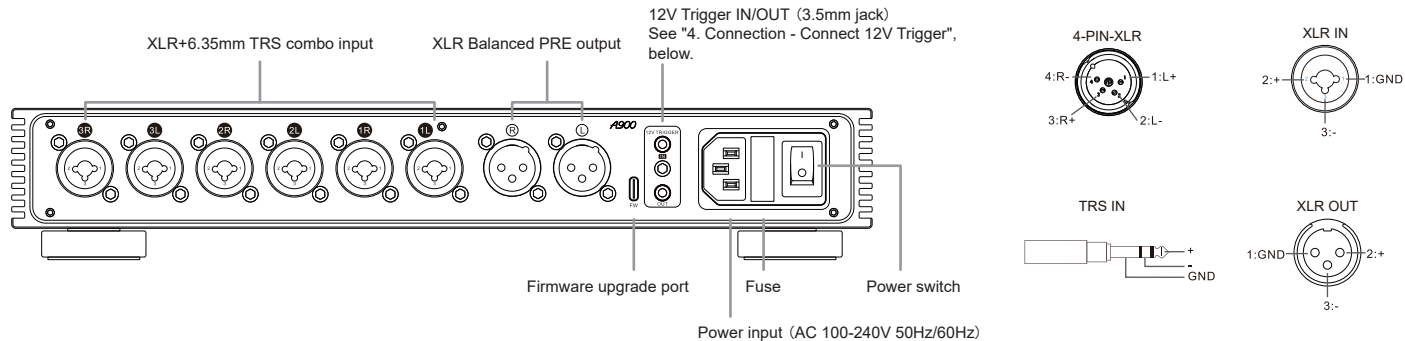
Measured	33.0cmx5.7cmx20.0cm (Include protruding parts)
Weight	2.62 Kg
Power input	100-240VAC 50Hz/60Hz
Gain	L/M/H
Signal input	3 x BAL Stereo (Combo: XLR/6.35mm TRS)
Headphone Amplifier output	2 x 6.35mm headphone output jack (Combo: TRS)
	2 x 4.4mm headphone output jack
	2 x 4-PIN-XLR headphone output jack
	1 x 3-PIN-XLR Stereo headphone output jack (Combo: XLR)
PRE output	1 x BAL Stereo (XLR)
Other connectors	12V Trigger In (3.5mm jack)
	12V Trigger Out (3.5mm jack)
Display	2inch LCD
Control	Touch buttons + multifunction knob + remote control
Standby power consumption	<3W
Power consumption	<11W

3. Parts and names


Front panel

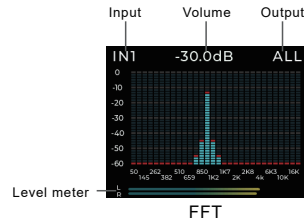
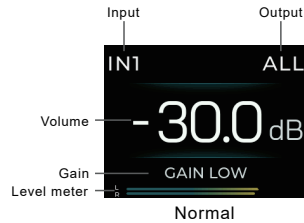


Rear panel



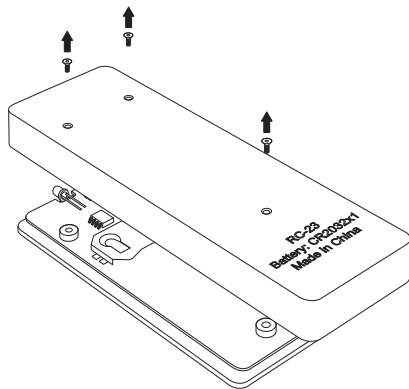
Display

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].

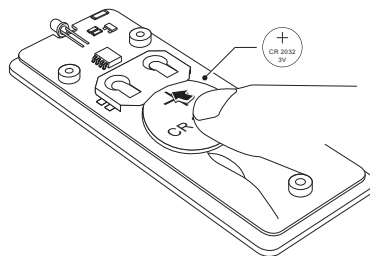


*VU Meter, FFT and Level meter monitor or reflect audio input level of current source.

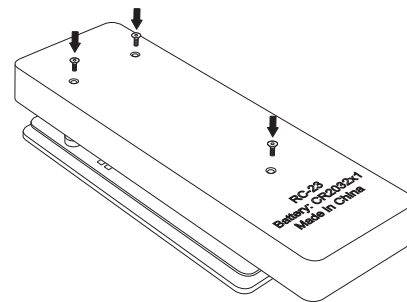
Install remote control battery



1. Use the included H1.27 screwdriver to remove the three screws on the back.

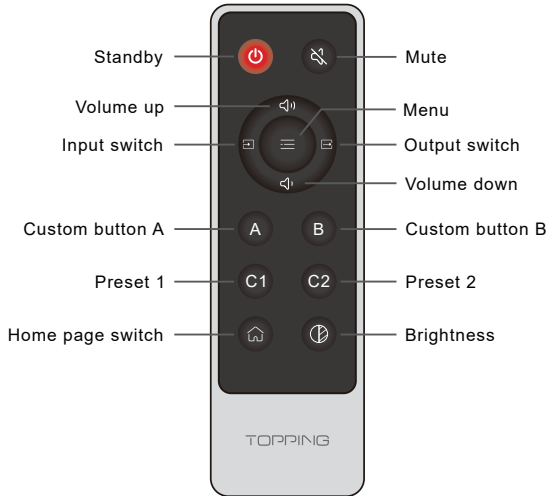




2. Insert the CR2032 button cell (not included) in the direction of the arrow .



3. Install according to the original path.

Remote control



Note: The RC23 remote control can be used to operate either D900 or A900. To switch the device it controls, press and hold both the  and  buttons until the indicator light flashes twice.



The function of these two buttons is customizable. See "Advanced" in the "Setup Menu", below.



Operation: Press and hold the C1 or C2 button for 3 seconds to save the current settings. Simply press C1 or C2 to instantly recall the corresponding preset.

Saved Settings Include: All parameters in the settings menu, such as input channel, output channel, volume level, etc.

Practical Applications:

1. Seamless switching between usage scenarios

This feature is suitable for users who have more than one usage scenario, such as the two shown below. Using C1&C2 buttons to save and load settings may free you from changing settings one by one when you want to change usage scenario.

A900 settings	Usage scenario 1: Connect with headphone amp	Usage scenario 2: Connect with speaker
Input channel	IN1	IN2
Output channel	HPA ALL	PRE
Volume	-50dB	-30dB

2. Quick recovery from accidental changes

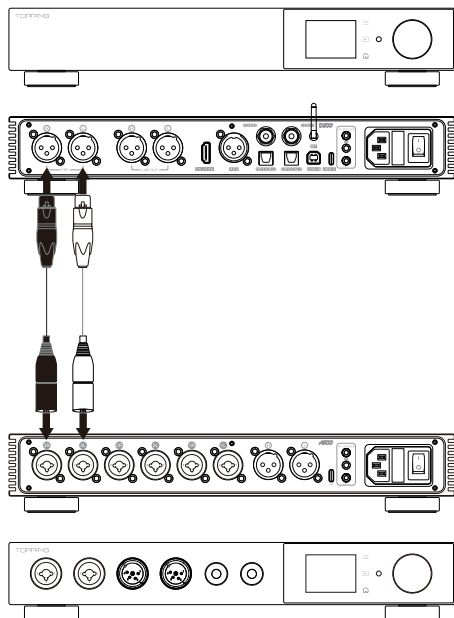
If your settings are accidentally changed, don't worry. Simply press the C1 or C2 button to instantly restore your previously saved configuration — fast and reliable.



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

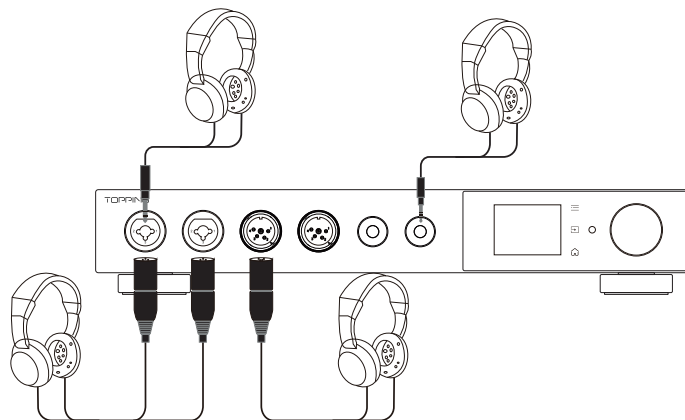
4. Connection

Connect to the input source



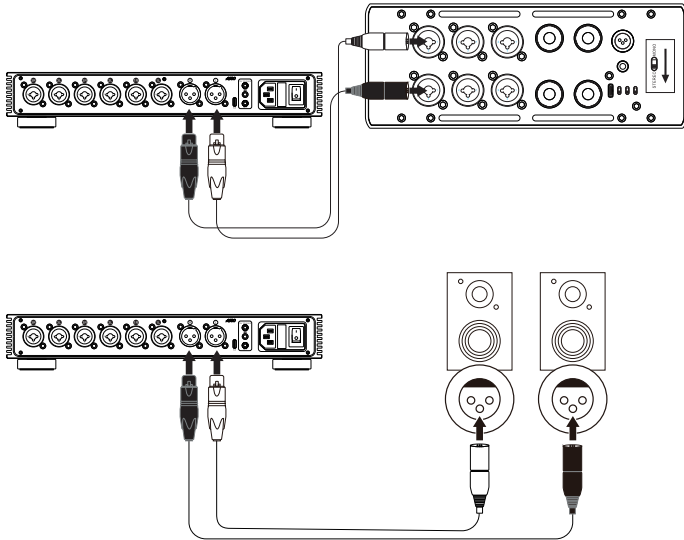
Connect to headphone

Four types of headphone jack are available: 3-PIN-XLR, 4-PIN-XLR, 4.4mm and 6.35mm.



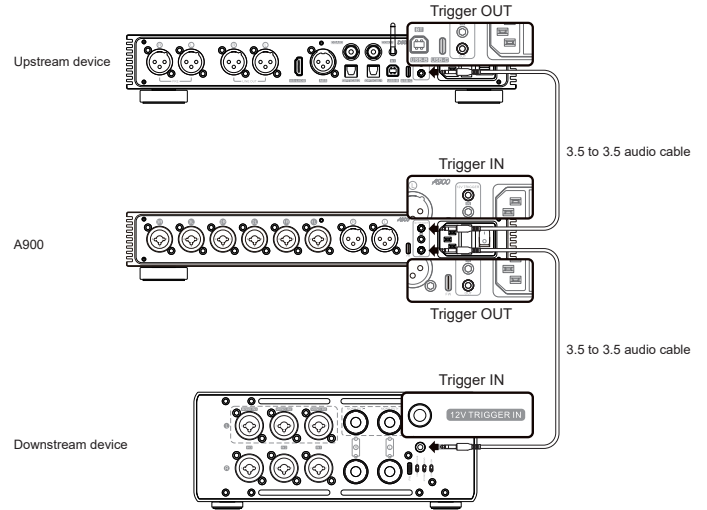
Connect to amplifier or active speaker

Use XLR cable to connect to amplifier or active speaker. In order to avoid damage to your devices, please turn off the amplifier or active speakers before you connect them to A900.



Connect 12V Trigger

The 12V Trigger IN/OUT allows the A900 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 A900, and the downstream device connected to Trigger Out can be controlled by A900.

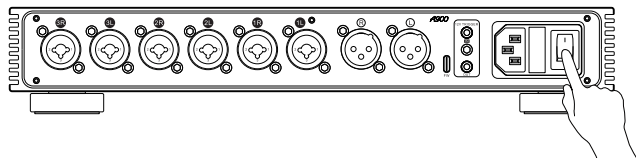


5. Operation

Power on & off / standby operation

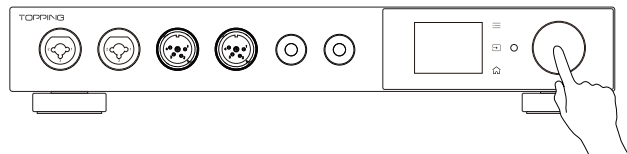
1. Power on & off

Press the power switch on the rear panel to turn the A900 on or off.



2. Standby setting

When it is working, press and hold the volume knob 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 A900, press the mute button again or adjust the volume to exit mute state.

2. Volume adjusting



2. You can press the  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.

Input settings

1. Input option setting

Since the device supports multiple input channels, switching between them may take some time. To improve efficiency, it is recommended that you preselect frequently used input channels in [Setup menu-Input settings-Input option]. This can help reduce the time required for switching input sources. IN1 IN2 IN3

2. Input channel switching

After configuring the input options, you can press the  button on the front panel or press  button on the remote control to switch the input circularly.


Output settings

1. Output option setting

Since the device supports multiple output channels, switching between them may take some time. To improve efficiency, it is recommended that you preselect commonly used output channels in [Setup menu-Output settings-Output option], which will help reduce the time required for switching.

Available output channels include: ALL HPA ALL PRE 6.35-1 6.35-2
 XLR-3P XLR-4P-1 XLR-4P-2 4.4-1 4.4-2

2. Output channel switching

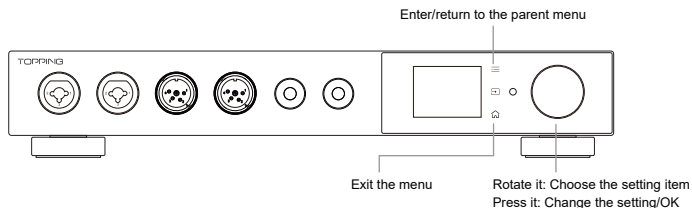
After configuring the output options, you can press the knob on the front panel or press  button on the remote control to switch the output circularly.

*By default, the knob press function is set to "Output select." If needed, you can change this setting in [Setup-Advanced-Knob press].

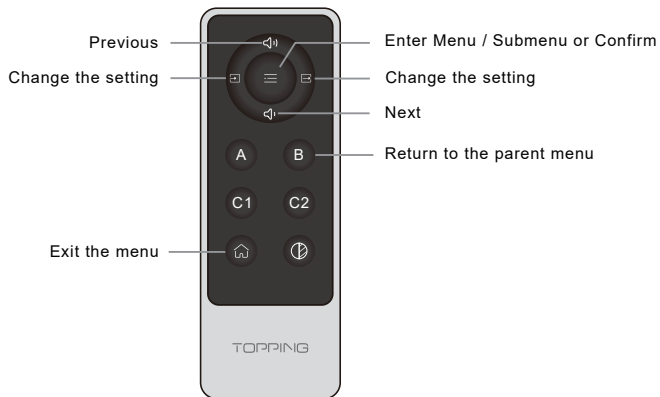
6. Setup Menu

Enter menu and change settings

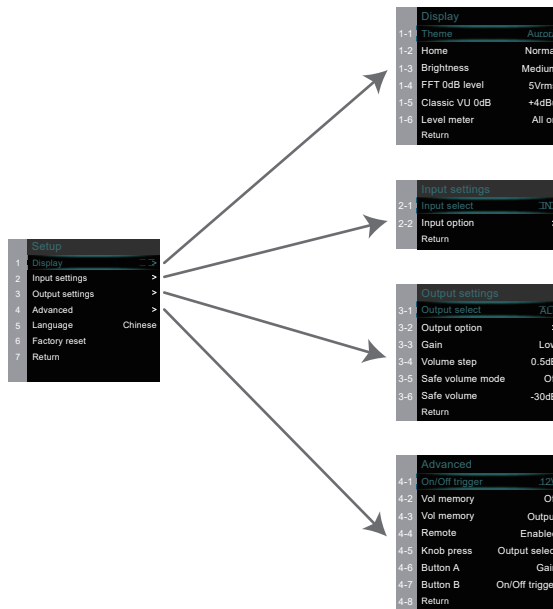
1. Buttons on front panel



2. 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.



1-4 FFT 0dB level

Set 0dB reference voltage for the FFT page.

2Vrms, 5Vrms (Default), 10Vrms

1-5 Classic VU 0dB

Set 0dB reference voltage for VU meter. For example, if set to +4dBu, when the pointer swings to 0dB, the current input level of the A900 is +4dBu.

+4dBu (Default), +10dBu

1-5 Level meter

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

2. Input settings

2-1 Input select

IN1 (Default) /Input option

2-2 Input option

Since the device supports multiple input channels, switching between them may take some time. To improve efficiency, it is recommended that you preselect frequently used input channels in [Setup menu-Input settings-Input option]. This can help reduce the time required for switching input sources.

IN1

IN2

IN3

3. Output settings

3-1 Output select

ALL (Default) /Output option

3-2 Output option

Since the device supports multiple output channels, switching between them may take some time. To improve efficiency, it is recommended that you preselect commonly used output channels in [Setup menu-Output settings-Output option], which will help reduce the time required for switching.

Available output channels include:

- | | | | |
|---|---|---|-----------------------------------|
| <input checked="" type="checkbox"/> ALL | <input checked="" type="checkbox"/> HPA ALL | <input checked="" type="checkbox"/> PRE | <input type="checkbox"/> 6.35-1 |
| <input type="checkbox"/> 6.35-2 | <input type="checkbox"/> XLR-3P | <input type="checkbox"/> XLR-4P-1 | <input type="checkbox"/> XLR-4P-2 |
| <input type="checkbox"/> 4.4-1 | <input type="checkbox"/> 4.4-2 | | |

3-3 Gain

Set the gain of the HPA output and PRE output.

Low (Default) , Medium, High

3-4 Volume step

0.5dB (Default) , 1dB

3-5 Safe volume mode

On, Off (Default)

When switching input/output channels or powering on, if the current volume is higher than the safe volume, the volume will be automatically changed to the safe volume value if you don't press the middle button on the remote control/the knob on the front panel within 10s.

3-6 Safe volume

Customized settings from -80.0dB to -0.0dB (Default: -30dB)

When using the knob, press the knob to enter the setting, rotate the knob to set the value, and press the knob again to exit the setting.

4. Advanced

4-1 On/Off trigger

On: 12V signal will trigger the device to turn on. When A900's Trigger In is connected to another device's 12V Trigger Out, A900's on/standby state can be controlled through this device. The A900 will remain in standby state until Trigger In detects the signal change from 0V to 12V. When changing back to 0V, the A900 will return to standby state. (Default)

Off: Disabled this function.

4-2 Vol memory

Follow output: The A900 will remember the volume and gain for each output channel and automatically restores them when the channel is selected again. (Default)

Follow input: The A900 will remember the volume and gain for each input channel and automatically restores them when the channel is selected again.

Disabled: Disabled this function.

4-3 Remote

Enabled (Default) , Disabled

4-4 Knob press

Customize the function of the press knob.

Output select (Default) , Home select, Brightness, Dim screen, Mute, Gain, Safevol mode, On/Off trigger, Input select

4-5 Button A

Customizable function for remote control button A

Output select , Home select, Brightness, Dim screen, Mute, Gain (Default) , Safevol mode, On/Off trigger, Input select

4-6 Button B

Customizable function for remote control button B

Output select, Home select, Brightness, Dim screen, PEQ select, On/Off trigger (Default) , Mute, Input select

5. Language

English、中文

6. Factory reset

Select factory reset will have a pop-up, select Yes/No (Selected with color) , then press the middle button on the remote or the front-panel knob to confirm.

7. 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

8. 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 A900.
5. For improvement purposes, specifications subject to changes without prior notice.

9. Specifications

A900 Headphone Amplifier specifications

	BAL IN/SE OUT	BAL IN/BAL OUT
THD+N @1kHz A-wt	<0.000060% @Output=500mW (32Ω) <0.000055% @Output=80mW (300Ω)	<0.000060% @Output=500mW (32Ω) <0.000055% @Output=80mW (300Ω)
THD @20-20kHz 90KBW	<0.00006% @Output=500mW (32Ω) <0.00005% @Output=80mW (300Ω)	<0.00004% @Output=500mW (32Ω) <0.00003% @Output=80mW (300Ω)
SNR @MAX OUT 1kHz A-wt	143dB	151dB
Dynamic Range @1kHz A-wt	143dB	151dB
Frequency Response	20Hz-40kHz (±0.05dB) 10Hz-200kHz (±0.1dB)	20Hz-40kHz (±0.05dB) 10Hz-200kHz (±0.1dB)
Output Level	30 Vpp @G=L 30 Vpp @G=M 30 Vpp @G=H	60Vpp @G=L 60Vpp @G=M 60Vpp @G=H
AP Measured Noise Level @A-wt	<0.7uVrms @G=L <0.9uVrms @G=M <1.5uVrms @G=H	<0.7uVrms @G=L <1.2uVrms @G=M <2.5uVrms @G=H
Actual Noise Level* @A-wt	<0.3uVrms @G=L <0.7uVrms @G=M <1.4uVrms @G=H	<0.3uVrms @G=L <1.0uVrms @G=M <2.3uVrms @G=H

*Note: The actual noise level is obtained by boosting the noise of A900 by 40dB using a low noise amplifier in front of the APx555B then dividing the measured noise by 100 times.

9. Specifications

A900 Headphone Amplifier Specifications

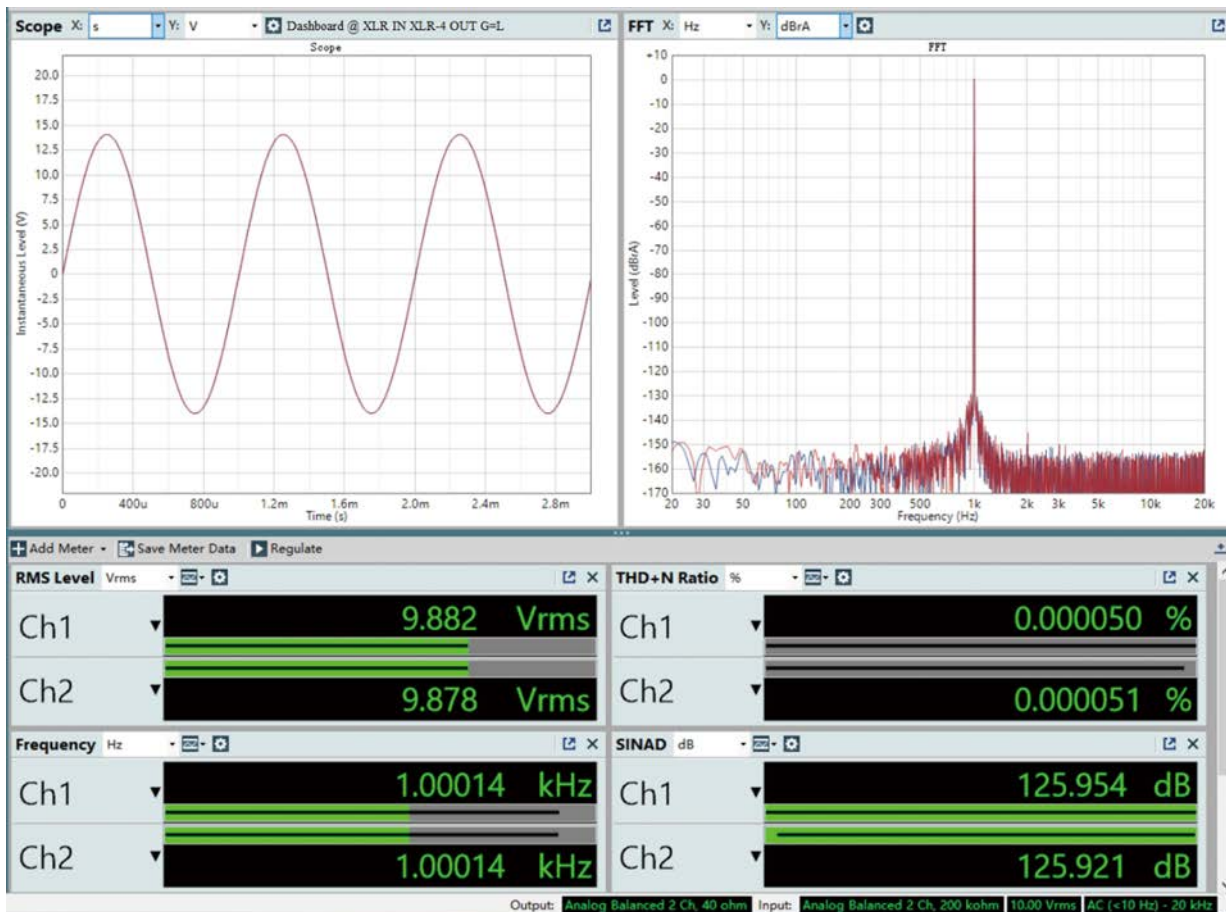
	BAL IN/SE OUT	BAL IN/BAL OUT
Channel Crosstalk @1kHz	-105dB	-153dB
Input Sensitivity	22.0Vrms @G=L 7.0Vrms @G=M 2.1Vrms @G=H	22.0Vrms @G=L 7.0Vrms @G=M 2.1Vrms @G=H
Gain	-6.1dB @G=L +4.3dB @G=M +13.8dB @G=H	-0.1dB @G=L +10.3dB @G=M +19.8dB @G=H
Output Impedance	< 0.1Ω	< 0.1Ω
Output Power	6000mW x 2 @16Ω THD+N<0.1% 3000mW x 2 @32Ω THD+N<0.1% 1550mW x 2 @64Ω THD+N<0.1% 660mW x 2 @150Ω THD+N<0.1% 330mW x 2 @300Ω THD+N<0.1% 165mW x 2 @600Ω THD+N<0.1%	22000mW x 2 @16Ω THD+N<0.1% 14000mW x 2 @32Ω THD+N<0.1% 7000mW x 2 @64Ω THD+N<0.1% 3000mW x 2 @150Ω THD+N<0.1% 1500mW x 2 @300Ω THD+N<0.1% 750mW x 2 @600Ω THD+N<0.1%
Adapter Impedance	>8Ω	

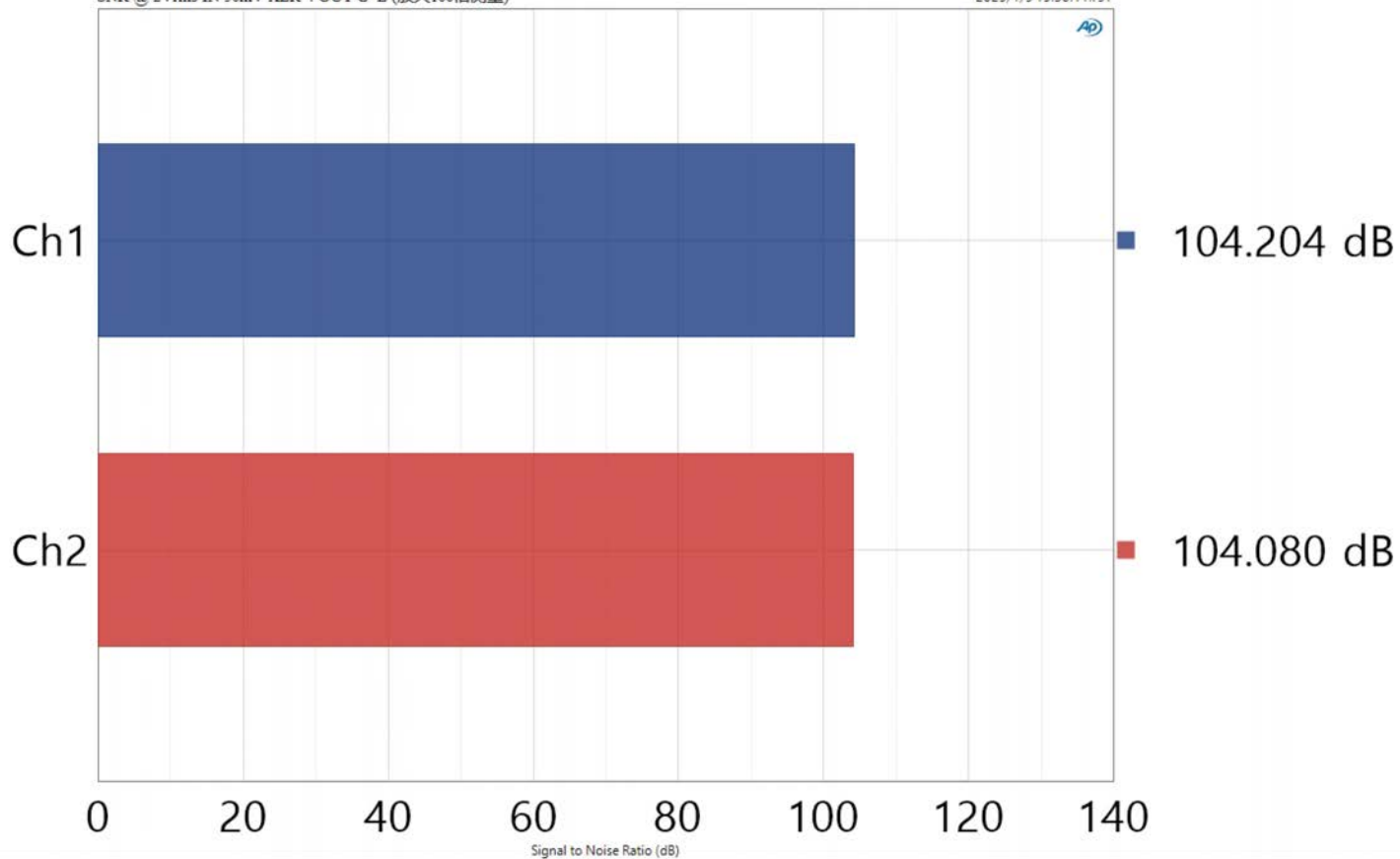
9. Specifications

A900 Pre-Amplifier Specifications

THD+N @1kHz A-wt	<0.000055%
THD @20-20kHz 90kBW	<0.00003%
SNR @MAX OUT 1kHz A-wt	151dB
Dynamic Range @1kHz A-wt	151dB
Frequency Response	20Hz-40kHz (± 0.05 dB) 20Hz-200kHz (± 0.1 dB)
Output Level	60Vpp @G=L 60Vpp @G=M 60Vpp @G=H
AP Measured Noise Level @A-wt	<0.7uVrms @G=L <1.2uVrms @G=M <2.5uVrms @G=H
Actual Noise Level* @A-wt	<0.3uVrms @G=L <1.0uVrms @G=M <2.3uVrms @G=H
Channel Crosstalk @1kHz	-153dB
Input Sensitivity	22.0Vrms @G=L 7.0Vrms @G=M 2.1Vrms @G=H
Gain	-0.1dB @G=L +10.3dB @G=M +19.8dB @G=H
Output Impedance	100 Ω

*Note: The actual noise level is obtained by boosting the noise of A900 by 40dB using a low noise amplifier in front of the APx555B then dividing the measured noise by 100 times.





SNR @ XLR IN XLR-4 OUT G=L

Signal to Noise Ratio

2024/12/28 15:21:27.149



Ch1

151.263 dB

Ch2

151.128 dB

0 20 40 60 80 100 120 140

Signal to Noise Ratio (dB)



Ch1

151.389 dB

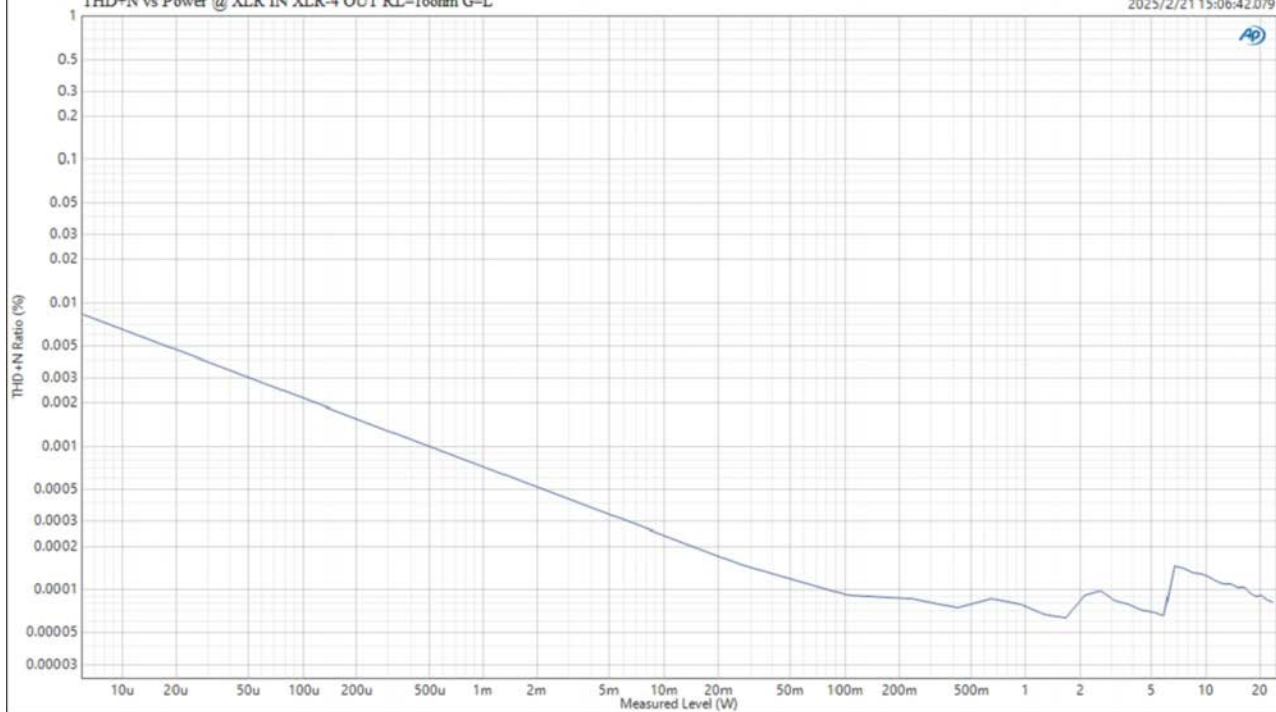
Ch2

151.285 dB

0 20 40 60 80 100 120 140

THD+N Ratio vs Measured Level

2025/2/21 15:06:42.079

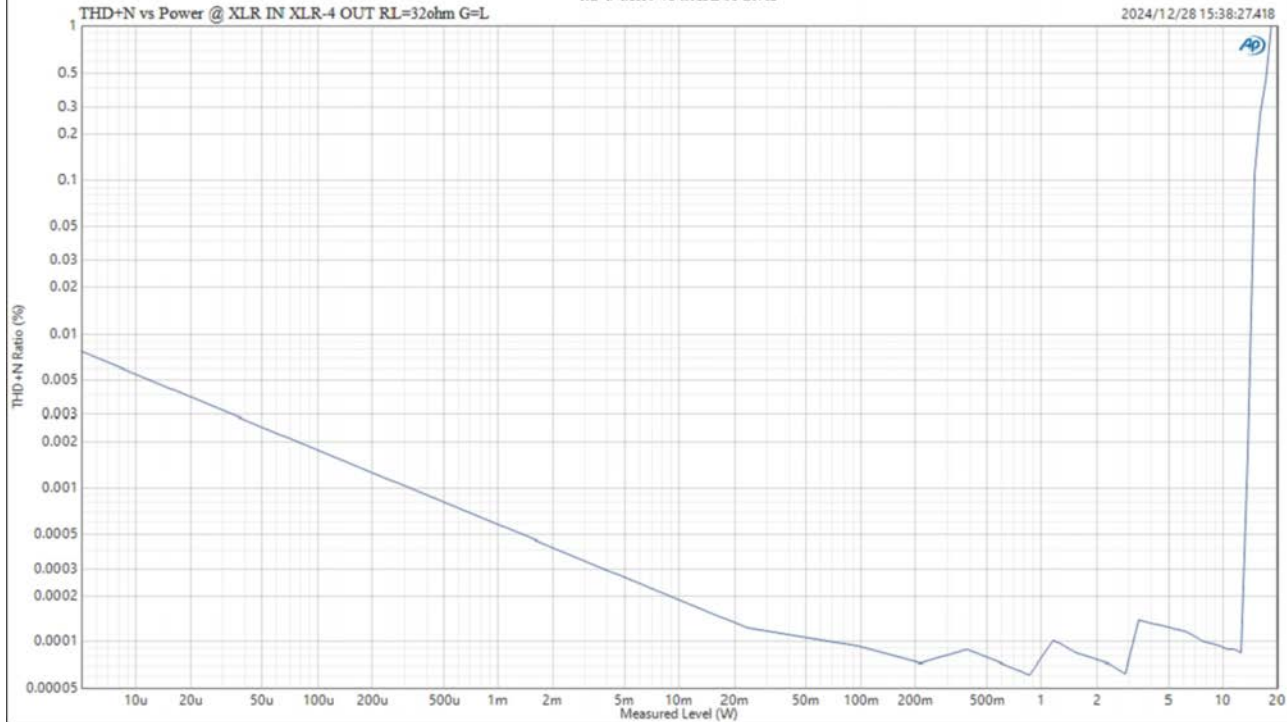


Data

Ch1 6

THD+N Ratio vs Measured Level

2024/12/28 15:38:27.418



Data

Ch1 10

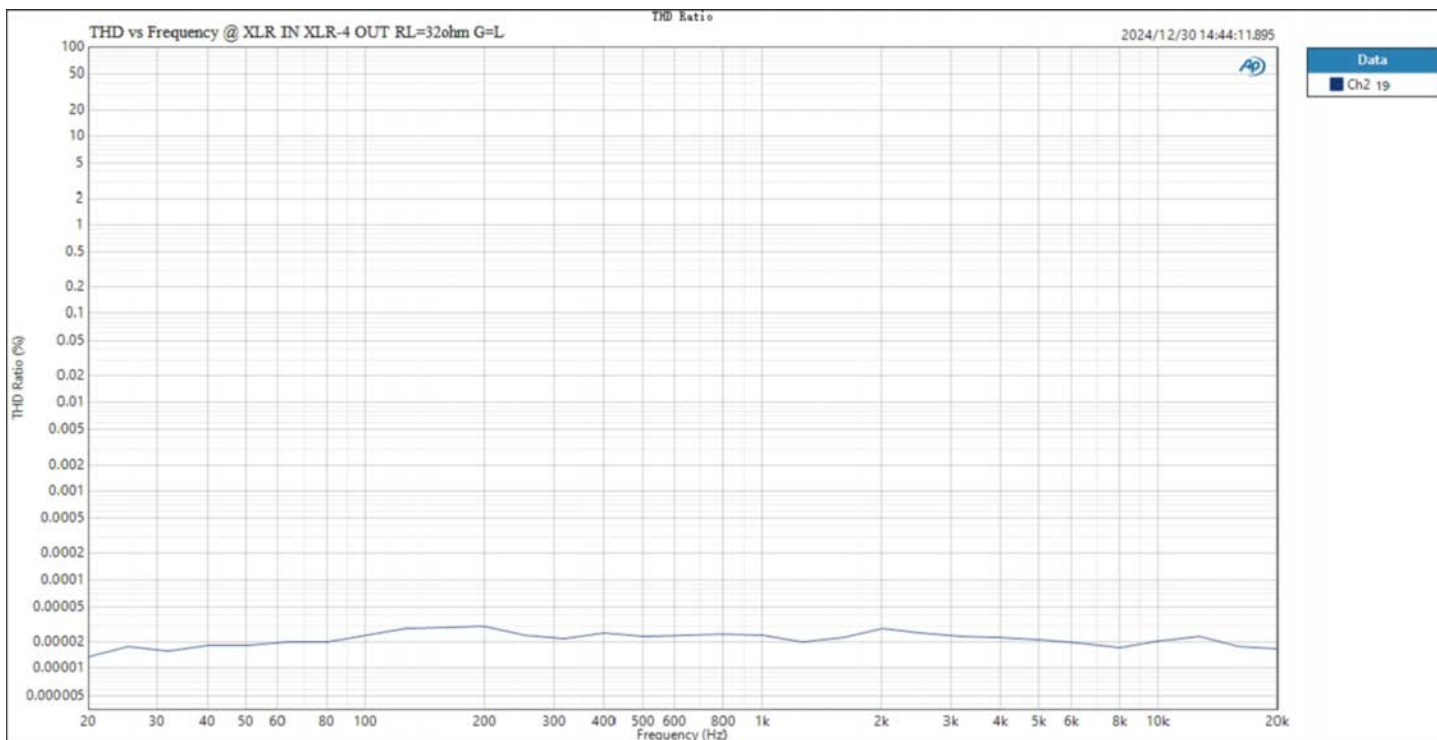
THD+N Ratio vs Measured Level

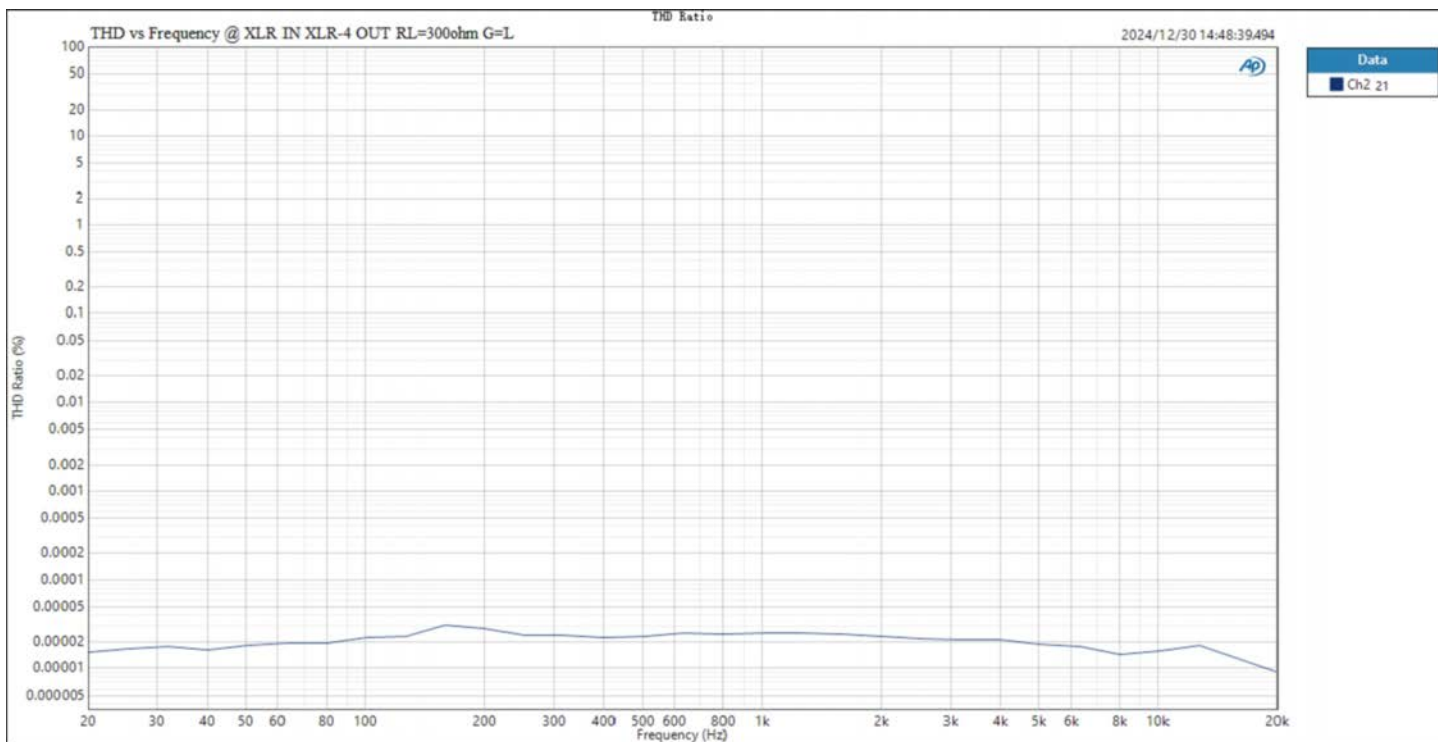
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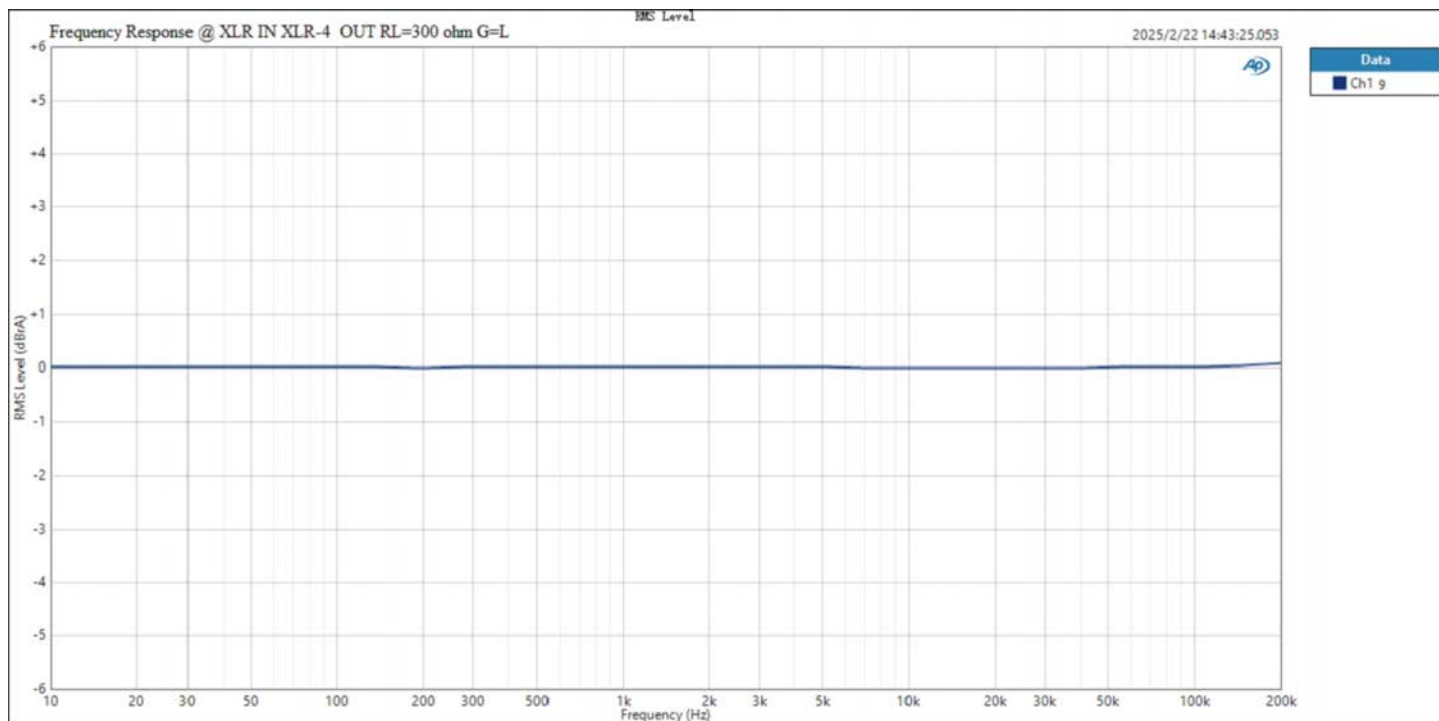


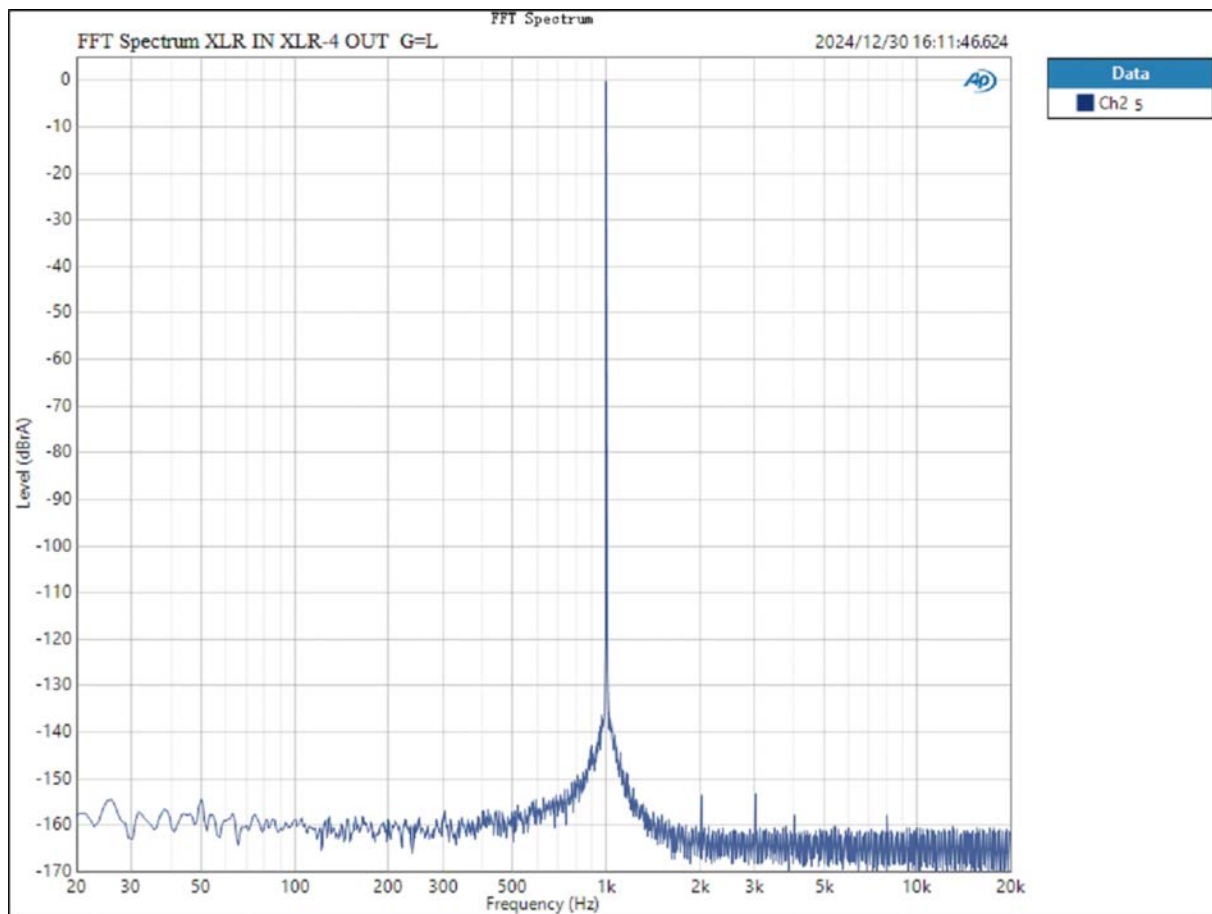
Data

Ch2 12





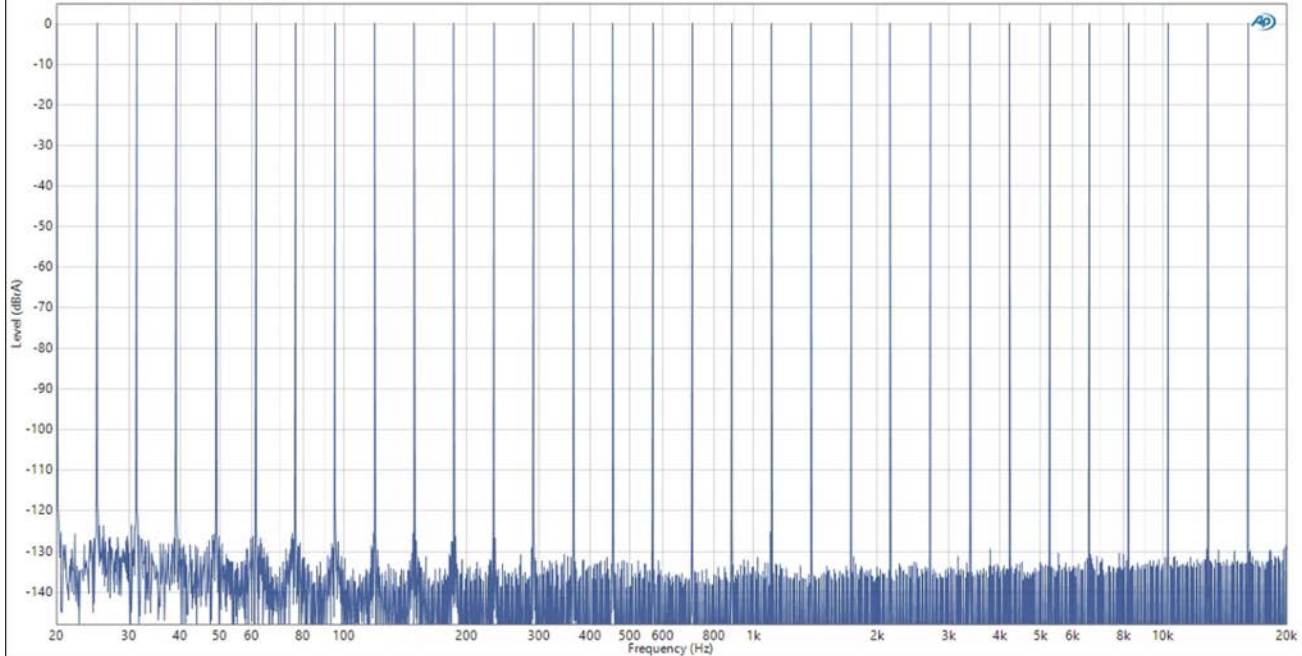




FFT Spectrum

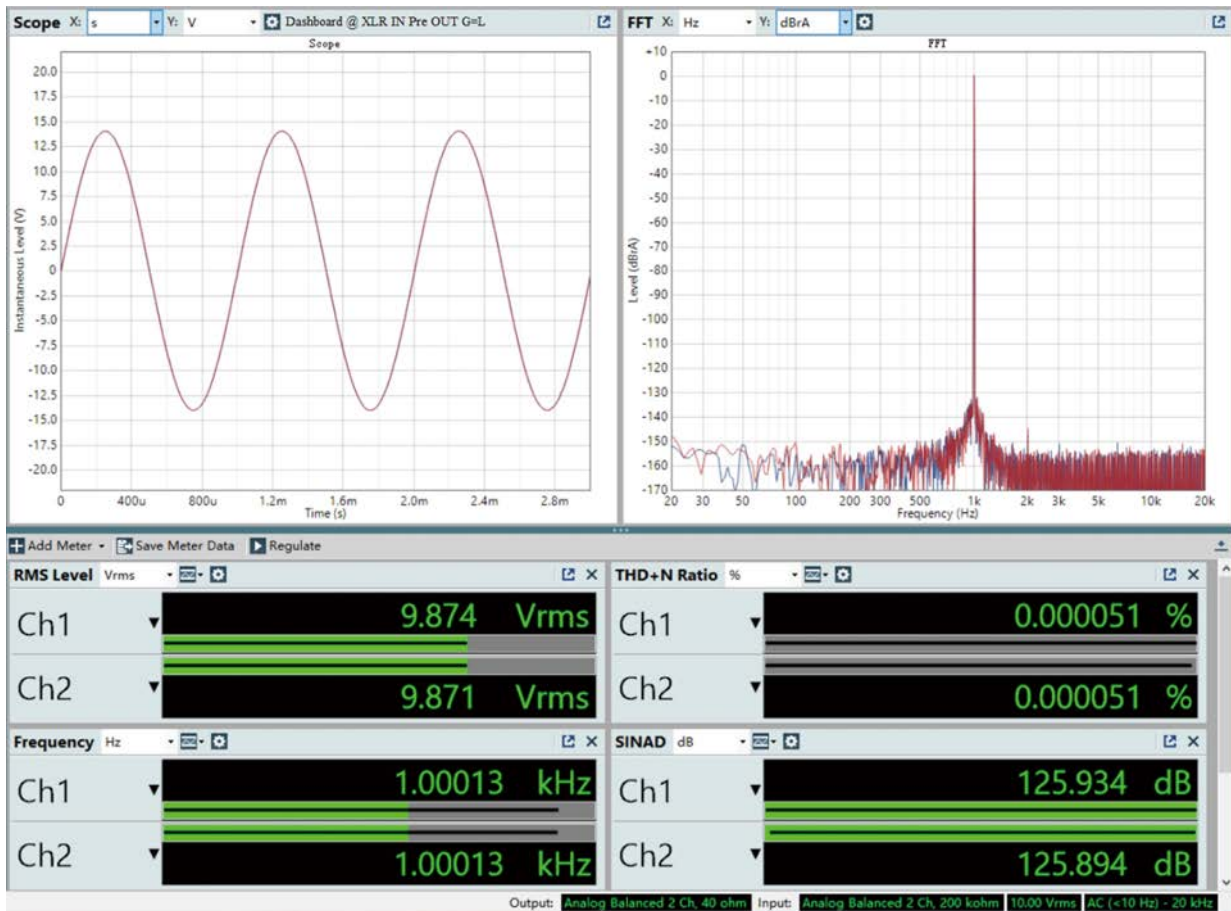
2024/12/30 16:28:35.629

Mutitone XLR IN XLR-4 OUT G=L



Data

Ch1 7



SNR @ XLR IN Pre OUT G=L

Signal to Noise Ratio

2025/2/22 14:32:10.876



Ch1

151.144 dB

Ch2

151.183 dB

0

20

40

60

80

100

120

140

Signal to Noise Ratio (dB)



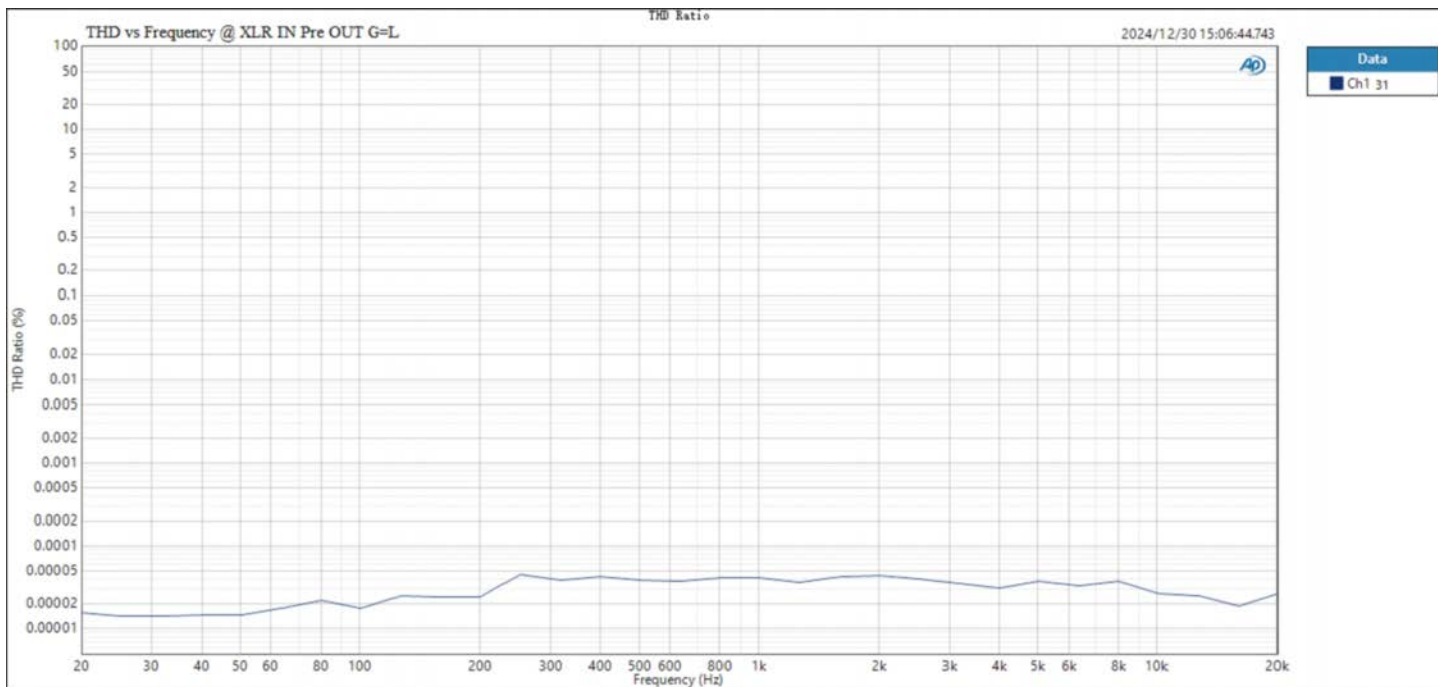
Ch1

151.174 dB

Ch2

151.215 dB

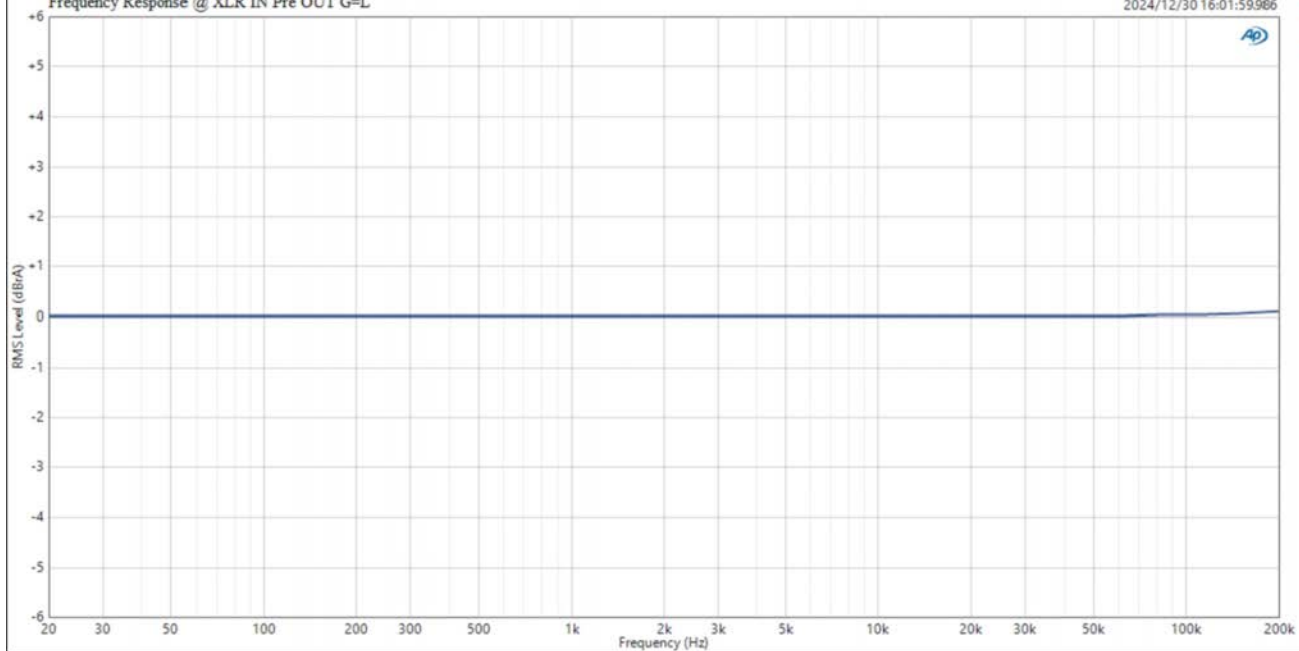
0 20 40 60 80 100 120 140



RMS Level

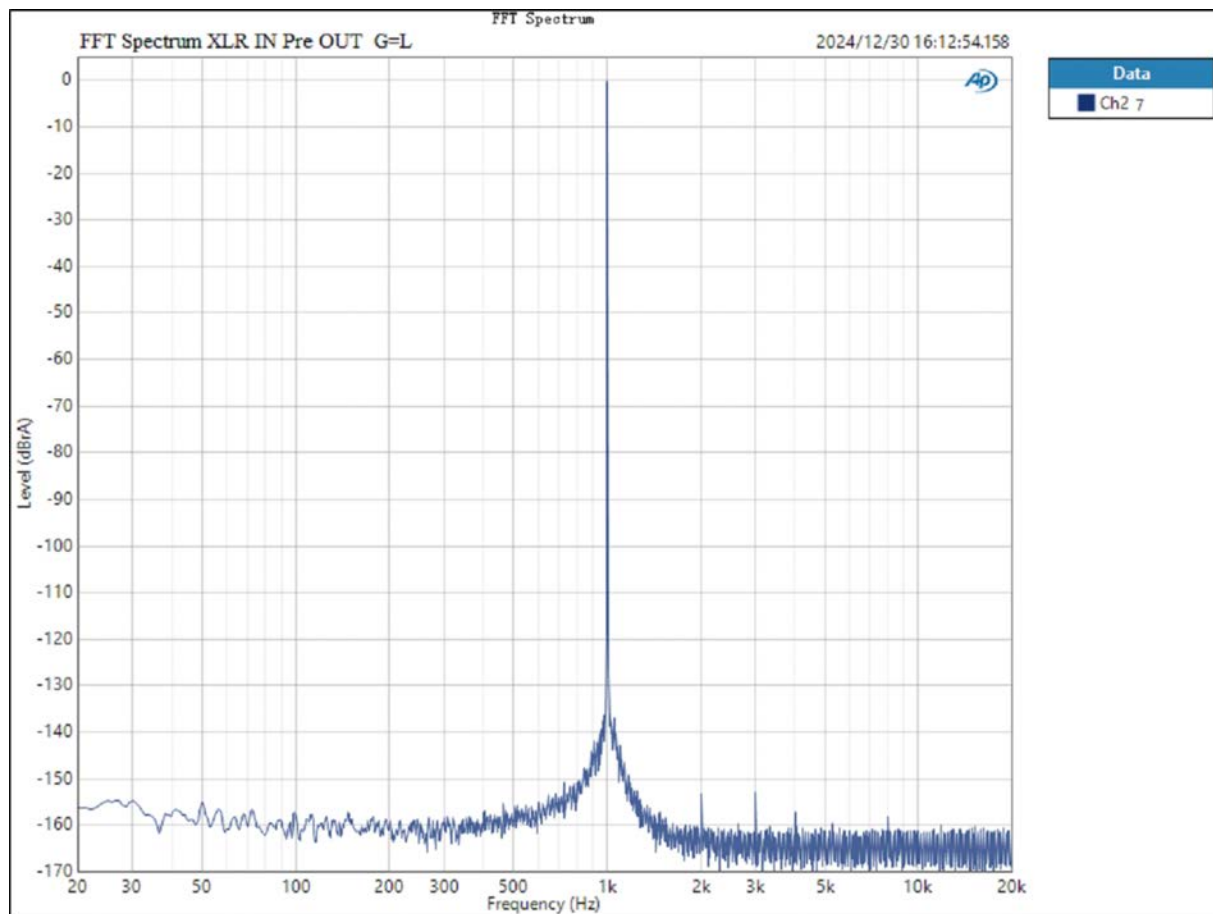
Frequency Response @ XLR IN Pre OUT G=L

2024/12/30 16:01:59.966



Data

Ch1 13



FFT Spectrum

2024/12/30 16:27:42.407

