

TOPPING

A900

使用手册 

User Manual 

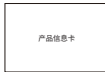
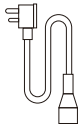
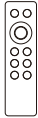
Model: TP138
V1.0

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1. 包装内物品清单

A900主机	x 1
遥控器	x 1
6.35mm转3.5mm转接头	x 1
AC电源线	x 1
入门指南	x 1
产品信息卡	x 1

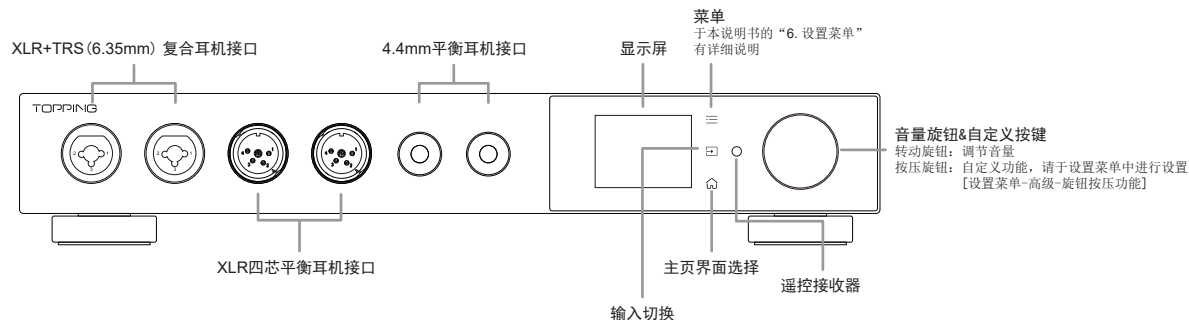


2. 产品基本属性

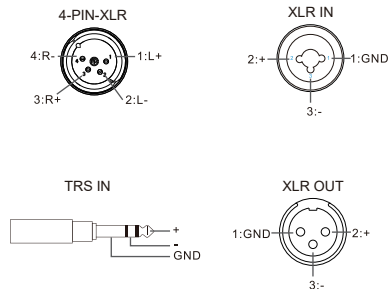
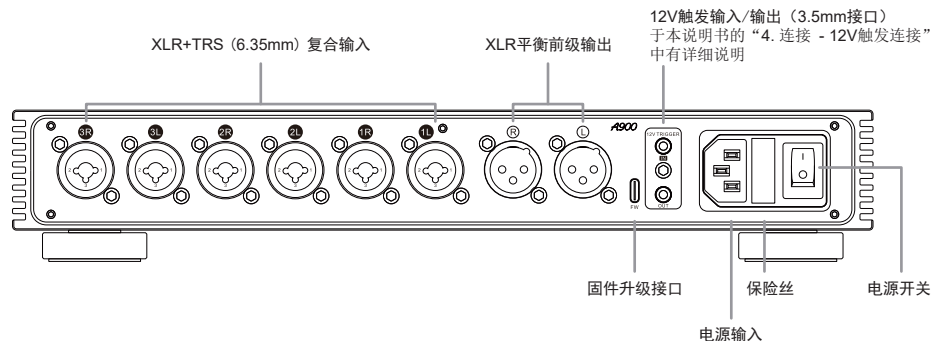
尺寸	33.0cm x 5.7cm x 20.0cm (包含突出部分)
单机重量	2.62Kg
电源	100-240VAC 50Hz/60Hz
增益	低/中/高
输入接口	3 x BAL Stereo (Combo: XLR/6.35mm TRS)
耳放输出接口	2 x 6.35mm耳机接口 (Combo: TRS)
	2 x 4.4mm平衡耳机接口
	2 x XLR四芯平衡耳机接口
	1 x XLR-3 立体声平衡耳机接口 (Combo: XLR)
Pre Out输出接口	1 x BAL Stereo (XLR)
其他控制接口	12V触发输入 (3.5mm插座)
	12V触发输出 (3.5mm插座)
显示	2.0寸LCD彩屏
控制方式	主机: 触摸按键+多功能旋钮
	无线: 遥控器
待机功耗	<3W
正常工作功耗	<11W

3. 部件与名称

前面板

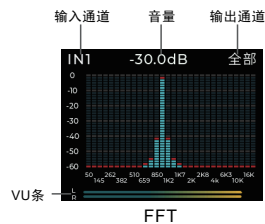


后面板



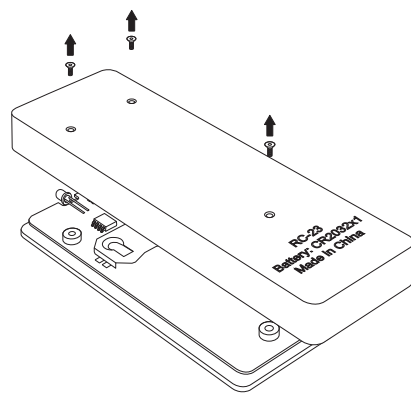
显示说明

主页显示有三种：常规，VU和FFT，可以通过按压前面板的  按键进行切换，或者可在菜单中进行设置[设置菜单-显示-主页]。

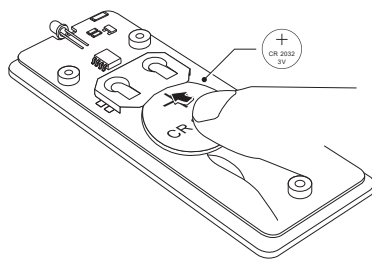


*VU表，VU条和FFT反映当前输入音频的幅值大小。

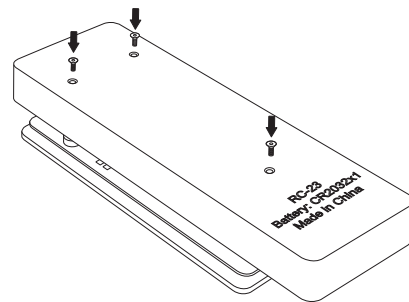
安装遥控电池



1. 使用附带的H1.27螺丝刀取下背面的三颗螺丝。

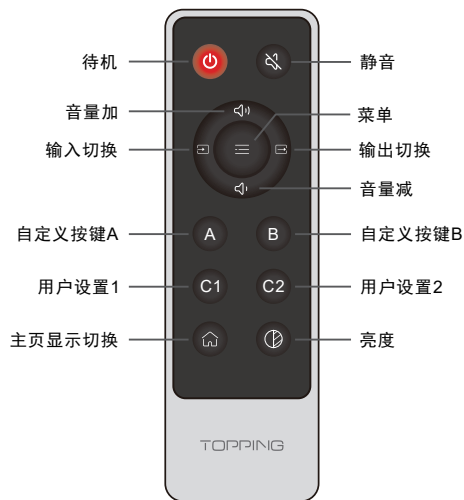


2. 按照箭头方向插入CR2032纽扣电池（不附赠）。



3. 原样装回。

遥控器说明



注意：RC23 遥控器可控制 D900 或 A900，同时长按  和  键，直到指示灯闪烁两次，即可切换遥控器的控制设备。

A B

可自定义这两个按键的功能，于“设置菜单”的“高级”中有详细说明。

C1 C2

操作：长按3秒C1/C2按键保存当前设置，按压C1/C2按键即可使用对应设置。

保存的设置：包含设置菜单中的全部设置，比如输入通道、输出通道、音量等等。

实际应用：

1. 轻松切换使用场景

该功能适用于不止一个使用场景的用户，比如以下两种使用场景。不同的使用场景下，A900有不同的设置。

A900设置	场景1：连接耳机使用	场景2：连接音箱使用
输入通道	IN1输入	IN2输入
输出通道	耳放全部	前级
音量大小	-50dB	-30dB

若从场景 1 切换到场景 2，需更改多项设置。这时只需分别长按 C1 / C2 保存两个场景设置，之后按下对应按键即可一键切换，无需逐项更改，方便高效。

2. 应对误操作，快速恢复

如果设置被误操作更改，无需担心，只需按下 C1 或 C2 键，即可一键恢复到您之前保存的状态，快捷省心。

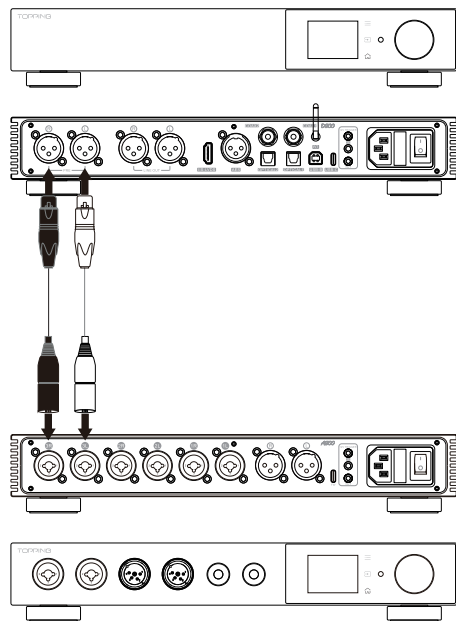


于“设置菜单”的“1-3亮度”中有详细说明

4. 连接

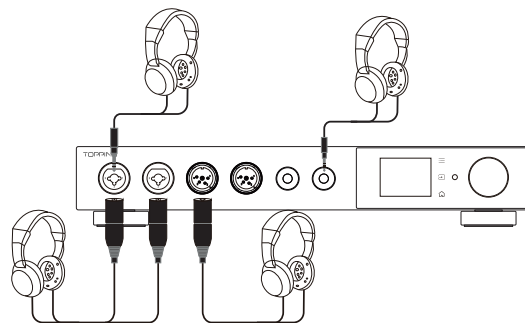
连接输入源

使用XLR或TRS平衡线缆连接至解码器。



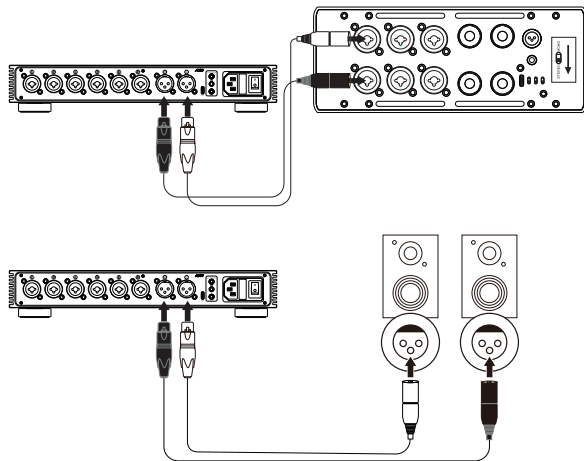
连接耳机

四类耳机接口可供选择：三芯XLR、四芯XLR、4.4mm和6.35mm耳机接口



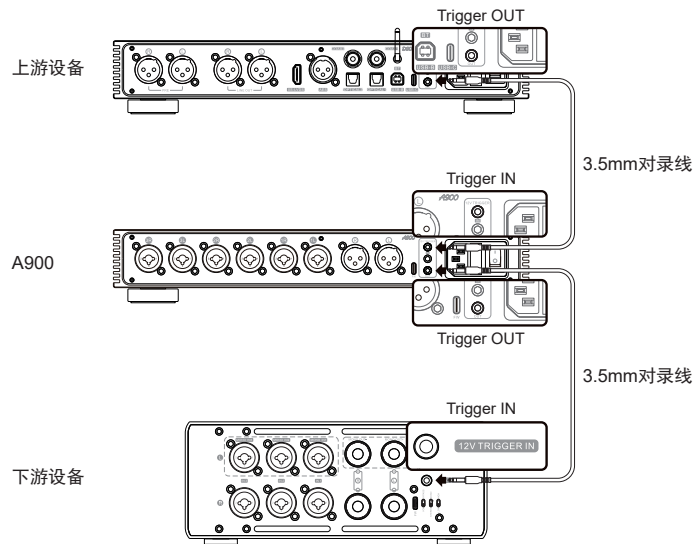
连接功率放大器或有源音箱

使用XLR线缆连接至功率放大器或有源音箱，连接前请先关闭功率放大器或有源音箱，以免损坏设备。



12V触发连接

当两个或多个配备12V Trigger接口的设备连接，可实现同步开机/待机。Trigger In所连接的上游设备可控制A900开机/待机，A900可控制Trigger Out所连接的下游设备开机/待机。

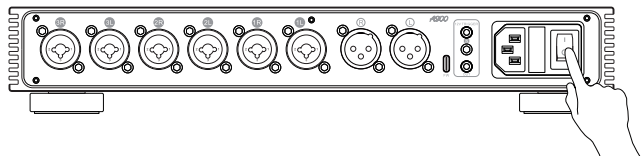


5. 操作说明

开关机/待机操作

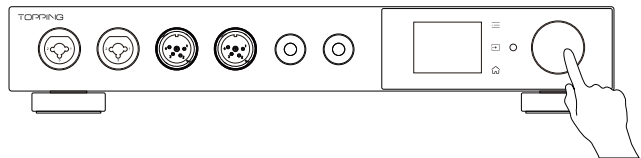
1. 开关机

打开或者关闭后面板的电源开关，即可实现A900的开关机。



2. 待机、退出待机设置

使用前面板右侧的音量旋钮，短按开机，长按待机。亦可使用遥控器。



音量设置

1. 静音状态的进入与退出

按压遥控器上的静音按键可以设置A900输出为静音状态，重新按压静音按键或调节音量大小即可退出静音状态。

2. 音量大小调节

使用面板上的旋钮，或者遥控器上的  或  按键可以调节A900的音量。注意长按遥控器上的  或  按键会快速调节音量，要小心操作以保护听力。

输入设置

1. 输入选项设置

由于设备具备多个输入通道，切换时可能耗费一定时间。为提高效率，建议您在 [设置菜单-输入设置-输入选项] 中，预先勾选常用的输入通道，以缩短切换输入源所需的时间。勾选后，在进行输入切换时，系统将仅在这些已选通道中进行切换。 ☒ IN1 ☒ IN2 ☒ IN3

2. 输入通道切换

完成输入选项设置后，按压前面板的  按键或者遥控上的  按键即可依次循环切换输入。

输出设置

1. 输出选项设置

由于设备具备多个输出通道，切换时可能耗费一定时间。为提高效率，建议您在 [设置菜单-输出设置-输出选项] 中，预先勾选常用的输出通道，以缩短切换输出通道所需的时间。可选输出通道包括： ☒ 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. 输出通道切换

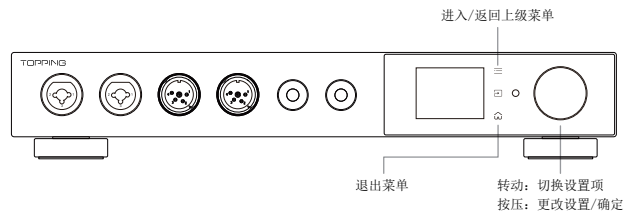
完成输出选项设置后，按压前面板的旋钮或者遥控右侧的  按键即可依次循环切换输出。

*旋钮按压功能默认为“输出选择”。如需更改该功能，可 [设置-高级-旋钮按压功能] 中进行配置。

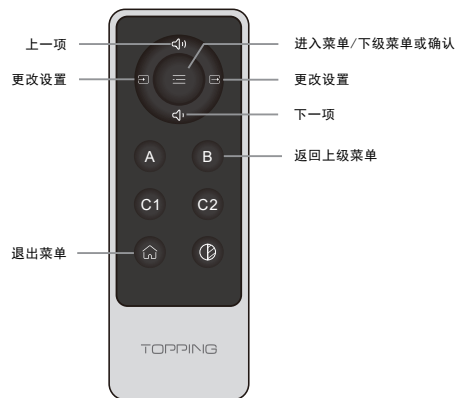
6. 设置菜单

进入菜单和更改设置

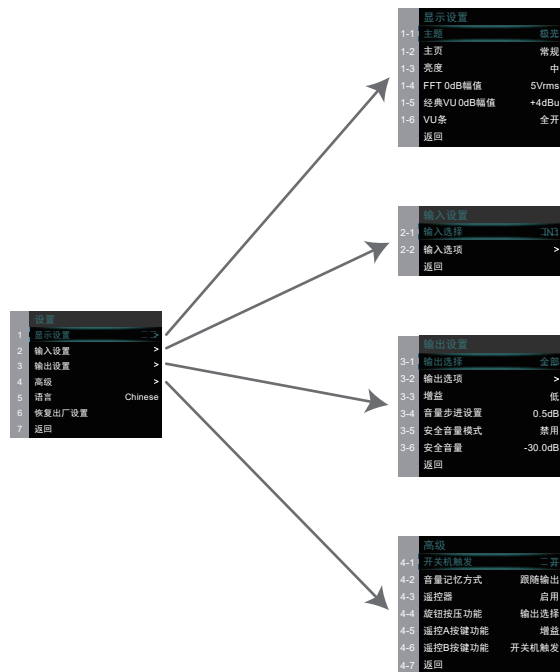
1. 使用前面板按键



2. 使用遥控器



菜单全览



1. 显示

1-1 主题

多种主题可供选择，默认极光

1-2 主页

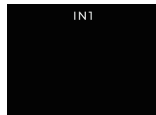
选择主页显示界面

常规（默认）、VU、FFT

1-3 亮度

低、中（默认）、高、自动

自动的亮度与亮度中一样。不同的是，在自动模式下，30秒无操作自动息屏，息屏时只显示当前输入，息屏时点击任意按键即可唤醒屏幕。



1-4 FFT 0dB幅值

设置FFT界面0dB的参考电压

2Vrms、5Vrms（默认）、10Vrms

1-5 经典VU 0dB幅值

设置VU界面0dB的参考电压，如若设置为+4dBu，当指针摆动到0dB时，输入信号的幅值就是+4dBu

+4dBu（默认）、+10dBu、+16dBu

1-5 VU条

可选择打开/关闭VU条，或在单独某个主页界面显示VU条

全开（默认）、常规界面、FFT界面、全关

2. 输入设置

2-1 输入选择

IN1（默认）/ 根据“输入选项”勾选的列表循环

2-2 输入选项

由于设备具备多个输入通道，切换时可能耗费一定时间。为提高效率，建议您在[设置菜单-输入设置-输入选项]中，预先勾选常用的输入通道，以缩短切换输入源所需的时间。勾选后，在进行输入切换时，系统将仅在这些已选通道中进行切换。

☒ IN1

☒ IN2

☒ IN3

3. 输出设置

3-1 输出选择

全部（默认）/根据“输出选项”勾选的列表循环

3-2 输出选项

由于设备具备多个出通道，切换时可能耗费一定时间。为提高效率，建议您在[设置菜单-输出设置-输出选项]中，预先勾选常用的输出通道，以缩短切换输出通道所需的时间。

可选输出通道包括：☒ ALL ☒ HPA ALL ☒ PRE ☐ 6.35-1 ☐ 6.35-2
☐ XLR-3P ☐ XLR-4P-1 ☐ XLR-4P-2 ☐ 4.4-1 ☐ 4.4-2

3-3 增益

可设置耳放和前级输出的增益

低增益（默认）、中增益、高增益

3-4 音量步进设置

0.5dB（默认）、1dB

3-5 安全音量模式

禁用（默认）、启用

开启安全音量模式后，在切换输入/输出通道或开机时，若当前音量高于安全音量，会自动将音量调到安全音量值，如果需要恢复音量，请在10秒内按压遥控器上的中间按键或前面板上的旋钮。

3-6 安全音量

自定义，可设置范围：-80.0dB到0.0dB（默认：-30.0dB）

*使用旋钮设置时，需要按压一下旋钮进入该项设置，左右转动旋钮调节数值，再次按压旋钮退出该设置。

4. 高级

4-1 开关机触发

开：根据12V信号触发开机&待机。配备12V 触发输出的设备连接A900的触发输入后，可控制A900开机/进入待机。当触发输入接口检测到12V信号从无到有时，A900会自动开机；当检测到12V信号从有到无时，A900自动进入待机状态。（默认）

关：关闭该功能

4-2 音量记忆方式

跟随输出：设备会记忆每个输出通道上次使用时的音量和增益设置，并在下次切换至该通道时自动恢复。（默认）

跟随输入：设备会记忆每个输入通道上次使用时的音量和增益设置，并在下次切换至该通道时自动恢复。

无：不使用该功能

4-3 遥控器

启用（默认）、禁用

4-4 旋钮按压功能

可自定义按压旋钮的功能

输出选择（默认）、主页选择、亮度选择、息屏、静音、增益、安全音量模式、开关机触发、输入选择

4-5 遥控按键A功能

可自定义遥控按键A功能

输出选择、主页选择、亮度选择、息屏、静音、增益（默认）、安全音量模式、开关机触发、输入选择

4-6 遥控按键B功能

可自定义遥控按键B功能

输出选择、主页选择、亮度选择、息屏、静音、增益（默认）、安全音量模式、开关机触发、输入选择

5. 语言

English、中文

6. 恢复出厂设置

选择恢复出厂设置会有弹窗，选择确定/取消（选中带颜色），然后按压遥控中间按键或者前面板旋钮确定选择。

7. 故障排除

若使用过程中出现问题，请通过以下链接查找相应的解决方法。

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

查找方式：Window OS同时按住键盘的 Ctrl 和 F 按键（Mac OS 同时按住 command 和 F）进入搜索，输入设备型号，就能跳转到该设备的FQA。

如果依然无法解决问题，请联系我们：service@tpdz.net

8. 注意事项

1. 不得将本机搁置在高温、潮湿的环境，更不得淋雨或者受强烈冲击。
2. 不得随意拆开机壳，如需维修应请专业维修人员处理。
3. 本机仅供室内使用。
4. 对因产品的故障而直接或间接引起的任何损失或损坏不予负责。
5. 因产品改进，规格及功能若有变动恕不另行通知。

9. 参数

A900 耳放参数一览表

	BAL IN/SE OUT	BAL IN/BAL OUT
总谐波失真加噪声 @1kHz A-wt	<0.000060% @Output=500mW (32Ω) <0.000055% @Output=80mW (300Ω)	<0.000060% @Output=500mW (32Ω) <0.000055% @Output=80mW (300Ω)
总谐波失真 @20-20kHz 90kBW	<0.00006% @Output=500mW (32Ω) <0.00005% @Output=80mW (300Ω)	<0.00004% @Output=500mW (32Ω) <0.00003% @Output=80mW (300Ω)
信噪比 @MAX OUT 1kHz A-wt	143dB	151dB
动态范围 @1kHz A-wt	143dB	151dB
频率响应	20Hz-40kHz (±0.05dB) 10Hz-200kHz (±0.1dB)	20Hz-40kHz (±0.05dB) 10Hz-200kHz (±0.1dB)
输出幅值	30 Vpp @G=L 30 Vpp @G=M 30 Vpp @G=H	60Vpp @G=L 60Vpp @G=M 60Vpp @G=H
AP测试噪声值 @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
实际噪声值* @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

*说明：实际噪声值是将经过噪声放大器放大 40dB (100倍) 的 A900 的噪声信号输入到APx555B，并将读数除以100倍。

9. 参数

A900 耳放参数一览表

	BAL IN/SE OUT	BAL IN/BAL OUT
声道串扰 @1kHz	-105dB	-153dB
输入灵敏度	22.0Vrms @G=L 7.0Vrms @G=M 2.1Vrms @G=H	22.0Vrms @G=L 7.0Vrms @G=M 2.1Vrms @G=H
增益	-6.1dB @G=L +4.3dB @G=M +13.8dB @G=H	-0.1dB @G=L +10.3dB @G=M +19.8dB @G=H
输出阻抗	< 0.1Ω	< 0.1Ω
输出功率	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%
适配阻抗	>8Ω	

*说明：实际噪声值是将经过噪声放大器放大 40dB(100倍)的 A900 的噪声信号输入到APx555B，并将读数除以100倍。

9. 参数

A900 前级参数一览表

总谐波失真加噪声 @1kHz A-wt	<0.000055%
总谐波失真 @20-20kHz 90kBW	<0.00003%
信噪比 @MAX OUT 1kHz A-wt	151dB
动态范围 @1kHz A-wt	151dB
频率响应	20Hz-40kHz (± 0.05 dB) 20Hz-200kHz (± 0.1 dB)
输出幅值	60Vpp @G=L 60Vpp @G=M 60Vpp @G=H
AP测试噪声值 @A-wt	<0.7uVrms @G=L <1.2uVrms @G=M <2.5uVrms @G=H
实际噪声值 * @A-wt	<0.3uVrms @G=L <1.0uVrms @G=M <2.3uVrms @G=H
声道串扰 @1kHz	-153dB
输入灵敏度	22.0Vrms @G=L 7.0Vrms @G=M 2.1Vrms @G=H
增益	-0.1dB @G=L +10.3dB @G=M +19.8dB @G=H
输出阻抗	100 Ω

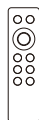
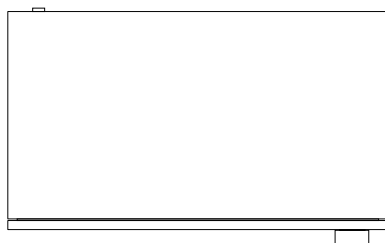
*说明：实际噪声值是将经过噪声放大器放大 40dB (100倍) 的 A900 的噪声信号输入到APx555B，并将读数除以100倍。

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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

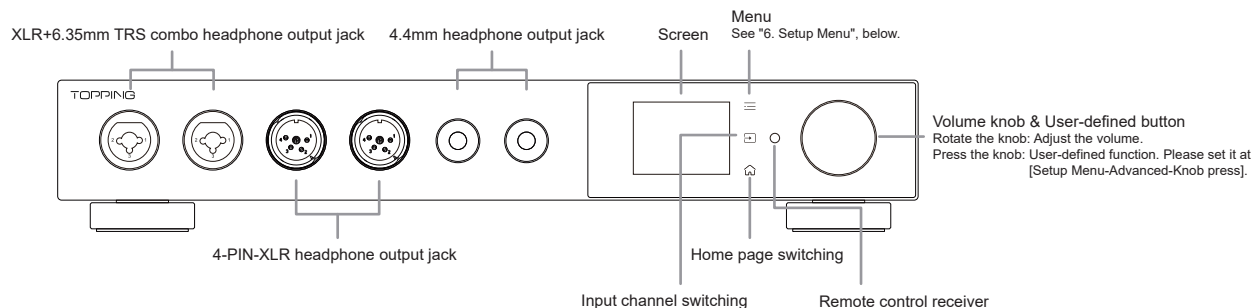


2. Attribute

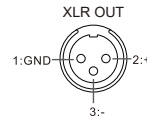
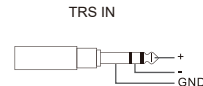
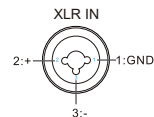
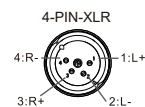
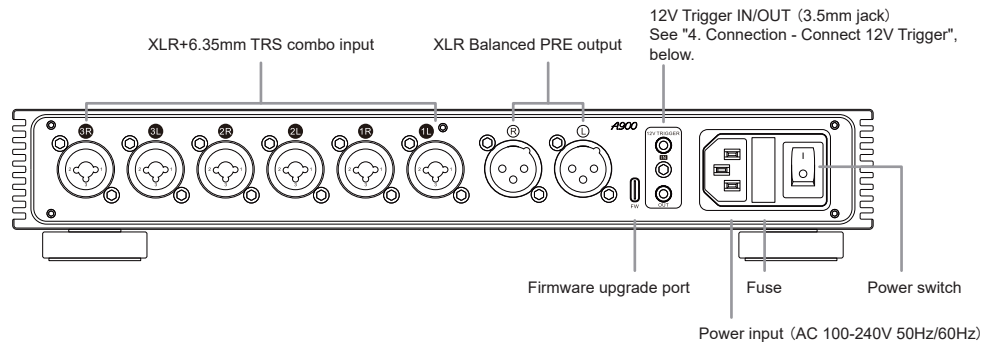
Measured	33.0cmx5.7cmx20.0cm (Include protruding parts)
Weight	2.62 Kg
Power input	100-240VAC 50Hz/60Hz
Gain	L/M/H
Signal input	3 x BAL Stereo (Combo: XLR/6.35mm TRS)
Headphone Amplifier output	2 x 6.35mm headphone output jack (Combo: TRS)
	2 x 4.4mm headphone output jack
	2 x 4-PIN-XLR headphone output 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

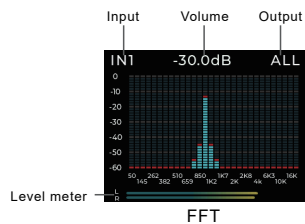
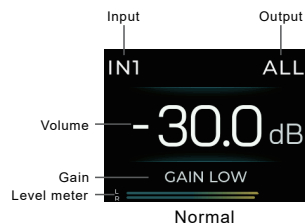


Rear panel



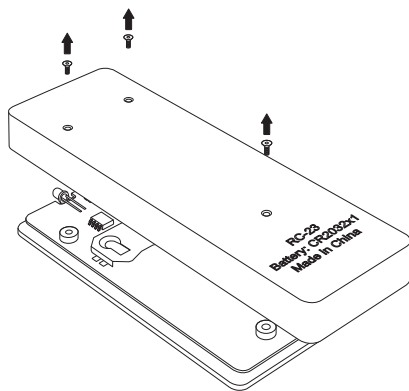
Display

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].

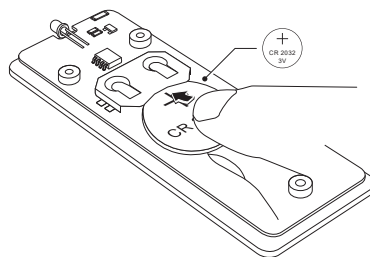


*VU Meter, FFT and Level meter monitor or reflect audio input level of current source.

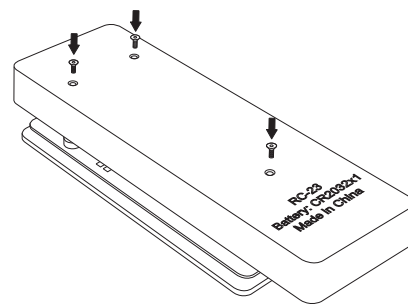
Install remote control battery



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

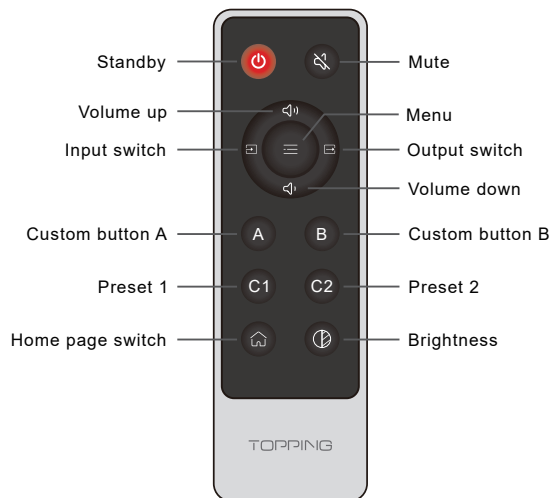


2. Insert the CR2032 button cell (not included) in the direction of the arrow .



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.

A B

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

C1 C2

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

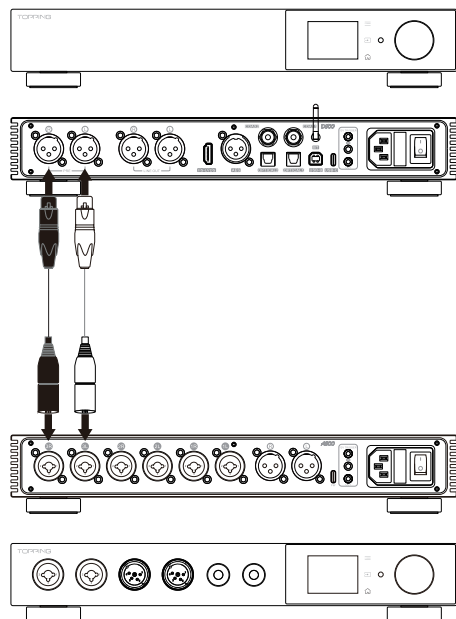
If your settings are accidentally changed, don't worry. Simply press the C1 or C2 button to instantly restore your previously saved configuration — fast and reliable.



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

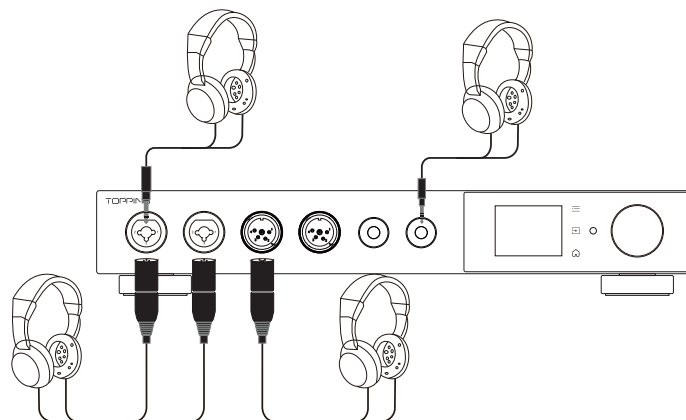
4. Connection

Connect to the input source



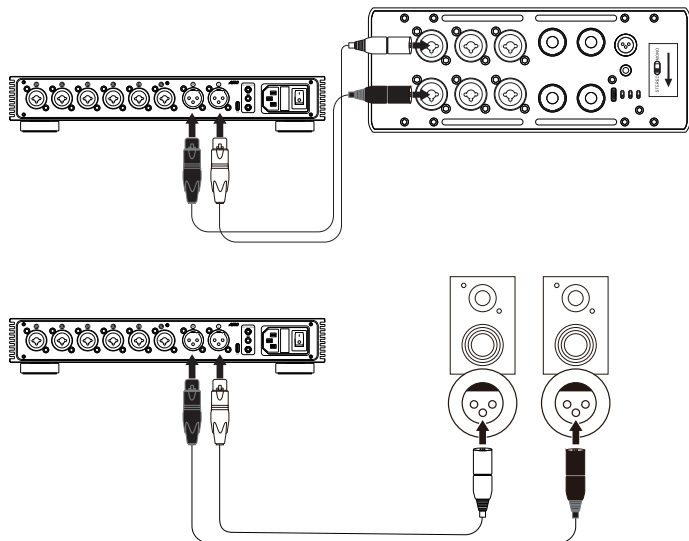
Connect to headphone

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



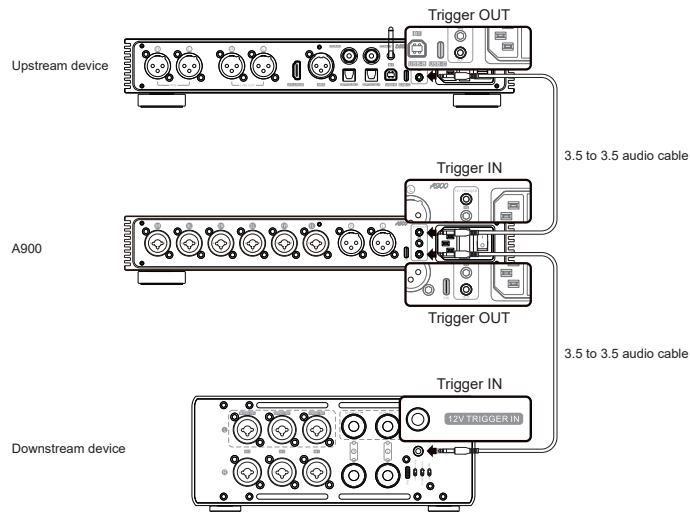
Connect to amplifier or active speaker

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.

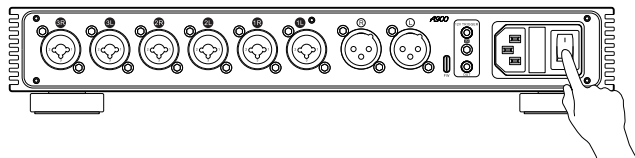


5. Operation

Power on & off / standby operation

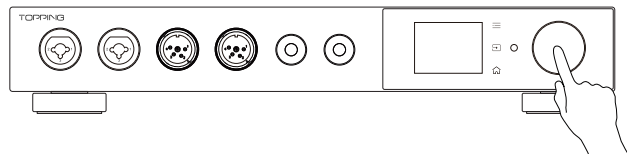
1. Power on & off

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.

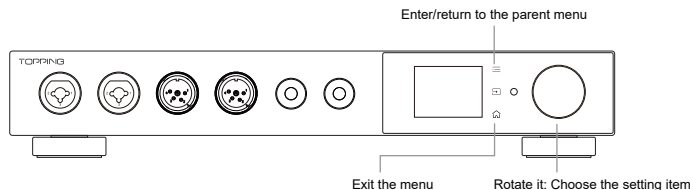
*By default, the knob press function is set to "Output select." If needed, you can change this setting in [Setup-Advanced-Knob press].

6. Setup Menu

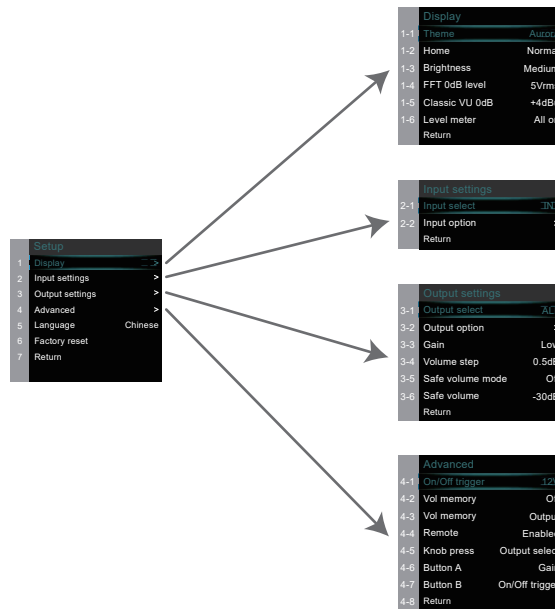
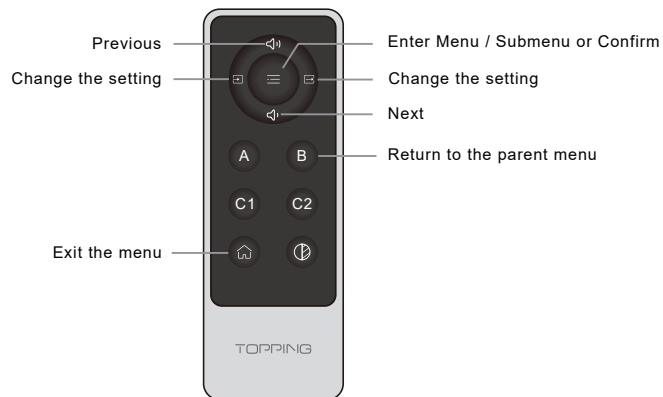
Enter menu and change settings

Menu Overview

1. Buttons on front panel



2. The remote control



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:

- | | | | |
|---|---|---|-----------------------------------|
| ☒ ALL | ☒ HPA ALL | ☒ PRE | ☐ 6.35-1 |
| ☐ 6.35-2 | ☐ XLR-3P | ☐ XLR-4P-1 | ☐ XLR-4P-2 |
| ☐ 4.4-1 | ☐ 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

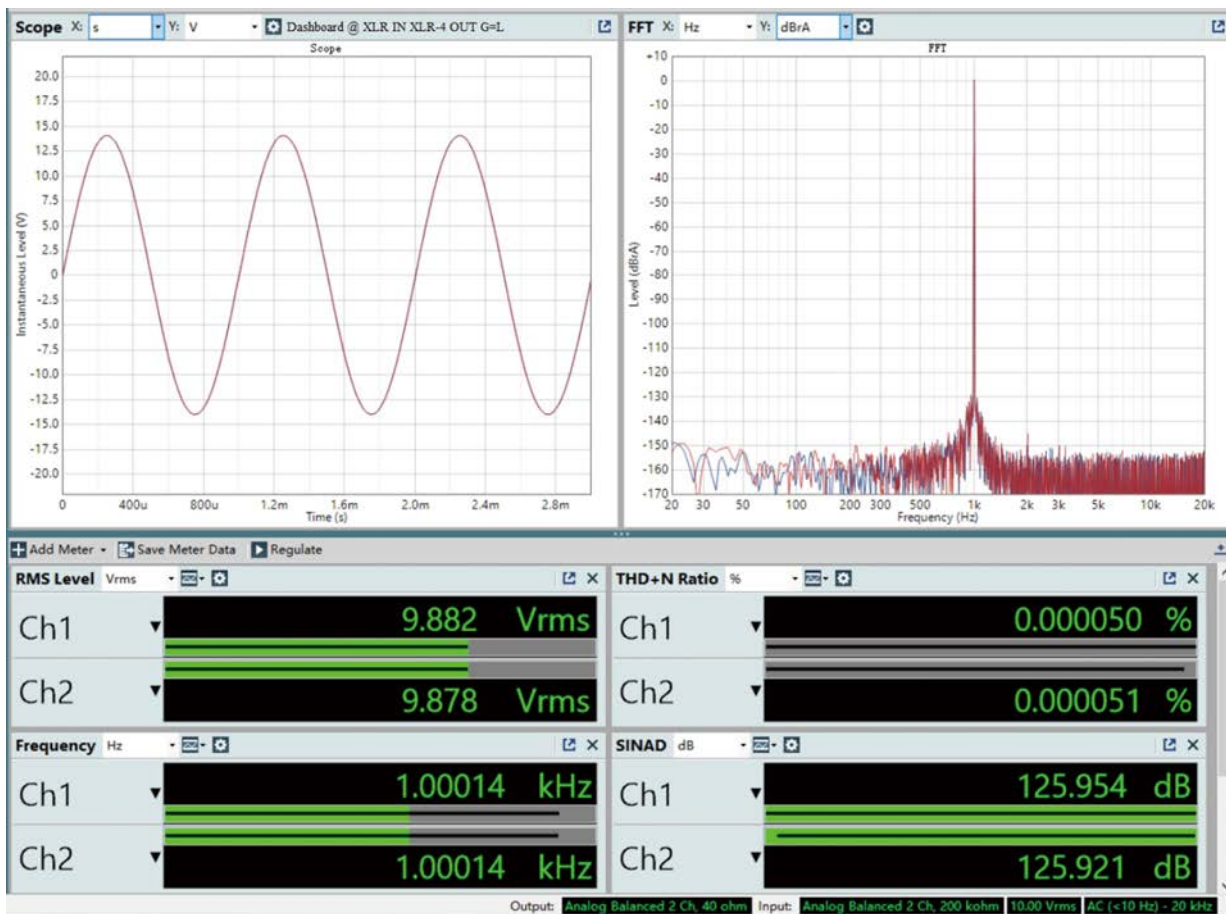
	BAL IN/SE OUT	BAL IN/BAL OUT
Channel Crosstalk @1kHz	-105dB	-153dB
Input Sensitivity	22.0Vrms @G=L 7.0Vrms @G=M 2.1Vrms @G=H	22.0Vrms @G=L 7.0Vrms @G=M 2.1Vrms @G=H
Gain	-6.1dB @G=L +4.3dB @G=M +13.8dB @G=H	-0.1dB @G=L +10.3dB @G=M +19.8dB @G=H
Output Impedance	< 0.1 Ω	< 0.1 Ω
Output Power	6000mW x 2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

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 @ 2Vrms IN 50mV XLR-4 OUT G=L (放大100倍测量)

Signal to Noise Ratio

2025/1/9 15:30:11.791



Ch1

104.204 dB

Ch2

104.080 dB

0 20 40 60 80 100 120 140

Signal to Noise Ratio (dB)

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)

DNR @ XLR IN XLR-4 OUT G=L

Dynamic Range - AES17

2024/12/28 15:21:43.878



Ch1

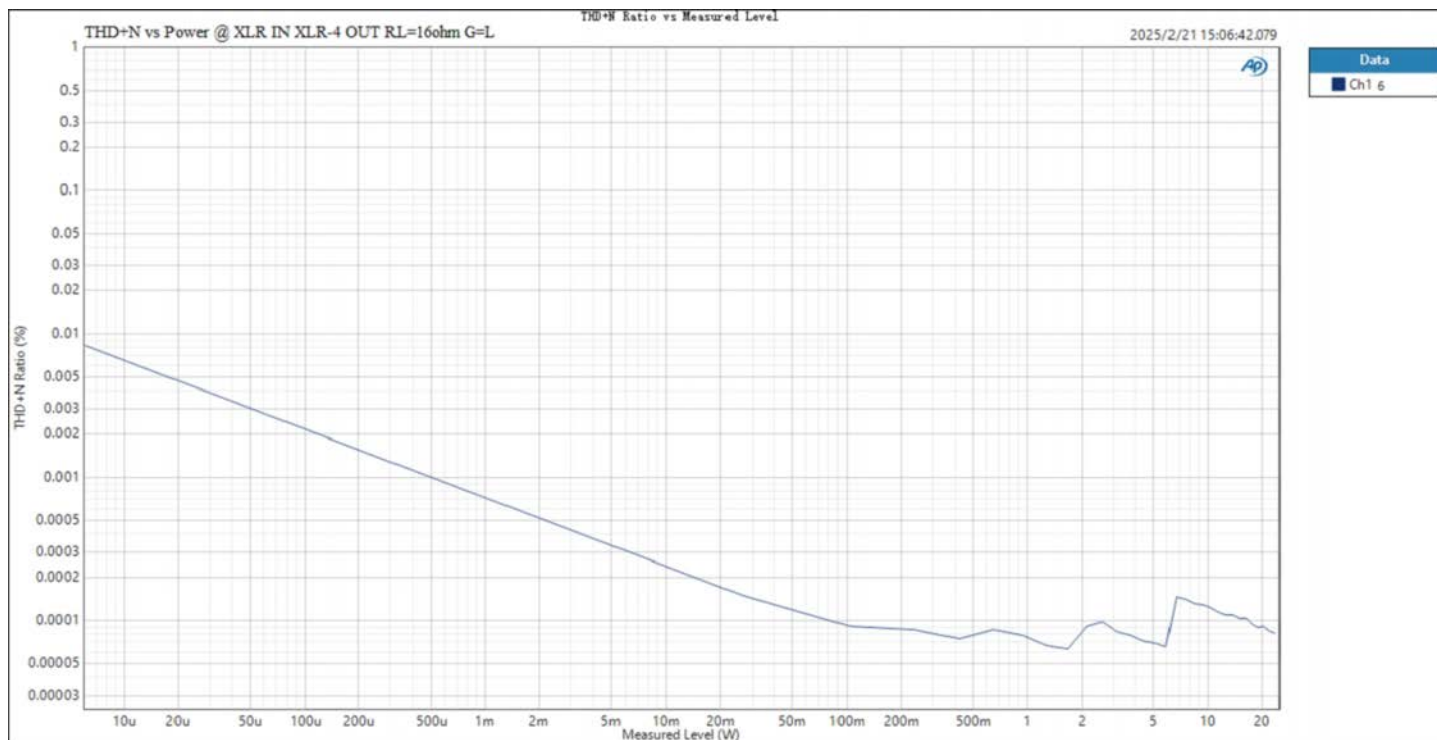
151.389 dB

Ch2

151.285 dB

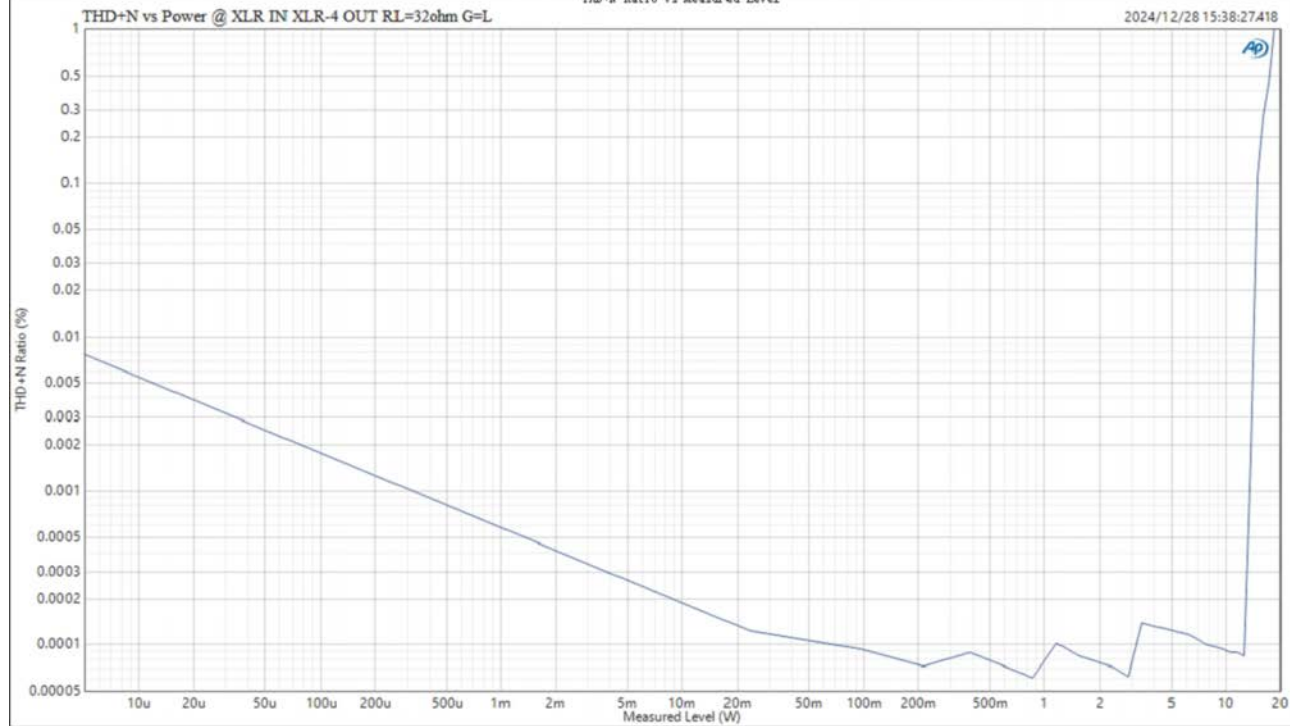
0 20 40 60 80 100 120 140

Dynamic Range - AES17 (dB)



THD+N Ratio vs Measured Level

2024/12/28 15:38:27.418

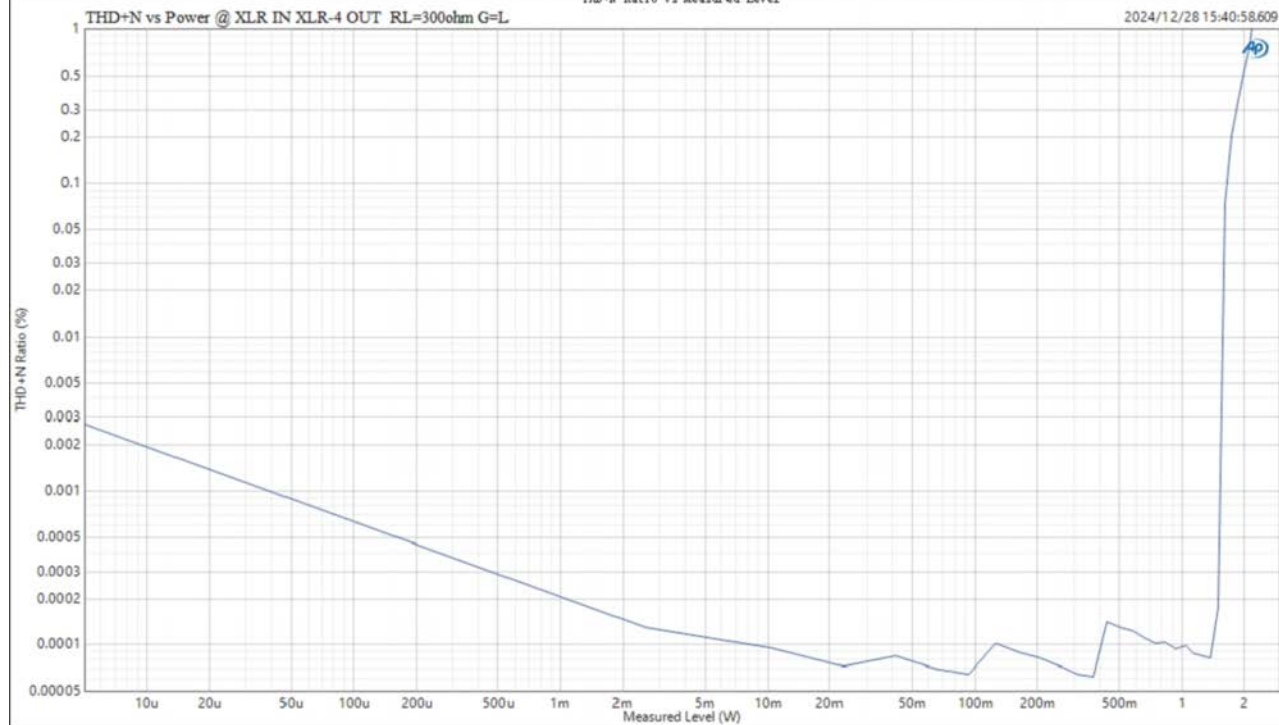


Data

Ch1 10

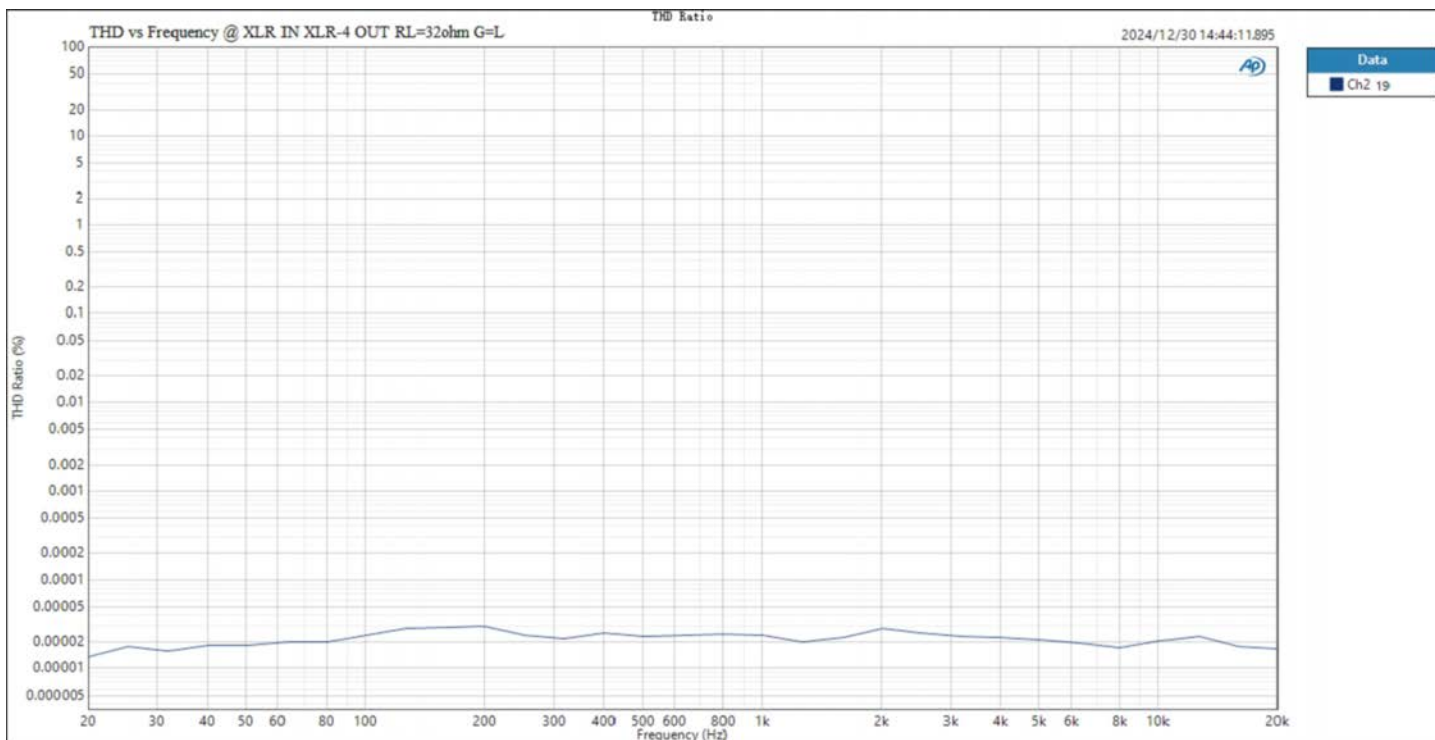
THD+N Ratio vs Measured Level

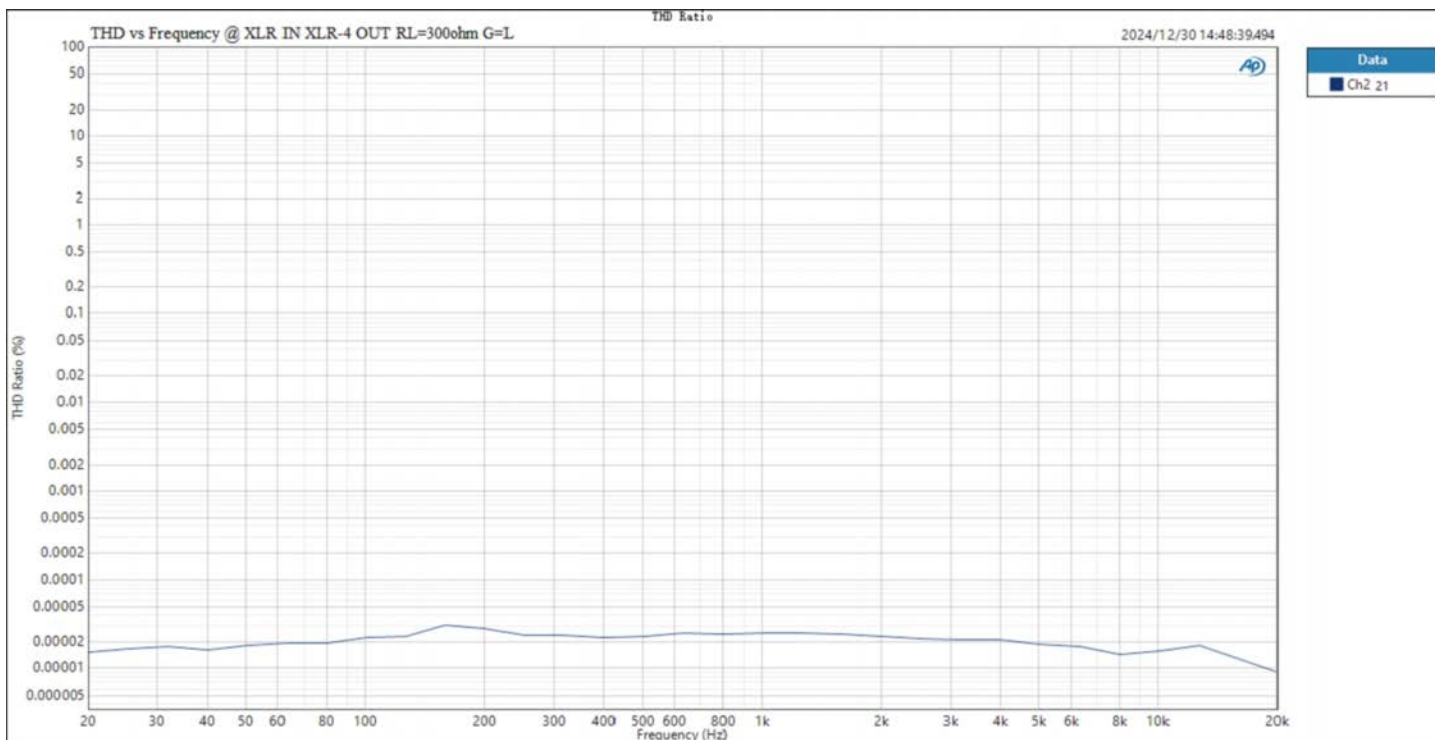
2024/12/28 15:40:58.609

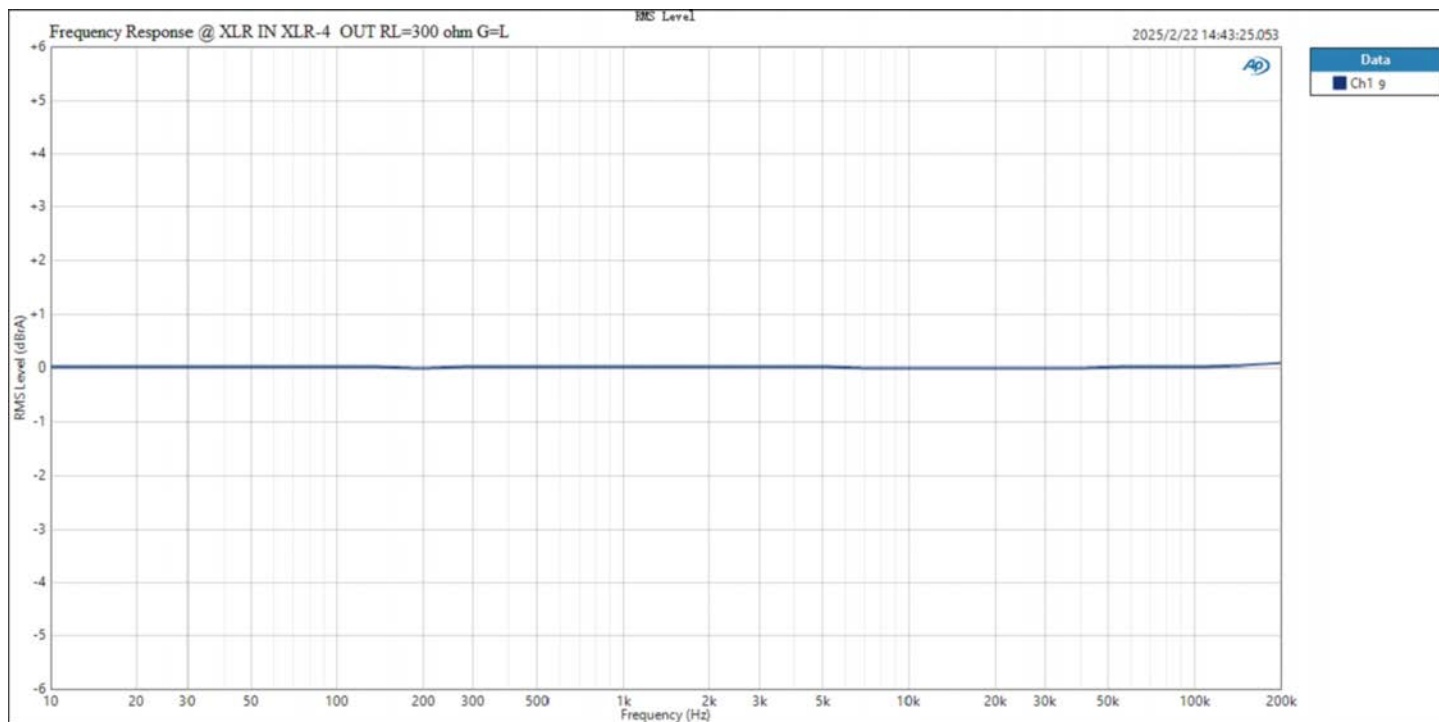


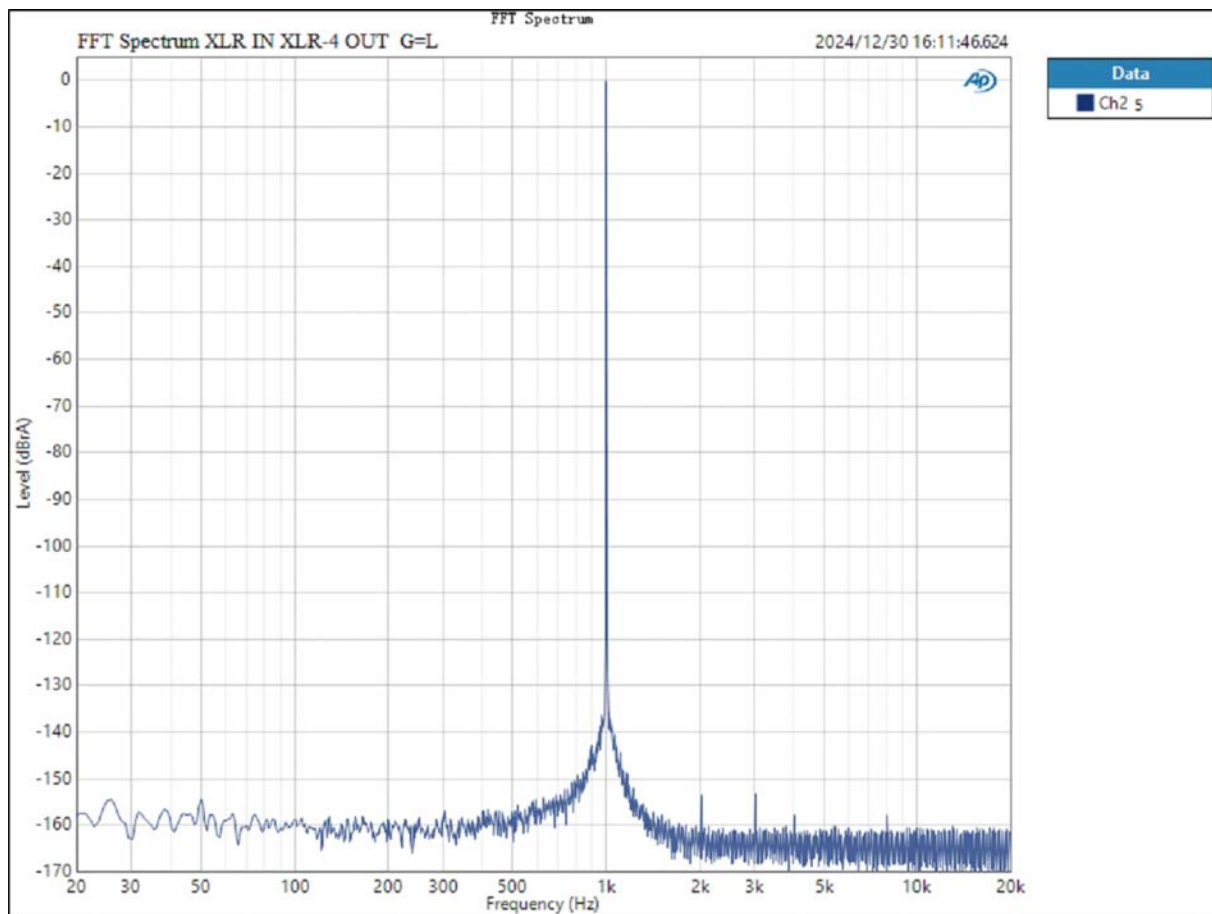
Data

Ch2 12



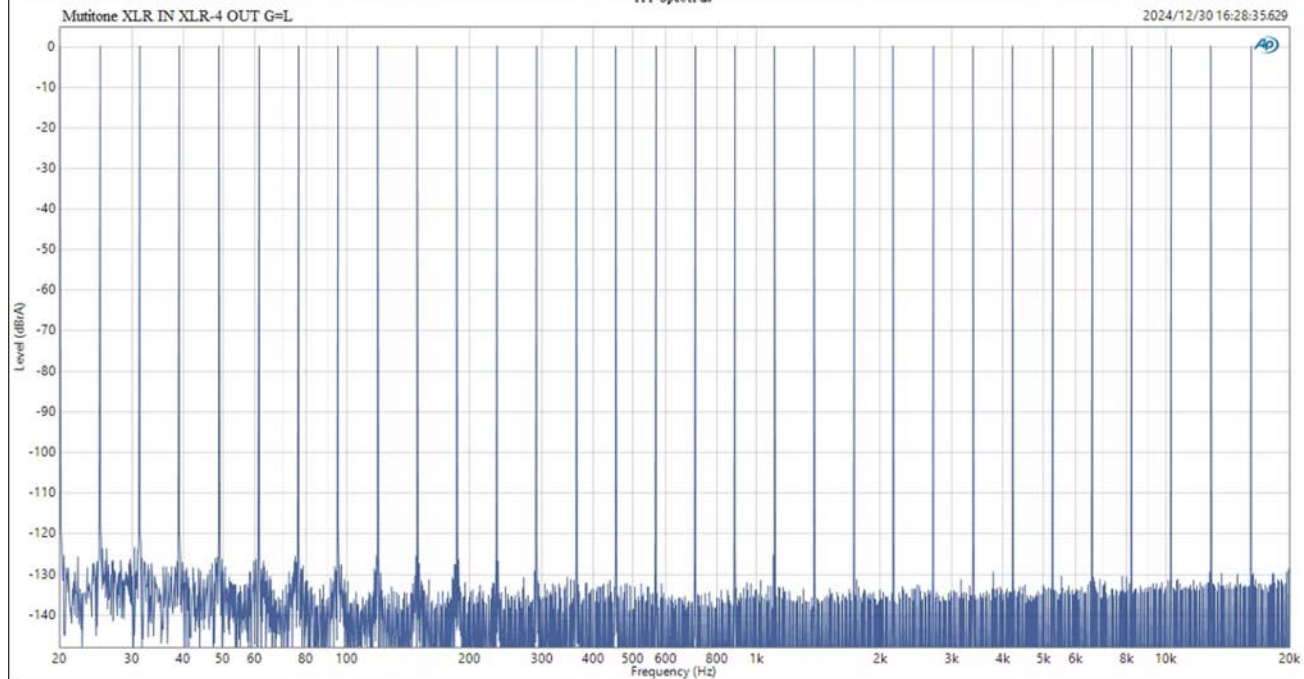


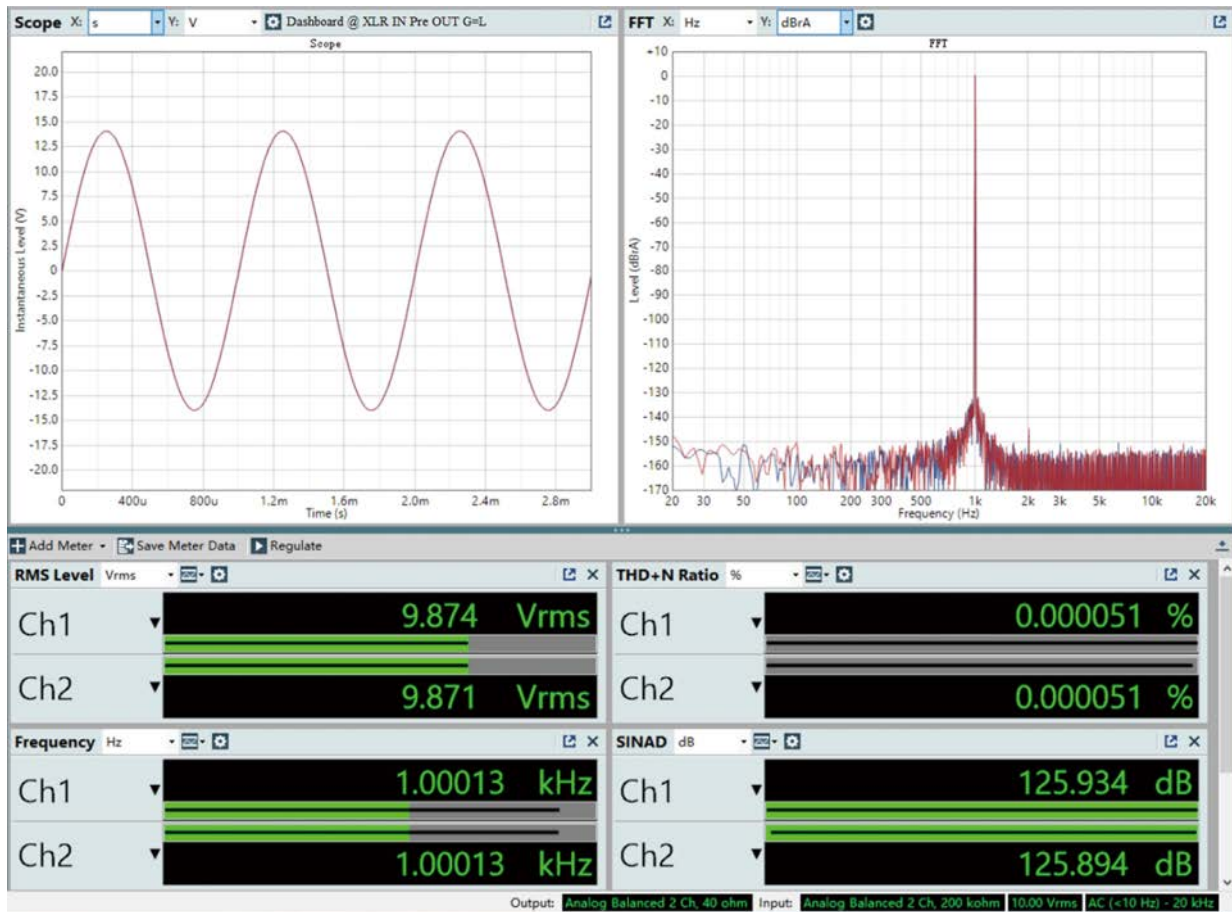




FFT Spectrum

2024/12/30 16:28:35.629





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)

DNR @ XLR IN Pre OUT G=L

Dynamic Range - AES17

2024/12/28 15:11:04.605



Ch1

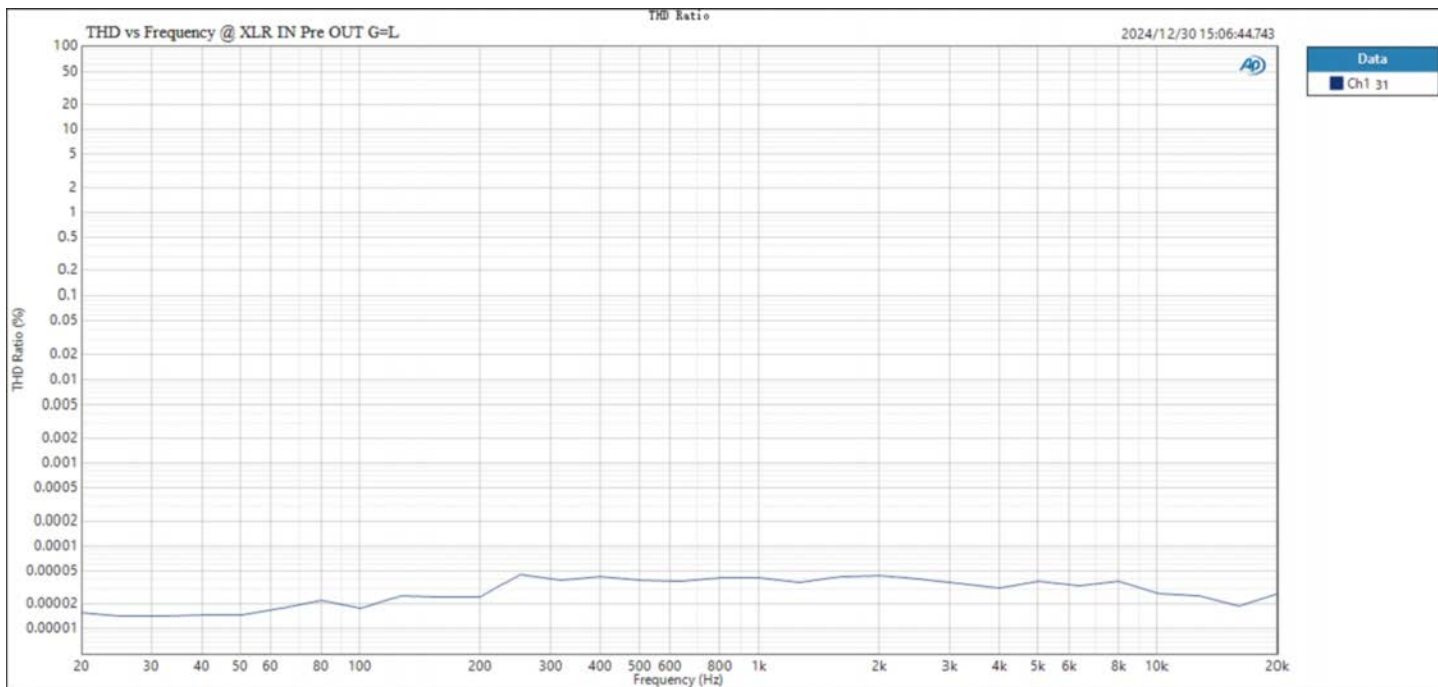
151.174 dB

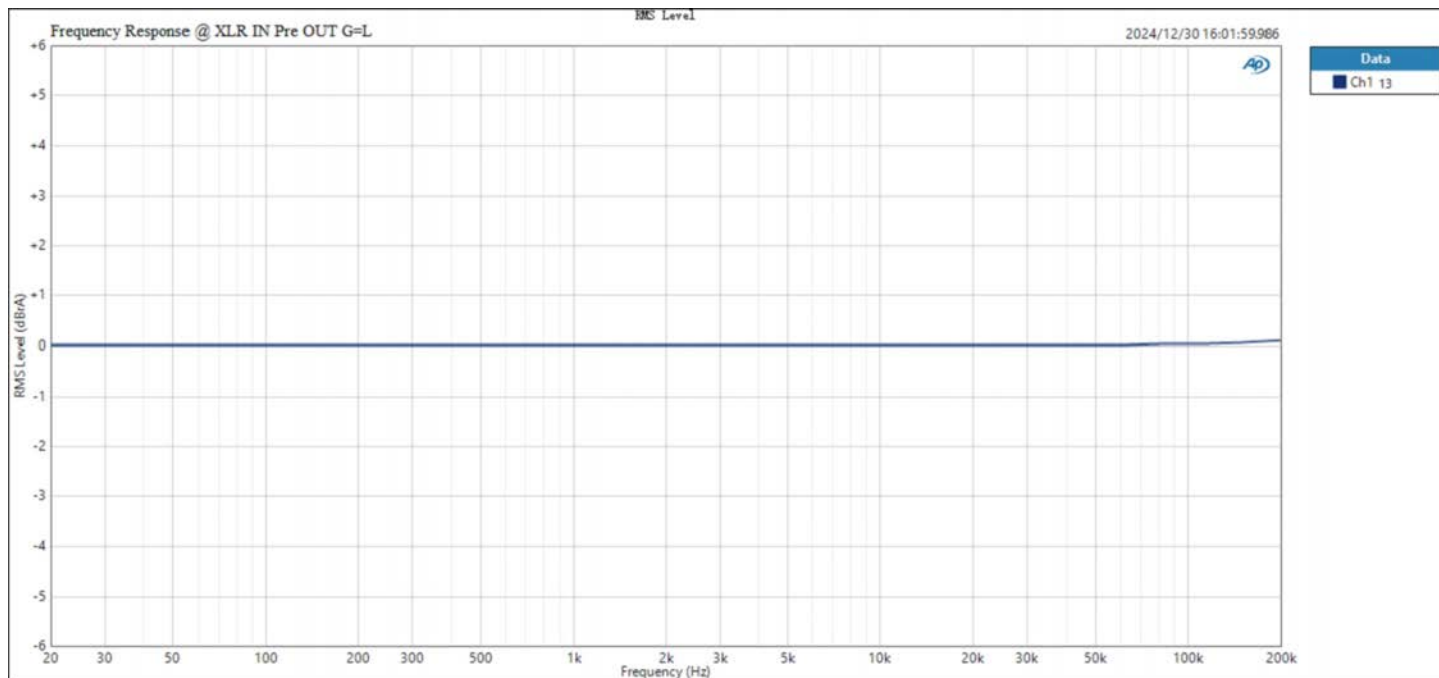
Ch2

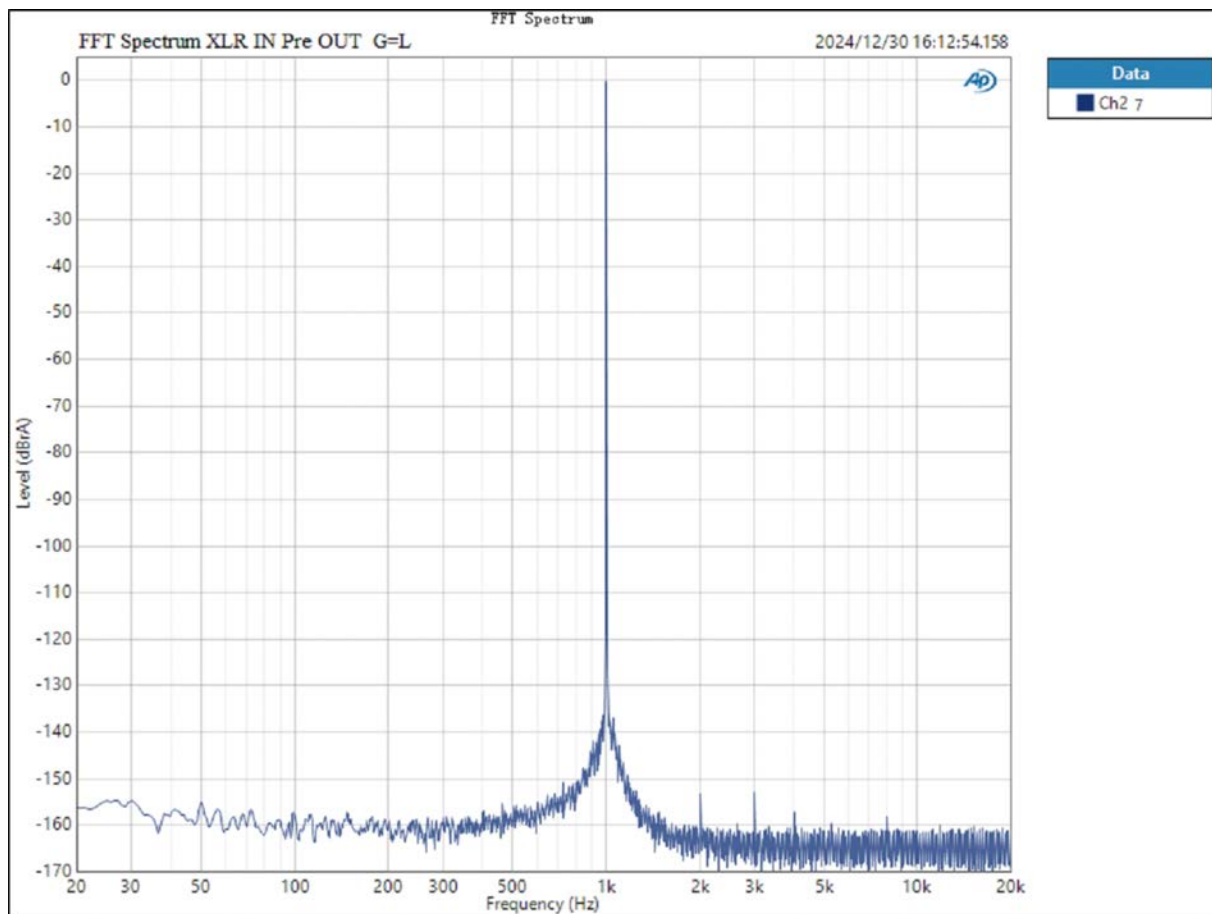
151.215 dB

0 20 40 60 80 100 120 140

Dynamic Range - AES17 (dB)







FFT Spectrum

2024/12/30 16:27:42.407

