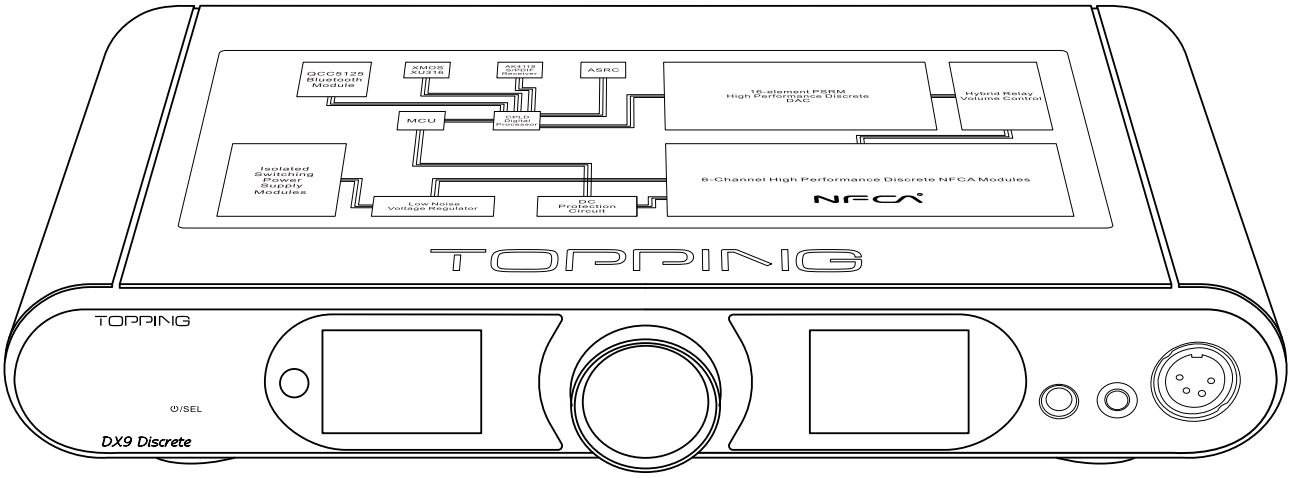
TOPPING

DX9 Discrete



使用指南

User manual

Model: TP737
V1.0

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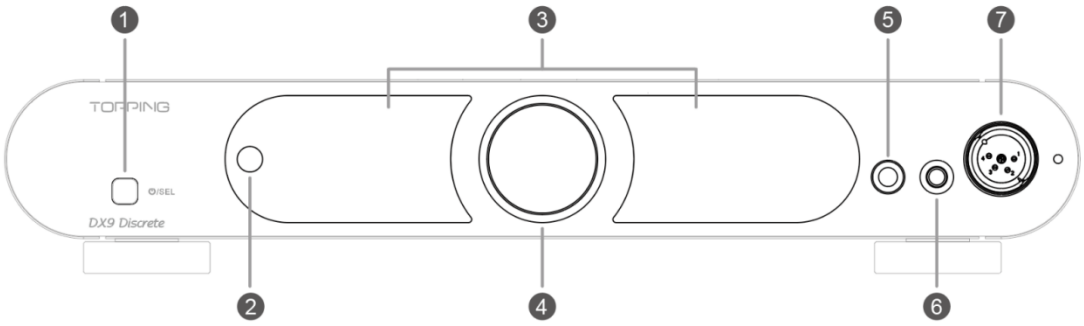
TOPPING产品驱动下载：https://www.toppingaudio.com/zh/downloads

2. 部件与名称

2.1 前面板



1. 多功能按键
2. 遥控接收器
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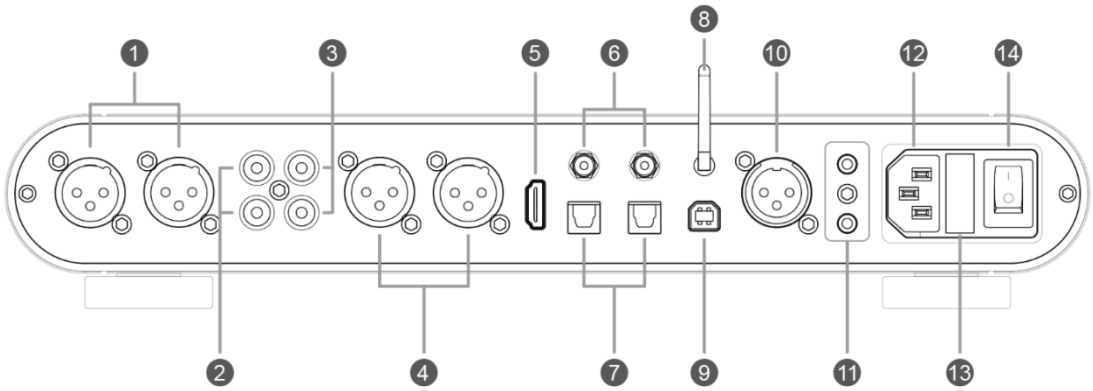
5. 6.35mm单端耳机接口
6. 4.4mm平衡耳机接口
7. 四芯XLR平衡耳机接口

2.2 后面板



1. XLR平衡前级输出
2. RCA单端前级输出
3. RCA单端线路输出
4. XLR平衡线路输出
5. IIS输入
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7. 光纤输入
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9. USB输入
10. AES输入
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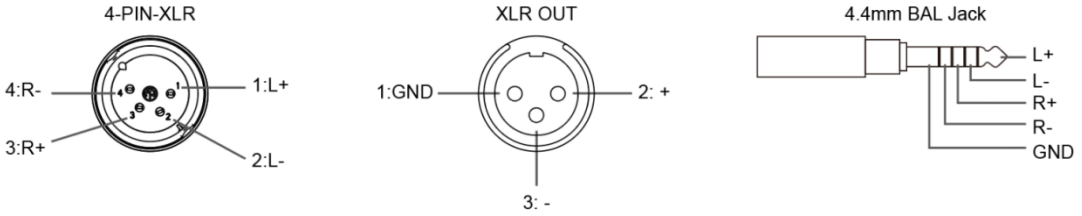
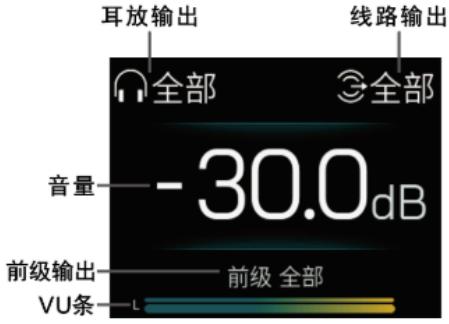
12. 电源输入（AC 100-240V 50Hz/60Hz）
13. 保险丝
14. 电源开关



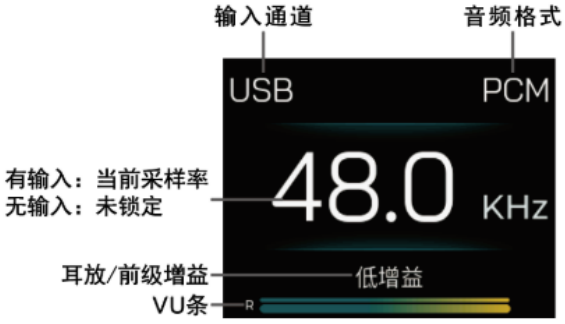
2.3 显示说明

主页显示有三种：默认，VU和FFT，可在菜单进行切换[设置-显示-主页]；VU表样式有两种：经典和蓝色 [设置-显示-VU样式]

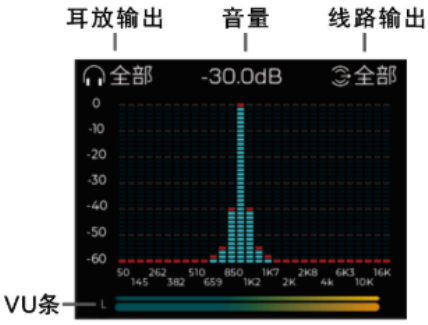
前级输出



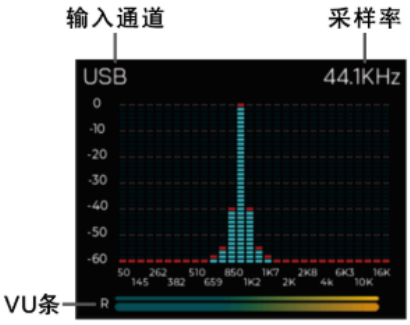
（默认）



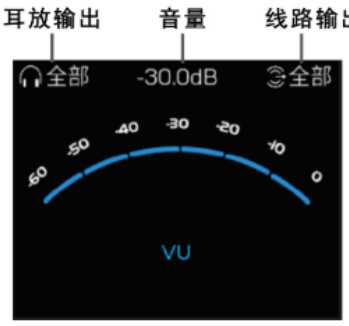
（默认）



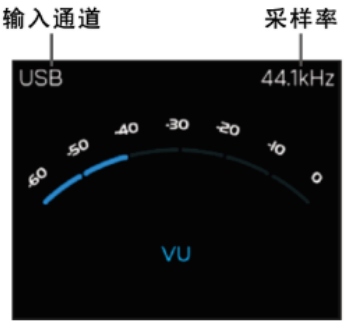
（FFT）



（FFT）



（蓝色VU）

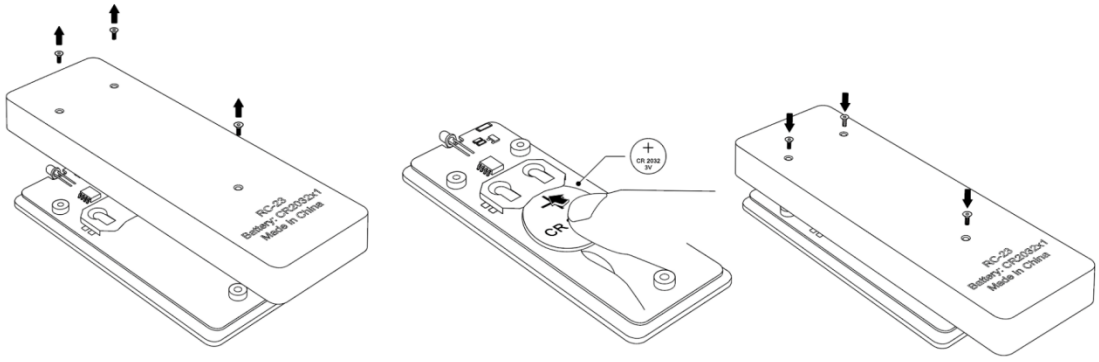


（蓝色VU）

*左右屏幕的VU表、VU条、FFT分别显示当前输入下左右声道的线路输出（Line Out）的平衡输出幅值；其中蓝VU表、VU条、FFT中的0dB为4.2Vrms，经典表的0dB为+4dBu或者+10dBu，可在菜单中设置[设置菜单-显示-经典VU 0dB幅值]

2.4 遥控

1. 安装电池遥控



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。

2. 遥控器说明

安装电池后，若仍然无法使用遥控，可尝试同时长按“待机”和“静音”键，直到指示灯闪烁两次，完成遥控匹配。

A B按键：

可自定义功能，于“设置菜单”的“高级”中有详细说明。

C1 C2按键：

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。

功能说明：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，DX9 Discrete有不同的设置。

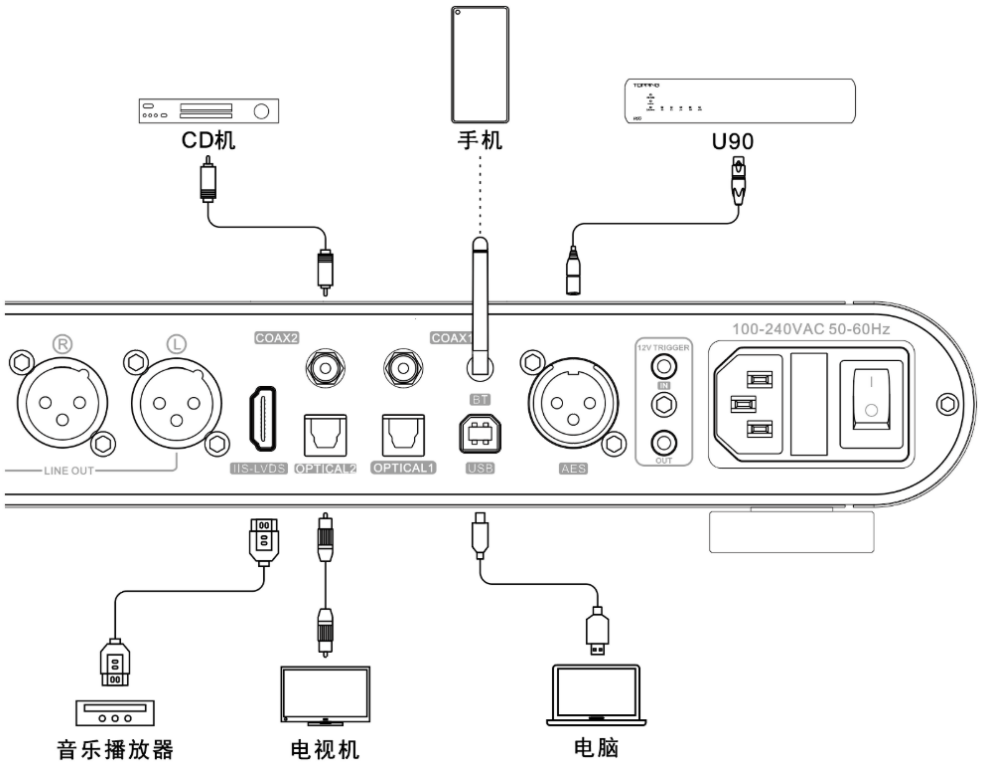
DX9 DISCRETE 设置	场景1：连接耳机使用	场景2： 连接功放使用
输入通道	USB输入	蓝牙输入
输出通道	耳放 6.35	前级
音量大小	-30dB	-10dB

从场景1切换到场景2使用需要更改不少设置，这时使用C1和C2按键分别将这两种场景的DX9 Discrete设置保存，切换到场景2时，只需要按压C2按键就能一键调用全部的设置，无需逐个更改。

3. 连接

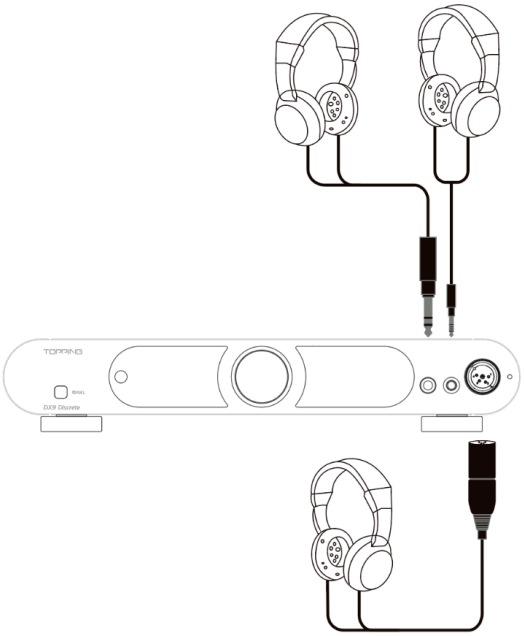
3.1 连接输入源

共6类输入接口可供选择：IIS、USB、光纤、同轴、蓝牙和AES。



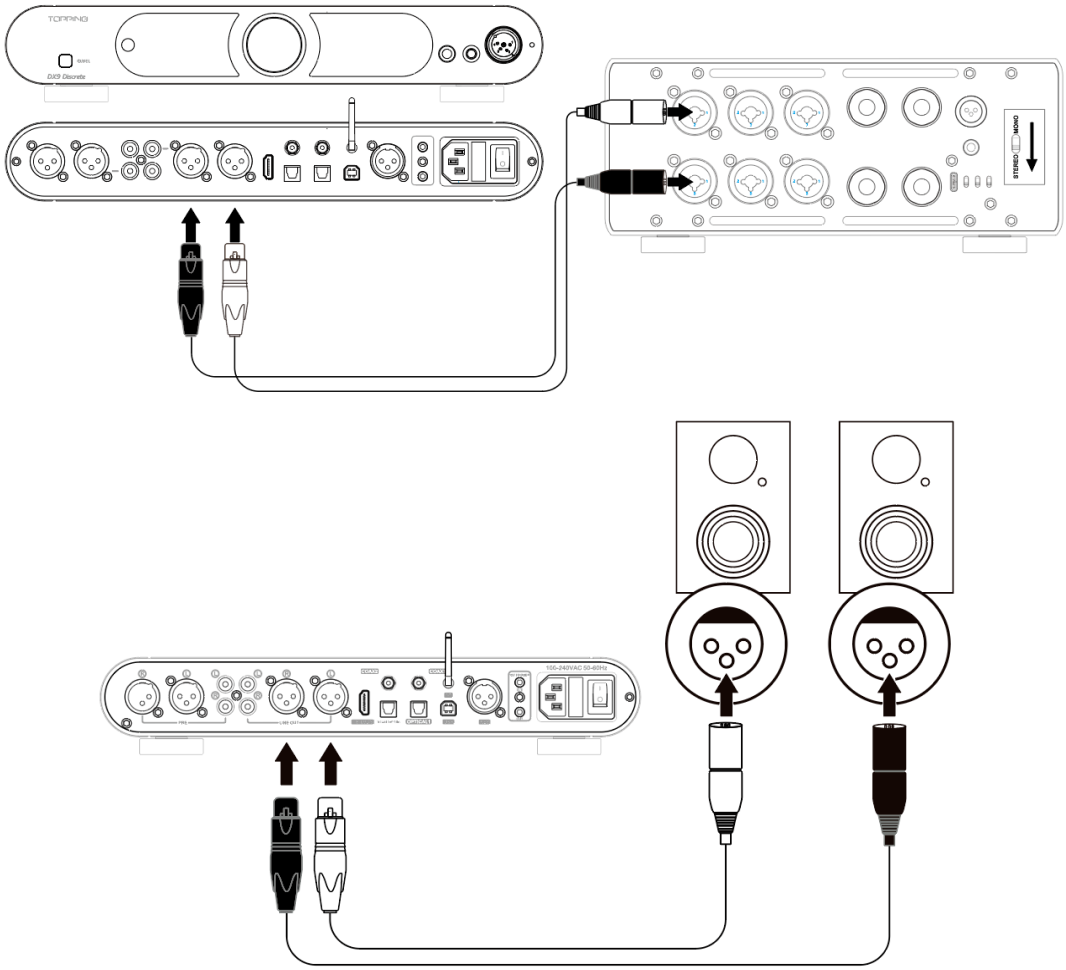
3.2 连接耳机

三类耳机接口输出可供选择：四芯XLR，4.4mm和6.35mm。



3.3 连接功率放大器或有源音箱

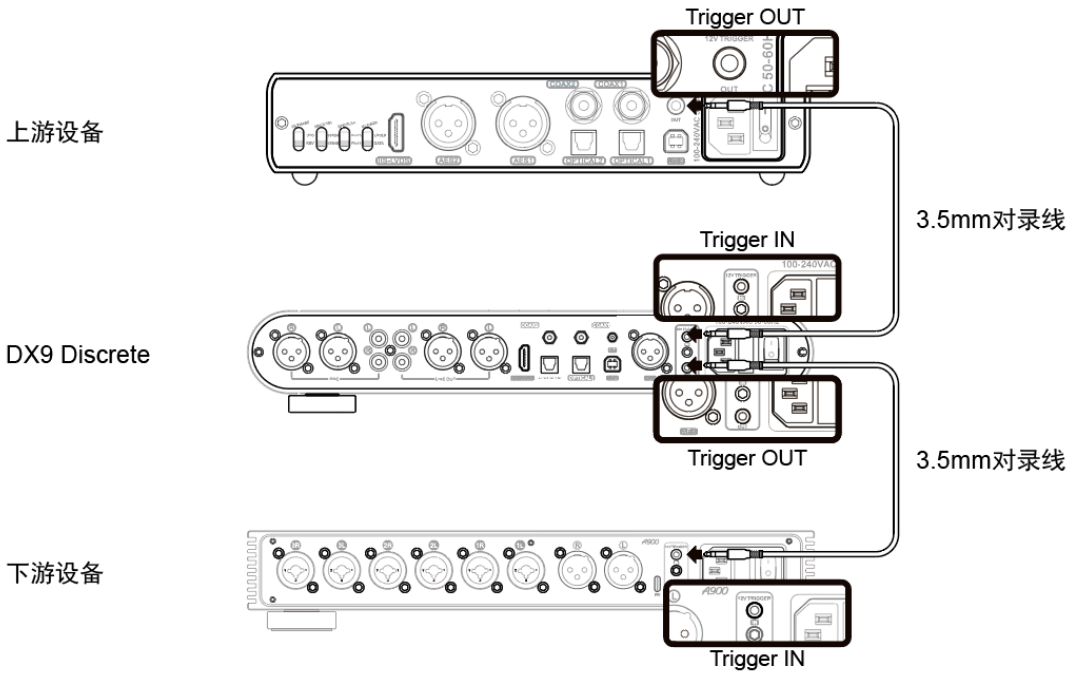
使用RCA或XLR线缆连接至功率放大器或有源音箱，连接前请先关闭功率放大器或有源音箱，以免损坏设备。



3.4 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DX9 Discrete开机/待机，DX9 Discrete可控制Trigger Out所连接的下游设备开机/待机。

* 注意使用DX9 Discrete的Trigger IN功能时，需要在 [设置菜单-高级-开关机触发] 将开关机触发设置为“12V”。

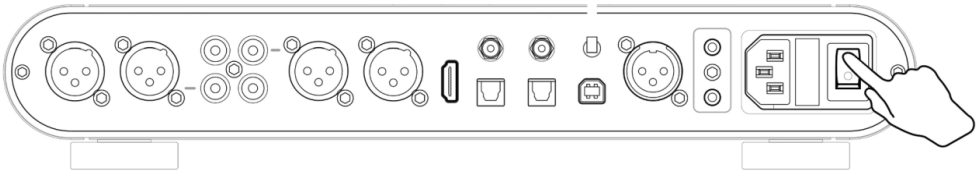


4. 操作说明

4.1 开关机/待机操作

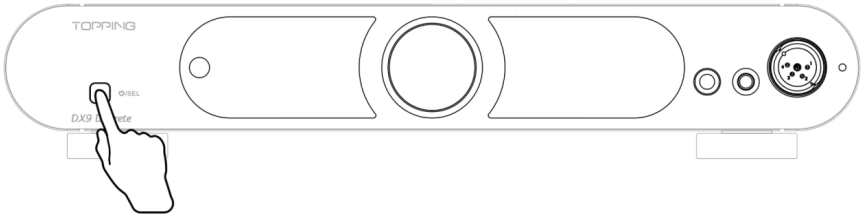
1. 开关机

打开或者关闭后面板的电源开关，即可实现DX9 Discrete的开关机。



2. 待机、退出待机设置

使用前面板左侧的多功能按键，短按开机，长按待机。亦可使用遥控器。



4.2 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DX9 Discrete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“音量+”或“音量-”按键可以调节DX9 Discrete的音量。注意长按遥控器上的“音量+”或“音量-”按键会快速调节音量，要小心操作以保护听力。

特别说明：解码模式选择DAC并且仅线路输出时，音量固定为0dB，音量大小调节无效。[设置菜单-输出设置-输出选择-线路 & 输出设置-解码模式-DAC]

4.3 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。

- 自动检测有效信号

  系统将自动检测各输入接口是否接收到有效信号。如检测到有效信号，该输入通道将被自动添加至输入选项中，切换输入时将在这些通道间进行切换。
- 手动选择（默认）

  您也可以手动选择所需的输入通道。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。

可选输入通道包括：

☐ USB
☐ 光纤1
☐ 光纤2
☐ 同轴1
☐ 同轴2
☐ AES
☐ IIS
☐ 蓝牙

2. 输入通道切换

完成输入选项设置后，按压前面板的音量旋钮或者遥控上的“输入切换”按键即可依次循环切换输入。

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

4.4 输出设置

1. 输出选项设置

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：

☐ 全部
☐ 线路全部
☐ 前级全部
☐ 耳放全部
☐ 线路单端
☐ 线路平衡
☐ 前级单端
☐ 前级平衡
☐ 耳放6.35

☐ 耳放4.4
☐ 耳放XLR-4

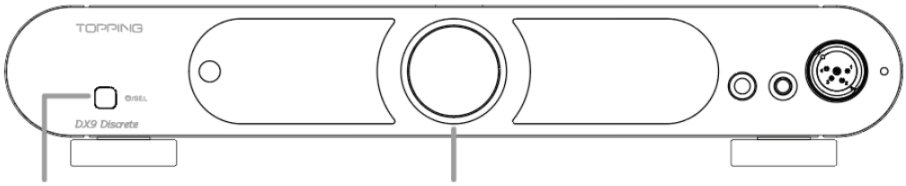
2.输出通道切换

完成输出选项设置后，按压遥控右侧的“输出切换”按键即可依次循环切换输出。

5. 设置菜单

5.1 进入菜单和更改设置

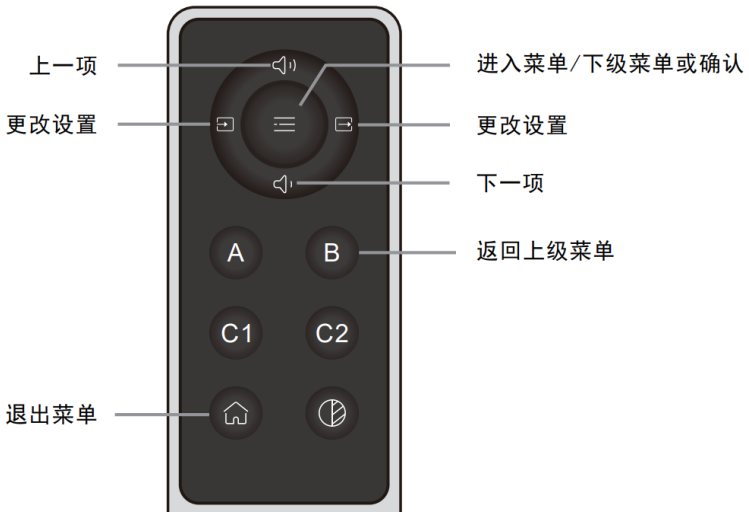
1. 使用前面板按键



按压：进入/退出设置菜单或返回上级菜单

转动：切换设置项
按压：更改设置/确认

2. 使用遥控器



5.2显示

主题

多种主题可供选择，默认极光

主页

选择主页显示界面常规（默认）、VU、FFT

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。

VU样式

当主页选择VU时，可切换VU表样式。

经典（默认）、蓝色

经典VU 0dB

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，DX9 Discrete的当前输出幅值就是+4dBu。+4dBu（默认）、+10dBu

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

屏幕

可调换左右两边的界面显示

正常（默认）、置换

氛围灯

亮度低、中（默认）、高、关

5.3 输入设置

输入选择

USB（默认）/ 根据“输入选项”勾选的列表循环

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。

- 自动检测有效信号
  系统将自动检测各输入接口是否接收到有效信号。如检测到有效信号，该输入通道将被自动添加至输入选项中，切换输入时将在这些通道间进行切换。
- 手动选择 （默认）
  您也可以手动选择所需的输入通道。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。

可选输入通道包括：

- ☐ USB
- ☐ 光纤1
- ☐ 光纤2
- ☐ 同轴1
- ☐ 同轴2
- ☐ AES
- ☐ IIS
- ☐ 蓝牙

UAC

UAC2.0（默认）、UAC1.0

蓝牙

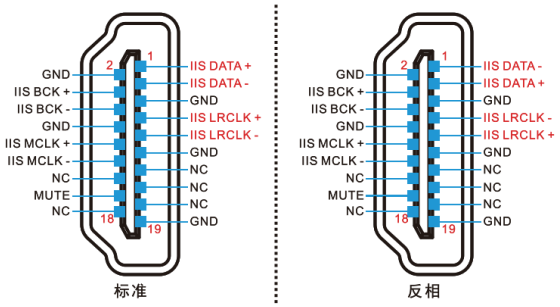
启用（默认）、禁用

蓝牙aptX

启用（默认）、禁用本机支持多种音频编码，设置为禁用时，可禁用APTX-Adaptive编码，使用其余编码（视手机而定）。

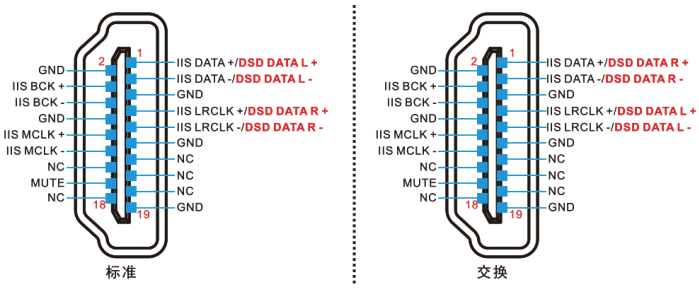
IIS相位

标准（默认）、反相



IIS DSD通道

标准（默认）、交换



DSD MUTE

高电平有效（默认）、低电平有效、关

注意：当使用IIS接口切换采样率出现噪声时可选择高/低电平有效来消除噪声

5.4 输出设置

输出选择

全部（默认）/ 根据“输出选项”勾选的列表循环

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：

- ☐ 全部
- ☐ 线路全部
- ☐ 前级全部
- ☐ 耳放全部
- ☐ 线路单端
- ☐ 线路平衡
- ☐ 前级单端
- ☐ 前级平衡
- ☐ 耳放6.35

☐ 耳放4.4
☐ 耳放XLR-4

增益

可设置耳放和前级输出的增益

低增益（默认）、高增益

极性设置

标准（默认）、反相

通道平衡度

可设置范围：C（平衡），L+0.5~9.5dB或R+0.5~9.5dB。（默认：C）注意：使用前面板旋钮设置时，需要按压一下旋钮进入该项设置，转动旋钮调节数值，再次按压旋钮退出该设置。

音量步进

设置0.5dB（默认）、1dB注意：选择 0.5 dB 时，短按遥控音量+-可按 0.5 dB 调节音量，长按则以 1 dB 步进调节。

解码模式

PRE（默认）、DAC注意：此模式仅在线路输出生效，当选择DAC模式，将固定最大音量输出。 [设置菜单-输出设置-输出选项-线路全部/单端/平衡]

5.5 DSP配置

PEQ

PEQ

启用、禁用（默认）

PEQ支持规格：

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

配置

内置5个默认预设配置供用户选择，默认预设配置可在Topping Tune上修改。另外还可通过Topping Tune软件保存5个自定义的配置到DX9 Discrete上，DX9 Discrete可离线使用该配置。

互馈

类型

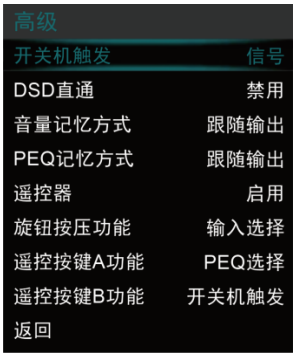
卷积、简易、关（默认）

注意：对所有输入和输出接口均有效（44.1kHz-48kHz/24bit-32bit）

配置

不同互馈类型下内置了相应的预设配置，可根据喜欢的听感自行选择。

5.6 高级



开关机触发

- 信号：根据输入信号触发开机/关机。在一分钟内如果当前输入没接入或者当前输入信号无效时自动进入待机状态，一旦检测到任一输入存在有效信号接入就可以自动恢复正常工作状态。（默认）
- 12V：根据12V信号触发开机&待机。配备12V 触发输出的设备连接DX9 Discrete的触发输入后，可控制DX9 Discrete开机/进入待机。当触发输入接口检测到12V信号从无到有时，DX9 Discrete会自动开机；当检测到12V信号从有到无时，则自动进入待机状态。
- 关闭：关闭该功能

DSD直通

启用、禁用（默认）

DSD直通支持规格：

USB IN	DSD64-DSD256 (Native) , DSD64-DSD256 (DoP)
IIS IN	DSD64-DSD256 (Native) , DSD64-DSD256 (DoP)
COAX/OPT/AES IN	DSD64 (DoP)
BT IN	不支持

音量记忆方式

- 跟随输出：记忆各个输出通道上次使用时的音量和增益，并在下次使用该通道时，音量会自动恢复为上次使用时的音量和增益。（默认）
- 跟随输入：记忆各个输入通道上次使用时的音量和增益，并在下次使用该通道时，音量会自动恢复为上次使用时的音量和增益。
- 无：不使用该功能

PEQ记忆方式

- 跟随输出：记忆各个输出通道上次使用时的PEQ配置选择，并在下次使用该通道时，会自动恢复上次使用时的PEQ配置。（默认）

- 跟随输入：记忆各个输入通道上次使用时的PEQ配置选择，并在下次使用该通道时，会自动恢复上次使用时的PEQ配置。
- 无：不使用该功能

遥控器

启用（默认）、禁用

旋钮按压功能

可自定义按压旋钮的功能

静音、输入选择（默认）、输出选择、增益、主页选择、亮度选择、息屏、开关机触发、PEQ开关、PEQ选择、互馈类型、互馈配置

遥控按键A功能

可自定义遥控按键A功能

静音、输入选择、输出选择、增益、主页选择、亮度选择、息屏、开关机触发、PEQ开关、PEQ选择（默认）、互馈类型、互馈配置

遥控按键B功能

可自定义遥控按键B功能

静音、输入选择、输出选择、增益、主页选择、亮度选择、息屏、开关机触发（默认）、PEQ开关、PEQ选择、互馈类型、互馈配置

5.7 语言

English、中文

5.8 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。

6. 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

7. 注意事项

- 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。
- 不得随意拆开机壳，如需维修应请专业维修人员处理。
- 本机仅供室内使用。
- 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。
- 因产品改进，规格及功能若有变动恕不另行通知。

8. 产品基本属性

尺寸	34.0cm x 22.5cm x 6.0cm (包含突出部分)
单机重量	2750g
电源	100-240VAC 50Hz/60Hz
输入接口	USB/BT/OPT1/OPT2/COAX1/COAX2/AES/IIS
线路输出接口	XLR/RCA
前级输出接口	XLR/RCA
耳放输出接口	1 x 6.35mm耳机接口 1 x 4.4mm平衡耳机接口 1 x XLR四芯平衡耳机接口
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	两个2.0寸LCD彩屏
待机功耗	<2.5W
正常工作功耗	<18W

9. 支持规格

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	

DX9 Discrete 参数

解码参数一览表（LINE OUT/USB IN@96KHZ）

输出	RCA	XLR

总谐波失真 @1kHz（A-wt）	<0.00007%	<0.00006%
总谐波失真 @20-20kHz（45kBw）	<0.0004%	<0.0003%
信噪比 @1kHz （A-wt）	128dB	131dB
动态范围 @1kHz （A-wt）	128dB	131dB
频率响应	20Hz-20kHz(±0.6dB) 20Hz-40kHz(±2.0dB)	20Hz-20kHz(±0.6dB) 20Hz-40kHz(±2.0dB)
输出幅值	2.5Vrms @0dBFS	5.2Vrms @0dBFS
底噪 （A-wt）	<1.1uVrms	<1.6uVrms
声道串扰	-125dB @1kHz	-136dB @1kHz
声道平衡度	0.3 dB	0.3 dB
输出内阻	50Ω	100Ω

耳放参数一览表(USB IN@96KHZ)

	单端耳机接口	**平衡耳机接口**
总谐波失真加噪声 @1kHz（A-wt）	<0.00007% @Output=550mW(32Ω) <0.00007% @Output=60mW(300Ω)	<0.00007% @Output=550mW (32Ω) <0.00007% @Output=60mW (300Ω)
总谐波失真 @20-20kHz （45kBW）	<0.00050% @Output=550mW(32Ω) <0.00050% @Output=60mW(300Ω)	<0.00050% @Output=550mW(32Ω) <0.00030% @Output=60mW (300Ω)
信噪比 @MAX OUT 1kHz（A-wt）	130dB @1kHz	131dB @1kHz

动态范围 @1kHz （A-wt）	130dB @1kHz	131dB @1kHz
频率响应	20Hz-20kHz(±0.6dB) 20Hz-40kHz(±2.0dB)	20Hz-20kHz(±0.6dB) 20Hz-40kHz(±2.0dB)
输出幅值	15Vpp @G=L 24Vpp @G=H	15Vpp @G=L 48Vpp @G=H
AP测试噪声值 （A-wt）	<1.3uVrms @G=L <1.6uVrms @G=H	<0.8uVrms @G=L <2.4uVrms @G=H
实际噪声值* （A-wt）	<1.1uVrms @G=L <1.4uVrms @G=H	<0.5uVrms @G=L <2.1uVrms @G=H
声道串扰	-130dB @1kHz	-133dB @1kHz
增益	G=L 12.5dB(Vrms/FS) G=H 18.5dB(Vrms/FS)	G=L 12.5dB(Vrms/FS) G=H 24.5dB(Vrms/FS)
声道平衡度	0.3 dB	0.3 dB
输出阻抗	<0.1Ω	<0.1Ω
输出功率	3300mW x 2 @16Ω THD+N<1% 2120mW x 2 @32Ω THD+N<1% 1190mW x 2 @64Ω THD+N<1% 270mW x 2 @300Ω THD+N<1%	10000mW x 2 @16Ω THD+N<1% 7080mW x 2 @32Ω THD+N<1% 4250mW x 2 @64Ω THD+N<1% 1060mW x 2 @300Ω THD+N<1% 540mW x 2 @600Ω THD+N<1%
适配阻抗	>8Ω	>8Ω

*说明：实际噪声值是将经过噪声放大器放大40dB(100倍)的DX9 Discrete的噪声信号输入到APx555B，并将读数除以100倍。

前级参数一览表(USB IN@96KHZ)

	RCA	**XLR**
总谐波失真加噪声 @1kHz（A-wt）	<0.00007%	<0.00007%

总谐波失真 @20-20kHz（45kBW）	<0.0004%	<0.0003%
信噪比 @MAX OUT 1kHz（A-wt）	130dB @1kHz	131dB @1kHz
动态范围 @1kHz（A-wt）	130dB @1kHz	131dB @1kHz
频率响应	20Hz-20kHz(±0.6dB) 20Hz-40kHz(±2.0dB)	20Hz-20kHz(±0.6dB) 20Hz-40kHz(±2.0dB)
输出幅值	15Vpp @G=L 24Vpp @G=H	15Vpp @G=L 48Vpp @G=H
AP测试噪声值 （A-wt）	<1.7uVrms @G=L <2.0uVrms @G=H	<0.8uVrms @G=L <2.1uVrms @G=H
实际噪声值* （A-wt）	<1.1uVrms @G=L <1.4uVrms @G=H	<0.5uVrms @G=L <2.1uVrms @G=H
声道串扰	-113dB @1kHz	-135dB @1kHz
增益	G=L 14.4dB(Vrms/FS) G=H 20.1dB(Vrms/FS)	G=L 14.4dB(Vrms/FS) G=H 26.5dB(Vrms/FS)
声道平衡度	0.3 dB	0.3 dB
输出阻抗	50Ω	100Ω

*说明：实际噪声值是将经过噪声放大器放大40dB(100倍)的DX9 Discrete的噪声信号输入到APx555B，并将读数除以100倍。

Table of Contents

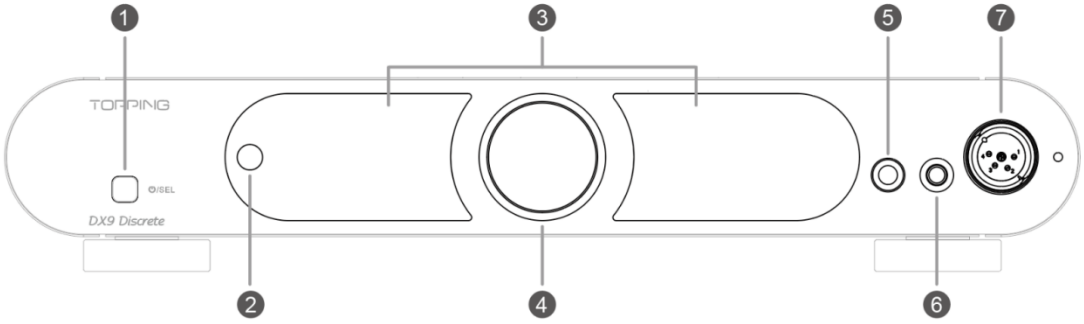
1. Contents list

DX9 Discrete	x1
RC23 Remote control	x1
USB cable	x1
6.35mm to 3.5mm adaptor	x1
AC cable	x1
Bluetooth antenna	x1
Product information card	x1

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

2. Parts and names

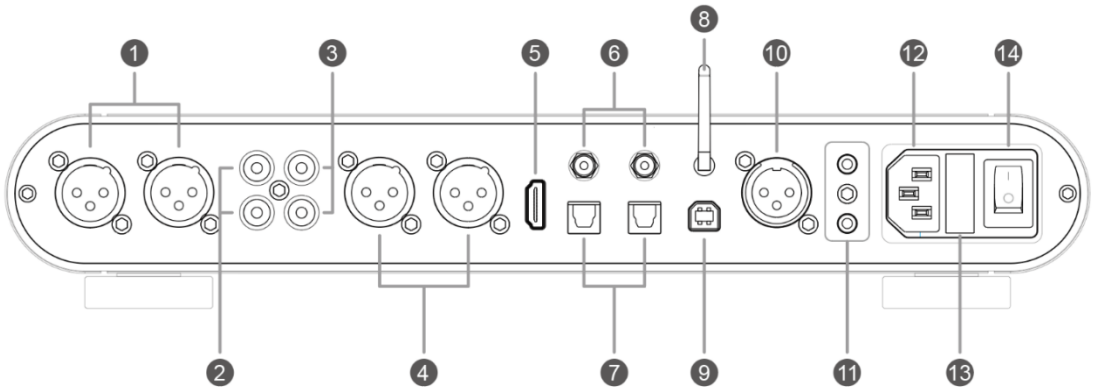
2.1 Front panel



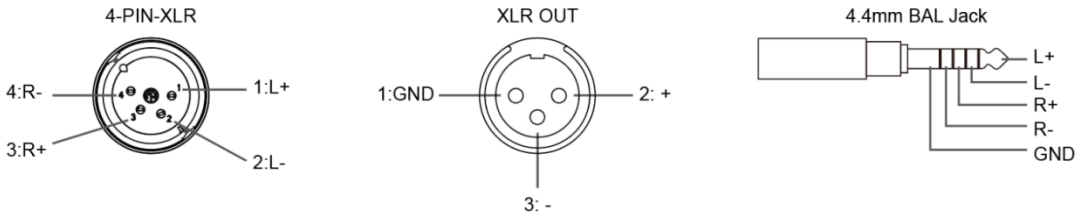
1. Multifunction button
2. Remote control receiver
3. Screen

4. Volume knob & User-defined button
   Rotate the knob: Adjust the volume.
   Press the knob: User-defined function. Please set it at [Setup Menu-Advanced-Knob press].
5. 6.35mm headphone output jack
6. 4.4mm balanced headphone output jack
7. 4-PIN-XLR headphone output jack

2.2 Rear panel



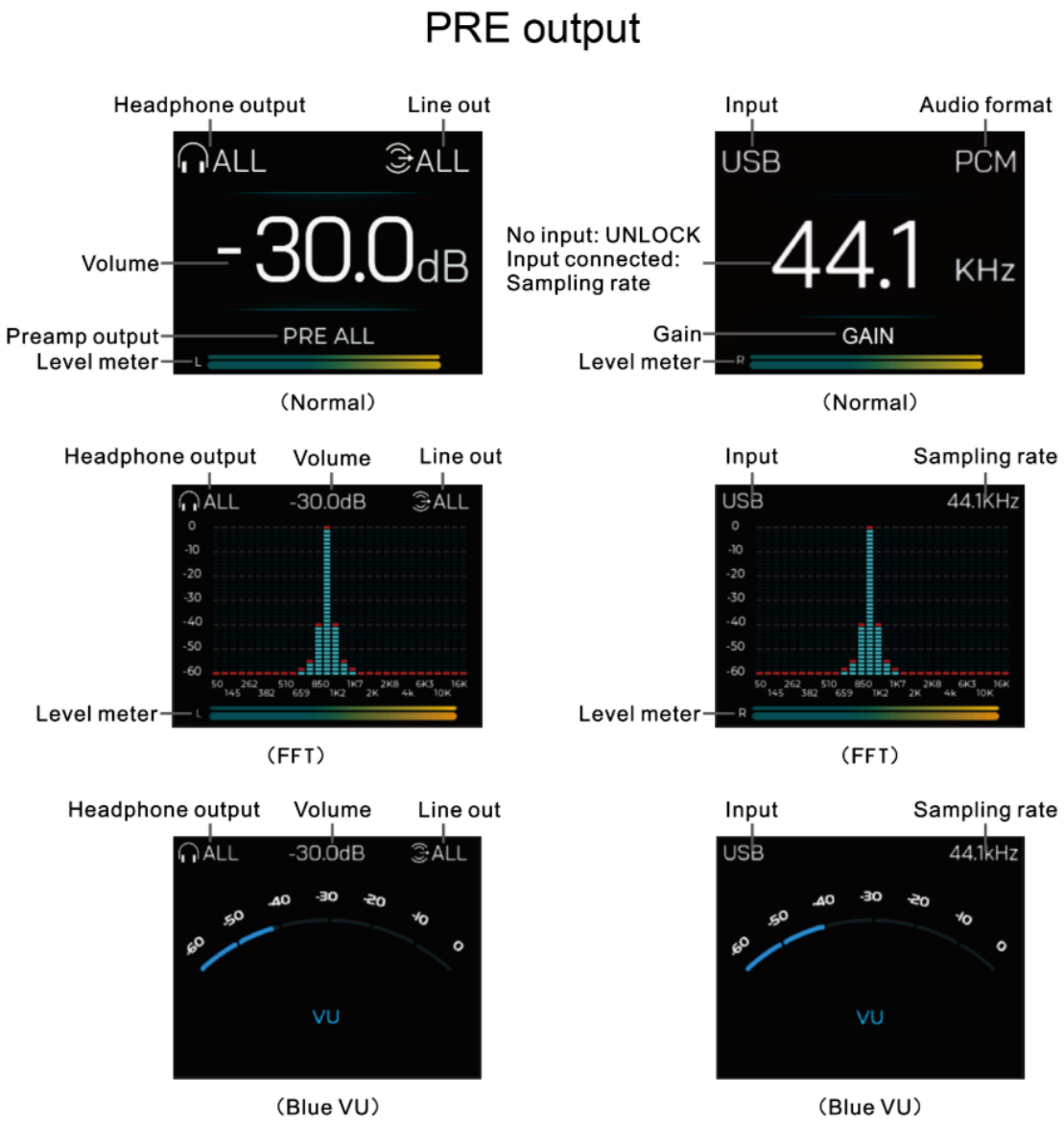
1. XLR balanced preamp output
2. RCA single-ended preamp output
3. RCA single-ended Lineout output
4. XLR balanced Lineout output
5. IIS input
6. Coaxial SPDIF input
7. Optical SPDIF input
8. Bluetooth input
9. USB input
10. AES input
11. 12V Trigger IN/OUT (3.5mm jack)
    See "3. Connection - Connect 12V Trigger", below.
12. Power input (AC 100-240V 50Hz/60Hz)
13. Fuse
14. Power switch



2.3 Display

There are three types of homepage display: Normal, VU and FFT, which are set in the menu [Setup - Display - Home].

There are two types of VU Meter styles: classic and blue, which can be switched in the menu [Setup - Display - VU style].

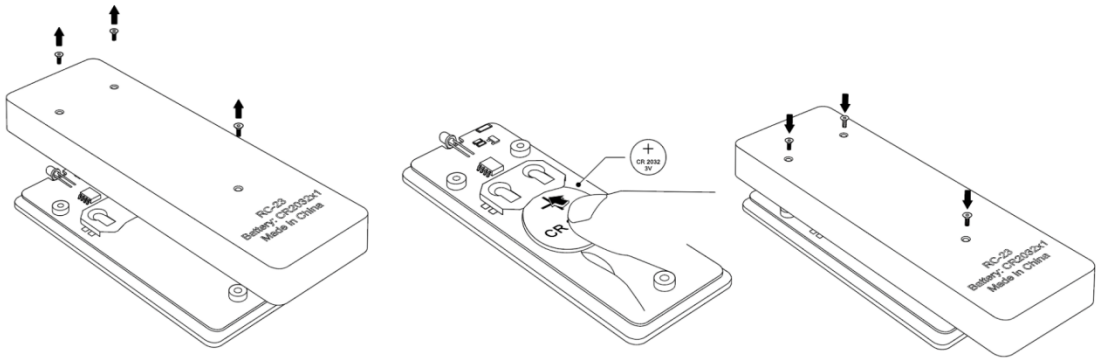


Note:

- The left and right VU meters, Level meter, and FFT displays respectively show the balanced output levels of the Line Out for the left and right channels under the current input.
- The 0dB in the blue VU meter, Level meter, and FFT is 4.2Vrms, and the 0dB in the classic meter is +4dBu or +10dBu. It can be set in the menu [Setup Menu-Display-Classic VU 0dB]

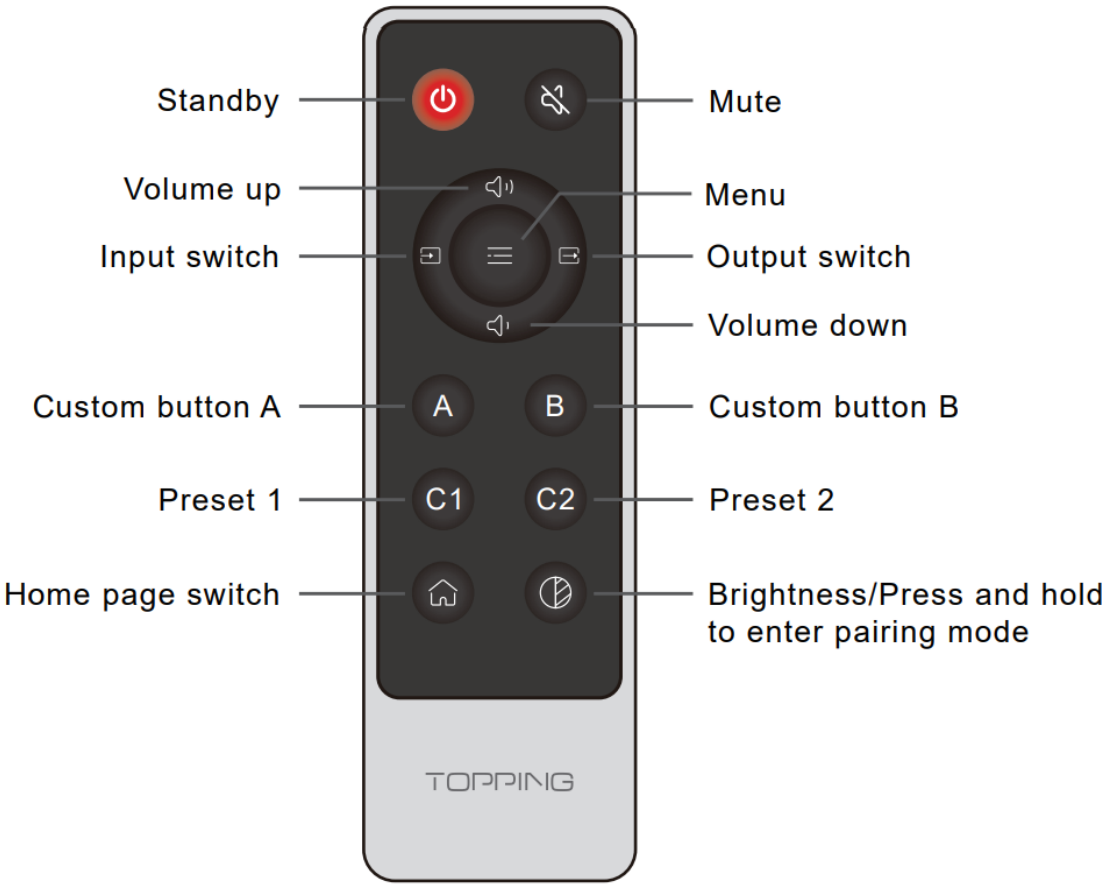
2.4 Remote control

2.4.1 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.

2.4.2 Remote Control Overview



After installing the battery, if the remote control still doesn't work, try pressing and holding both the "Standby" and "Mute" buttons simultaneously until the indicator light flashes twice to complete pairing.

A B buttons：

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

C1 C2 buttons：

Operation: Press and hold the C1/C2 button for 3 seconds to save the current settings. Short press the C1/C2 button to use the corresponding settings.

What was saved: Volume and all settings in the setup menu, such as input channel, output channel, etc.

When to use: 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.

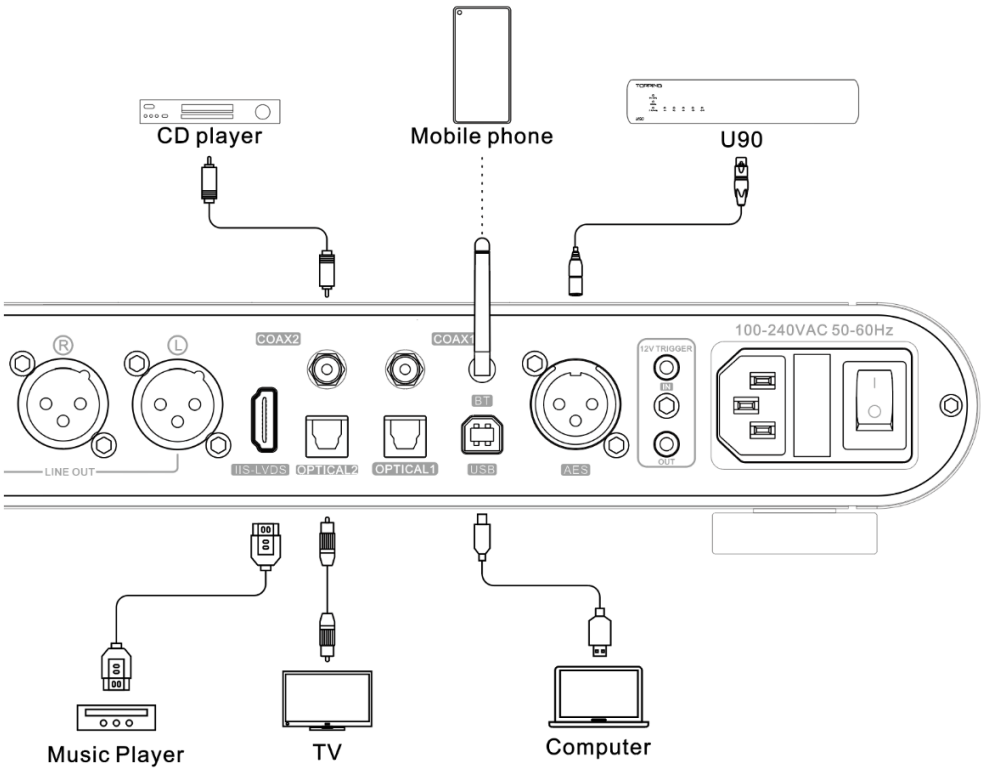
DX9 Discrete	Usage scenario 1: Connect with Headphone	Usage scenario 2: Connect with power amplifier
Input channel	USB IN	BT IN
Output channel	HPA ALL	PRE ALL
Volume	-30dB	-10dB

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.

3. Connection

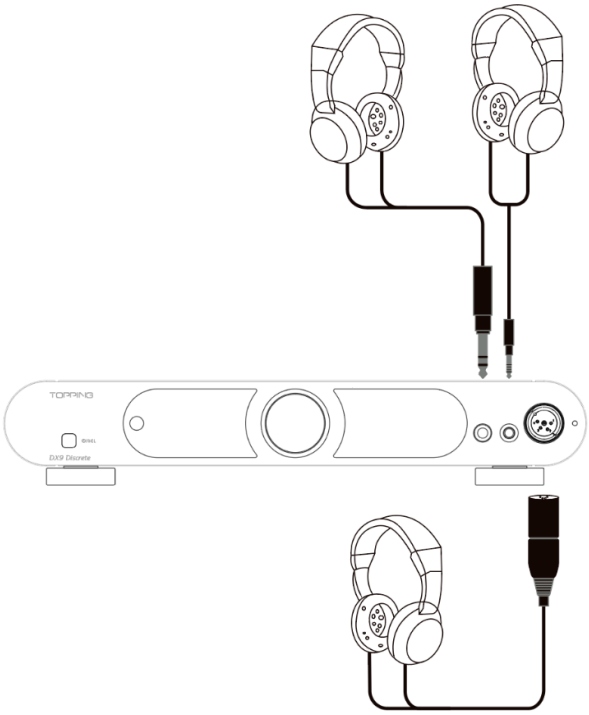
3.1 Connect to the input source

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



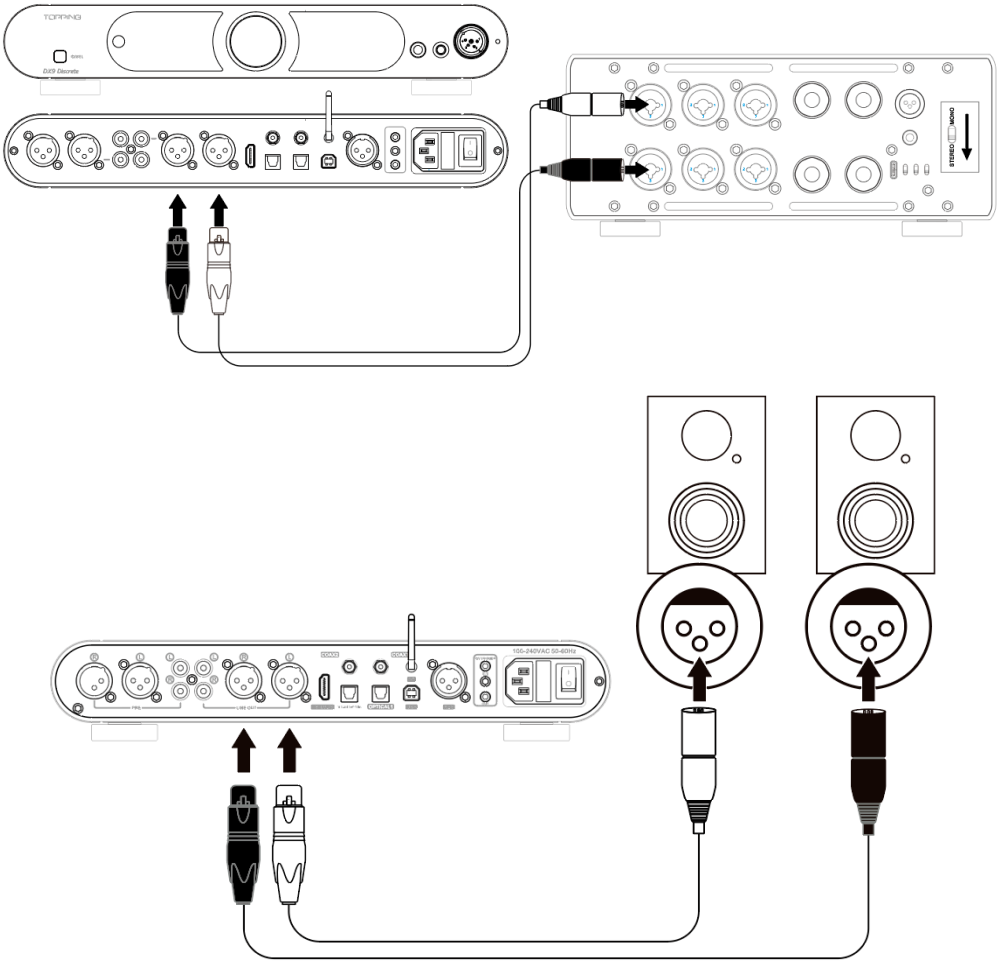
3.2 Connect to headphone

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



3.3 Connect to amplifier or active speaker

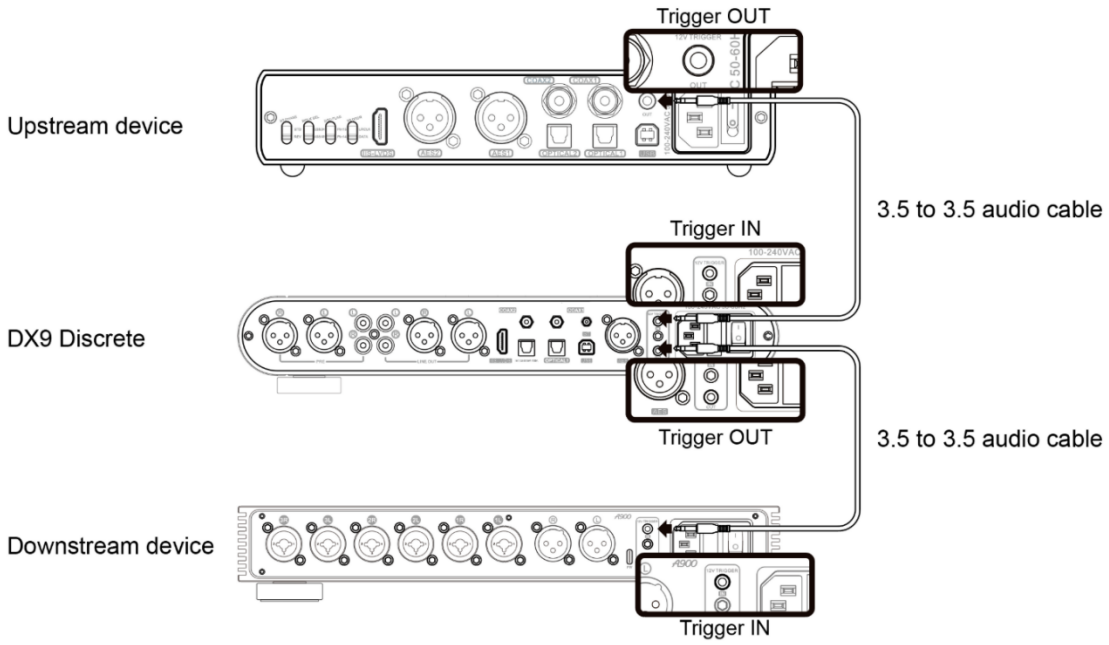
Use XLR or RCA cables to connect to power amplifier or active speakers. In order to avoid damage to your devices, please turn off the amplifier or active speakers before you connect them to DX9 Discrete.



3.4 Connect 12V Trigger

The 12V Trigger IN/OUT allows the DX9 Discrete 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 DX9 Discrete, and the downstream device connected to Trigger Out can be controlled by DX9 Discrete.

*Before using the Trigger IN function, you need to set the On/Off trigger mode to "12V" in the setup menu. [Setup menu-Advanced-On/Off trigger]

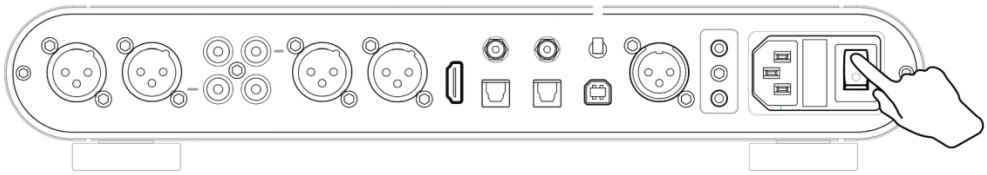


4. Operation

4.1 Power on & off / standby operation

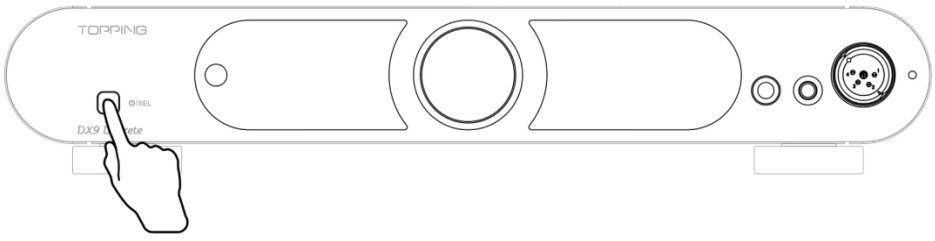
4.1.1 Power on & off

Press the power switch on the rear panel to turn the DX9 Discrete on or off.



4.1.2 Standby setting

When it is working, press and hold the 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.



4.2 Volume setting

4.2.1 Mute and unmute

Press the mute button on the remote control to mute DX9 Discrete, press the mute button again or adjust the volume to exit mute state.

4.2.2 Volume adjusting

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

Special Note: When the DAC mode is set to DAC and the output is Line Out only, the volume is fixed at 0 dB, and volume adjustment will be disabled. [Setup - Output Settings - Output select - LO & Output Settings - DAC Mode - DAC]

4.3 Input settings

4.3.1 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. The system supports two configuration methods: Auto-detect and Manual. You may choose either based on your actual usage needs.

- Auto-detect

  The system will automatically detect whether a valid signal is received at each input port. If a valid signal is detected, the corresponding input channel will be added to the input options list. During input switching, the system will cycle through these channels.

- Manual (Default)

  You may also manually select the input channels you wish to use. Once selected, the system will only switch between these specified channels during input switching.

Available input channels include:

☐ USB
☐ OPT1 (Optical1)
☐ OPT2 (Optical2)
☐ COAX1 (Coaxial1)
☐ COAX2 (Coaxial2)
☐ AES
☐ IIS
☐ BT (Bluetooth)

4.3.2 Input channel switching

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

4.4 Output settings

4.4.1 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
☐ LO ALL
☐ PRE ALL
☐ HPA ALL
☐ LO SE
☐ LO BAL
☐ PRE SE
☐ PRE BAL
☐ HPA 6.35
☐ HPA 4.4
☐ HPA XLR-4

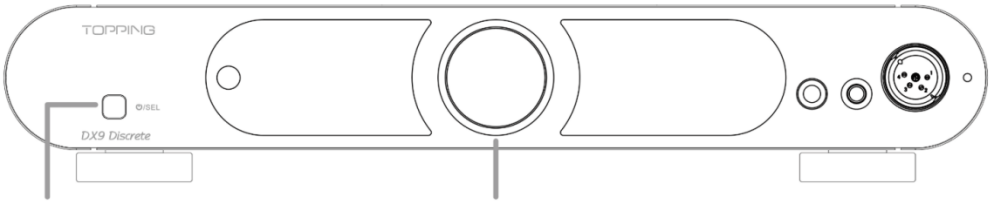
4.4.2 Output channel switching

After configuring the output options, you can press "output switch" button on the remote control to switch the output circularly.

5. Setup Menu

5.1 Enter menu and change settings

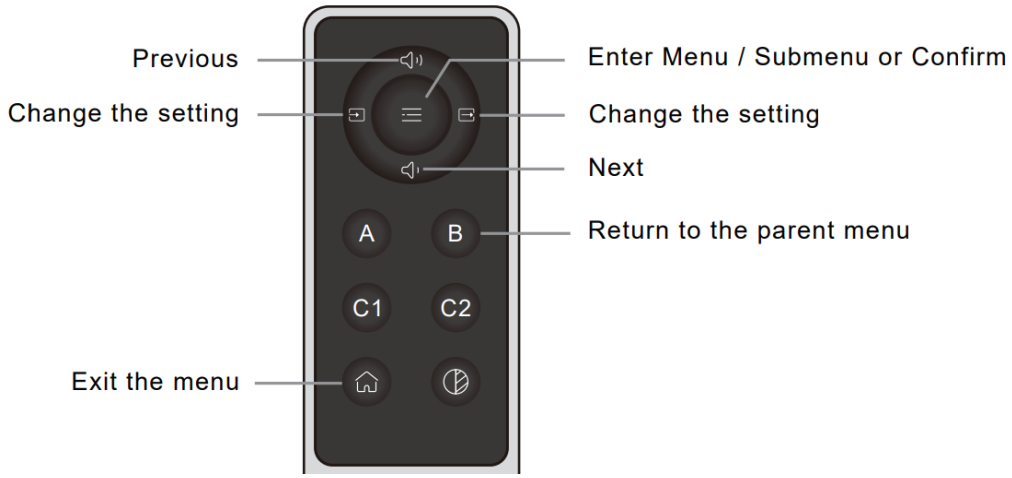
5.1.1 Buttons on front panel



Press: Enter/exit the setup menu or return to the parent menu

Rotate it: Choose setting item
Press it: Change the setting/OK

5.1.2 The remote control



5.2 Display

Theme

Multiple options available, default Aurora.

Home

Choose home page

Normal (Default), VU, FFT

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.

VU style

Select VU meter style

Classic (Default), Blue

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 DX9 Discrete is +4dBu.

+4dBu (Default), +10dBu

Level meter

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

Screen

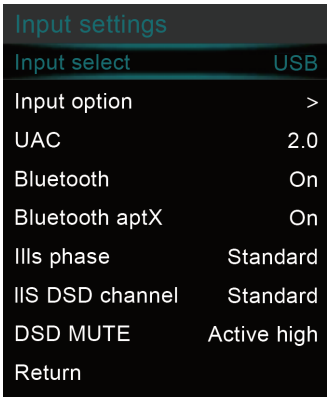
Switch left and right displays

Normal(Default), Inverted

LED

Low, Medium (Default), High, OFF

5.3 Input settings



Input select

USB(Default)/Input option

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.

- Auto-detect

  The system will automatically detect whether a valid signal is received at each input port. If a valid signal is detected, the corresponding input channel will be added to the input options list. During input switching, the system will cycle through these channels.
- Manual (Default)

  You may also manually select the input channels you wish to use. Once selected, the system will only switch between these specified channels during input switching.

Available input channels include:

☐ USB
☐ OPT1 (Optical1)
☐ OPT2 (Optical2)
☐ COAX1 (Coaxial1)
☐ COAX2 (Coaxial2)
☐ AES
☐ IIS
☐ BT (Bluetooth)

UAC

UAC2.0 (Default), UAC1.0

Bluetooth

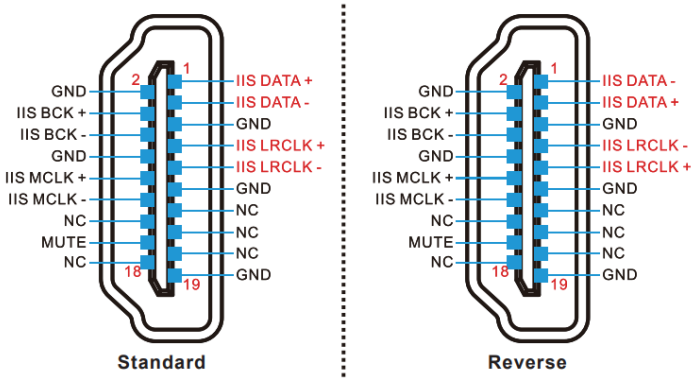
Enabled (Default), Disabled

Bluetooth aptX

Enabled (Default), Disabled
The DX9 Discrete supports multiple Bluetooth codecs. When set to OFF, the APTX-Adaptive will be disabled, allowing the use of other codecs (depending on the phone).

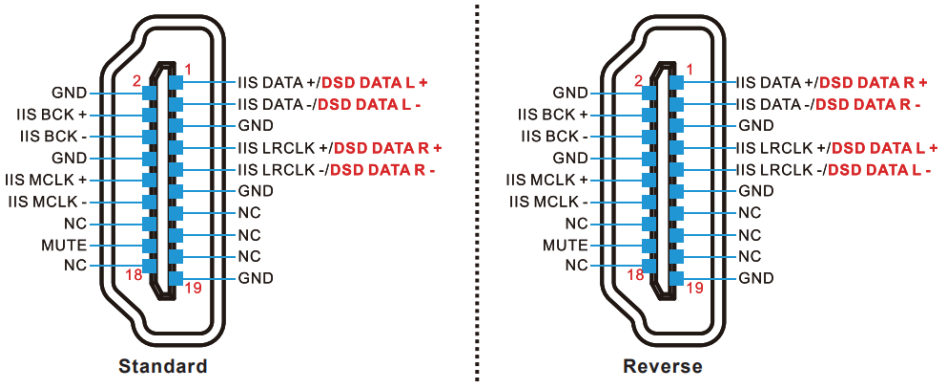
IIS phase

Standard (Default), Reverse



IIS DSD chennael

Standard (Default), Swap

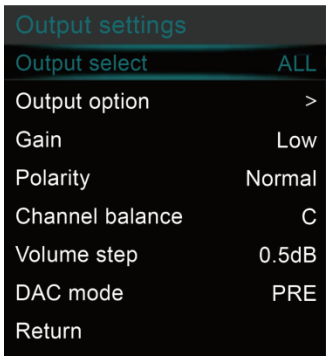


DSD MUTE

Active high (Default), Active low, Off

When using the IIS interface, noise appears when switching the sample rate. You can choose Active high/low to eliminate the noise.

5.4 Output settings



Output select

ALL(Default)/Output option

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
☐ LO ALL
☐ PRE ALL
☐ HPA ALL
☐ LO SE
☐ LO BAL
☐ PRE SE
☐ PRE BAL
☐ HPA 6.35
☐ HPA 4.4
☐ HPA XLR-4

Gain

Set the gain of the HPA output and PRE output.

Low (Default), Medium, High

Polarity

Normal(Default), Reverse

Channel balance

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

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

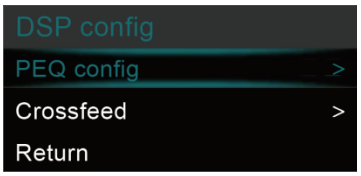
Volume step

0.5dB (Default), 1dB
When 0.5dB is selected, short press the remote volume+ - to adjust the volume by 0.5dB, and long press to adjust it in 1dB steps.

DAC mode

PRE (Default), DAC
Note: This mode is only effective for line output. When DAC mode is selected, the maximum volume output will be fixed. [Setup Menu - Output settings - Output option - LO ALL/LO SE/LO BAL]

5.5 DSP config



PEQ config

1. PEQ

Disabled (Default), Enabled

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

2. Config

There are 5 built-in default preset configurations for users to choose from, which can be modified via the Topping Tune software. Additionally, users can save 5 custom configurations to the DX9 Discrete through the Topping Tune software, allowing the DX9 Discrete to use these configurations offline.

Crossfeed

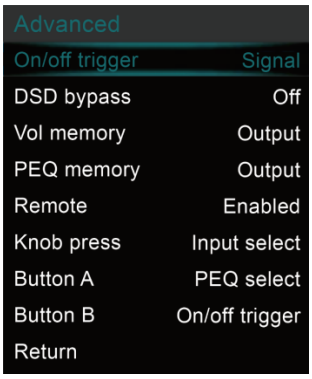
1. Type

Convolution、Sample、Off (Default)
Note: This is valid for all input and output interfaces (44.1kHz-48kHz/24bit-32bit)

2. Config

There are corresponding preset configurations built in for different Crossfeed types, and you can choose according to your preferred listening experience.

5.6 Advanced



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 DX9 Discrete's Trigger In is connected to another device's 12V Trigger Out, DX9 Discrete's on/standby state can be controlled through this device. The DX9 Discrete will remain in standby state until Trigger In detects the signal change from 0V to 12V. When changing back to 0V, the DX9 Discrete will return to standby state.
- **Off:** Disabled this function.

DSD bypass

Enabled, Disabled (Default)

DSD Bypass Support Range	
USB/IIS IN	DSD64-DSD256 (Native) , DSD64-DSD256 (DoP)
COAX/OPT/AES IN	DSD64 (DoP)
BT IN	Unsupported

Vol memory

- **Output:** Memorizes the volume of each output channel when it was last used. The next time the channel is used, the volume will automatically revert to the volume of its last use. (Default)
- **Input:** Memorizes the volume of each input channel when it was last used. The next time the channel is used, the volume will automatically revert to the volume of its last use.
- **Disabled:** Disabled this function.

PEQ memory

- **Output:** Memorizes the PEQ configuration used the last time for each output channel, and automatically switches to that configuration the next time the same output channel is used. (Default)
- **Input:** Memorizes the PEQ configuration used the last time for each input channel, and automatically switches to that configuration the next time the same input channel is used.
- **Disabled:** Disabled this function.

Remote

Enabled (Default), Disabled

Knob press

Customize the function of the press knob.

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

Button A

Customizable function for remote control button A

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

Button B

Customizable function for remote control button B

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

5.7 Language

English, 中文

5.8 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.

6. 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

7. Precautions

- Do not keep the unit in a hot, humid environment or hit the unit strongly.
- Opening the case instantly voids the warranty!
- Indoor use only.
- Topping accepts no liability for any loss or damage arising directly or indirectly from the failure of DX9 Discrete.
- For improvement purposes, specifications subject to changes without prior notice.

8. Attribute

Measured	34.0cm x 22.5cm x 6.0cm (Include protruding parts)
Weight	2750g
Power input	100-240VAC 50Hz/60Hz
Signal input	USB/BT/OPT1/OPT2/COAX1/COAX2/AES/IIS
Line Out output	XLR/RCA
PRE output	XLR/RCA
Headphone Amplifier output	1 x 6.35mm headphone output jack 1 x 4-PIN-XLR headphone output jack 1 x 4.4mm headphone output jack
Other connectors	12V Trigger In (3.5mm jack) 12V Trigger Out (3.5mm jack)
Display	Two 2.0-inch LCDs
Standby power consumption	<2.5W
Power consumption	<18W

9. 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	

10. DX9 Discrete Specifications

DAC parameters（Line Out/USB In@96kHz）		
Output	**RCA**	**XLR**
THD+N @1kHz (A-wt)	<0.00007%	<0.00006%
THD @20-20kHz (45kBw)	<0.0004%	<0.0003%
SNR @1kHz (A-wt)	128dB	131dB
Dynamic Range @1kHz (A-wt)	128dB	131dB
Frequency Response	20Hz-20kHz(±0.6dB) 20Hz-40kHz(±2.0dB)	20Hz-20kHz(±0.6dB) 20Hz-40kHz(±2.0dB)
Output Level	2.5Vrms @0dBFS	5.2Vrms @0dBFS
Noise (A-wt)	<1.1uVrms	<1.6uVrms
Channel Crosstalk	-125dB @1kHz	-136dB @1kHz
Channel Balance	0.3 dB	0.3 dB

Output Impedance	50Ω	100Ω

Headphone Amplifier specifications (USB In@96kHz)		
	Single-end headphone jack	**Balance headphone jack**
THD+N @1kHz (A-wt)	<0.00007% @Output=550mW(32Ω) <0.00007% @Output=60mW(300Ω)	<0.00007% @Output=550mW(32Ω) <0.00007% @Output=60mW(300Ω)
THD @20-20kHz (45kBW)	<0.00050% @Output=550mW(32Ω) <0.00050% @Output=60mW(300Ω)	<0.00050% @Output=550mW(32Ω) <0.00030% @Output=60mW(300Ω)
SNR @MAX OUT 1kHz (A-wt)	130dB @1kHz	131dB @1kHz
Dynamic Range @1kHz (A-wt)	130dB @1kHz	131dB @1kHz
Frequency Response	20Hz-20kHz(±0.6dB) 20Hz-40kHz(±2.0dB)	20Hz-20kHz(±0.6dB) 20Hz-40kHz(±2.0dB)
Output Level	15Vpp @G=L 24Vpp @G=H	15Vpp @G=L 48Vpp @G=H
AP measured noise level (A-wt)	<1.3uVrms @G=L <1.6uVrms @G=H	<0.8uVrms @G=L <2.4uVrms @G=H
Actual noise level* (A-wt)	<1.1uVrms @G=L <1.4uVrms @G=H	<0.5uVrms @G=L <2.1uVrms @G=H
Channel Crosstalk	-130dB @1kHz	-133dB @1kHz
Gain	G=L 12.5dB(Vrms/FS) G=H 18.5dB(Vrms/FS)	G=L 12.5dB(Vrms/FS) G=H 24.5dB(Vrms/FS)
Channel Balance	0.3 dB	0.3 dB
Output Impedance	<0.1Ω	<0.1Ω

Output Power	3300mW x 2 @16Ω THD+N<1% 2120mW x 2 @32Ω THD+N<1% 1190mW x 2 @64Ω THD+N<1% 270mW x 2 @300Ω THD+N<1%	10000mW x 2 @16Ω THD+N<1% 7080mW x 2 @32Ω THD+N<1% 4250mW x 2 @64Ω THD+N<1% 1060mW x 2 @300Ω THD+N<1% 540mW x 2 @600Ω THD+N<1%
Load Impedance	>8Ω	>8Ω

***Note:**The actual noise level is obtained by boosting the noise of DX9 Discrete by 40dB using a low noise amplifier in front of the APx555B then dividing the measured noise by 100 times.

Pre-amplifier specifications (USB In@96kHz)		
	RCA	**XLR**
THD+N @1kHz (A-wt)	<0.00007%	<0.00007%
THD @20-20kHz (45kBW)	<0.0004%	<0.0003%
SNR @MAX OUT 1kHz (A-wt)	130dB @1kHz	131dB @1kHz
Dynamic Range @1kHz (A-wt)	130dB @1kHz	131dB @1kHz
Frequency Response	20Hz-20kHz(±0.6dB) 20Hz-40kHz(±2.0dB)	20Hz-20kHz(±0.6dB) 20Hz-40kHz(±2.0dB)
Output Level	15Vpp @G=L 24Vpp @G=H	15Vpp @G=L 48Vpp @G=H
AP measured noise level (A-wt)	<1.7uVrms @G=L <2.0uVrms @G=H	<0.8uVrms @G=L <2.1uVrms @G=H
Actual noise level* (A-wt)	<1.1uVrms @G=L <1.4uVrms @G=H	<0.5uVrms @G=L <2.1uVrms @G=H
Channel Crosstalk	-113dB @1kHz	-135dB @1kHz
Gain	G=L 14.4dB(Vrms/FS) G=H 20.1dB(Vrms/FS)	G=L 14.4dB(Vrms/FS) G=H 26.5dB(Vrms/FS)

Channel Balance	0.3 dB	0.3 dB
Output Impedance	50Ω	100Ω

***Note:**The actual noise level is obtained by boosting the noise of DX9 Discrete by 40dB using a low noise amplifier in front of the APx555B then dividing the measured noise by 100 times.