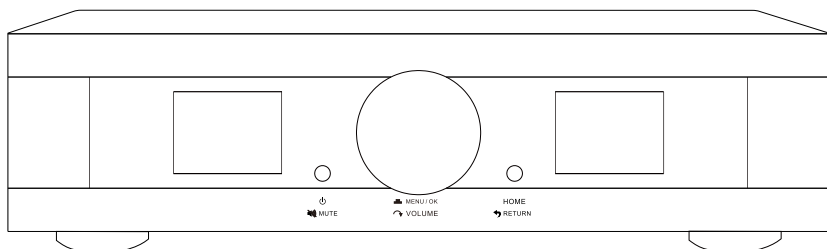


产品说明书



8K全景声影院解码前级

本企业已通过ISO9001质量管理体系认证



产品装箱单

序号	名称	数量
1	说明书	1本
2	电源线	1条
3	HDMI线	1条
4	合格证	1张
5	遥控器	1个
6	7号电池	1对
7	小折叠天线	1件
8	测试话筒	1个
9	RCA线	1条

污染控制标识及其含量说明



此标志表示该产品在使用完结后可再利用。数字表示的是环境保护使用期限，只要遵守与本产品有关的安全和使用上的注意事项，从制造日算起在数字所表示的年限内，产品不会产生环境污染和对人体、财产的影响。

产品中有害物质的名称及含量

部件名称	有毒有害物质或元素					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr ⁶⁺)	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
机体/箱体	○	○	○	○	○	○
安装基板/电器部件	×	○	○	○	○	○
塑胶结构件	○	○	○	○	○	○
金属结构件	○	○	○	×	○	○
线缆类	○	○	○	○	○	○
变压器	○	○	○	○	○	○
扬声器/传声器	×	○	○	×	○	○

备注:本表格依据SJ/T11364的规定编制

“○”在该零部件的所有均质材料中的有害物质的含量不超过在GB26572标准规定的限量要求。

“×”在该零部件中至少一种均质材料中的有害物质的含量超过在GB26572标准规定的限量要求。

注:“×”为在现有技术下还没有可替代的物质。

感谢您使用我司的音响产品，我们将以“高品质、高品位、高技术”的企业理念，以精美的工艺、经典的电路、高新的科技、稳定的质量、一流的品质、一流的服务，为广大消费者提供我们稳定、可靠、耐用、好听的音响科技成果！

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备注：

- 1. 使用前请仔细阅读本说明书；
- 2. 本公司保留说明书解释权；
- 3. 产品外观、颜色、图案以实物为准；
- 4. 阅后请与发票一并妥善保存；
- 5. 如遇产品技术或软件升级，恕不另行通知。

重要防护措施:



警告
机内带电危险请勿开盖



■为了减低触电的危险，请勿拆卸外罩(或后盖)。
■如须维修，应请符合资格的维修人员进行维修。
■为了避免火灾及触电危险，请勿使本机淋湿或受潮。
■安全防护类别：II类

1. 阅读防护措施：在使用设备前，仔细阅读说明
说明书中所有防护与操作的有关警告信息。

2. 遵循使用说明：请遵循说明书中的操作与使
用信息，请勿违反使用说明操作。

3. 请把本产品置于生产厂家推荐的地方：为防
止本产品倾覆，请勿用力推，及移动时突然
停止。

4. 远离水与潮湿：请勿将设备放在靠近水的地
方，如浴缸、脸盆、水池、洗衣机等；也不
能在高温高湿环境下使用，如潮湿的地下室
等。

5. 清洁：请勿用液体清洁剂和雾状清洁剂，请
用干布清洁。清洁设备前请先关闭机器并断
开电源。

6. 电源：电源使用请按照产品使用标示。应合
理布置走线，请勿踩踏、拉扯电源线，以免
造成破坏。
特别留意插头、方便插座和设备连接处的电线。

7. 通风：本产品外壳留有通风孔,用于通风。为
确保产品使用性能可靠，应避免设备过热，
请勿遮挡覆盖设备。不要在类似床、沙发、
地毯等物的表面使用本产品。报纸、桌布、
窗帘和其他物体都可能遮住通风孔。勿将设
备放在可能挡住设备通风孔的窗帘旁边。如
果设备是内置式安装，如书柜或架子上，请
确保有足够的通风。设备两侧、上面、后面
各保持10cm (4") 的距离。设备支架或上方
遮板的后边缘应距离后面板或墙壁10cm(4")，
留出通风散热的空间。

8. 热力 - 使产品远离热源，如散热器、火炉等
能产生热能的物体(包括功率放大器)。
9. 防止异物或液体 - 应防止物体或液体透过洞
孔倒泻入机内，因为可能接触到电流或带电
导致火灾或电击。本产品不能置于雨淋或水
溅之处，也不能将装水容器，如花瓶等置于
其上。

10. 请在未开机前连接好所有输入/输出线再开
机。

11. 雷电：在打雷闪电时，需要保护设备，请
将电源线拔掉，可以有效防止雷电冲击。

12. 保护：①长时间不使用本产品时，请拔下
电源插头。②良好的接地可防止本机受到破
坏。

13. 维修：请勿自行打开设备外壳，以免触电。
在以下情况，需要维修服务，请将本机送我
厂当地 特约维修点进行维修。
a) 异物、液体进入本机内。
b) 设备被淋雨。
c) 机器操作异常。
d) 机器跌落或机体损坏。

14. 电池：注意环保，不要随意丢弃用过的废
旧电池。

15. 关于电网电源的断开装置：本机用电源插
头及器具耦合器作为断开装置。电源插头及
器具耦合器应当保持能方便的操作。

16. 本产品仅适用于海拔2000m以下地区安全
使用。

17. 本产品仅适用于非热带气候条件下安全使
用。



产品简介：

本产品是一款为高端私家影院研发的8K全景声影院解码前级。支持Dolby Atmos全景声音效、DTS:X沉浸式音效，支持8K视频技术，兼容3D、HDR10+、Dolby Vision等视频格式；全中英文叠加式OSD菜单、音视频矩阵编组、ETQ房间智能声学校正等功能，调试简单、操控直观。同时具有U盘、TF卡本地播放，支持多种无损音频格式。APP控制、蓝牙无损传输、红外/蓝牙遥控，让好音乐随时可享，是一款集影院系统、音乐中心于一体的超高清影音中枢。

特点概述：

1. 支持Dolby Atmos、Dolby True-HD及向下兼容所有杜比音频编码文件；
2. 支持DTS:X、DTS-Master及向下兼容所有DTS音频编码文件；
3. 支持HDMI2.1，支持HDCP2.3；
4. 支持8K，YUV 4:4:4，40GHz全带宽高清视频信号；
5. 支持Dolby Vision、HLG、HDR 10、HDR 10+高清视频信号；
6. 全平衡7.1.6/9.1.4杜比全景声信号输出，非平衡7.3.6/9.3.4杜比全景声信号输出；
7. 房间EQ、扬声器距离、延时、声压的自动测试及补偿，一键式操作，全自动校正，同时支持用户手动调节；
8. 内置高品质音乐播放器，支持TF卡及U盘音频文件播放，支持FLAC、APE、WAV、MP3、WMA等多种无损及有损压缩音频格式，支持多层文件夹管理；
9. 内置蓝牙数字音频接收器；
10. 支持手机APP操作，支持红外遥控，蓝牙遥控；
11. 双2.8英寸高清显示屏，各种信息一目了然；
12. 全中英文音视频叠加式OSD屏幕显示菜单；
13. 支持本地音乐信息手机及电视可同步读取显示；
14. 支持从2.0声道到7.3.6/9.3.4声道等多种扬声器配置；
15. 支持HDMI 6进2出（HDMI 1、HDMI 2、HDMI 3支持8K），2组同轴、2组光纤数码音频输入，3组模拟音频输入；
16. 支持5.1声道外部混音输入，可外接混响器；
17. 支持RS232集中控制器；
18. 支持HDMI eARC音频回传，支持CEC控制；
19. 支持高达1000ms时长的唇音同步调节；
20. 每声道多达5~11段参数EQ；
21. 支持音频编组输出；
22. 选用美国ADI新一代双核DSP处理器；
23. 支持按输入源独立设置及保存参数的功能；
24. 输入源独立EQ选择，独立音量调节。

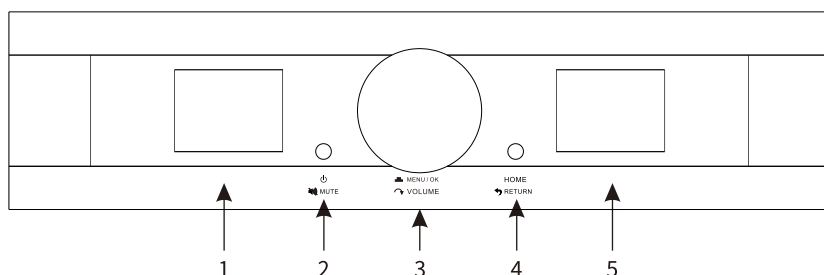


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面板简介：



1. 左显示屏：

显示音源、菜单界面；

2. STANDBY/MUTE (待机键/静音键)：

- (1) 待机状态下短按该键开启机器；
- (2) 在机器开启状态下，长按该键可以让机器进入待机状态；
- (3) 在播放音乐和电影时短按该键执行静音功能；

3. MENU/OK/VOLUME (音量/确认/暂停复合键)：

- (1) 旋转该旋钮可以调节音量大小；
- (2) 播放音乐时按压该键可以静音，其它时候按压该键执行确认功能；

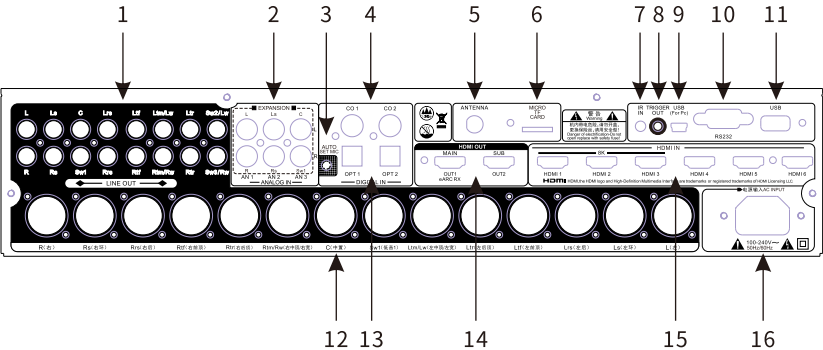
4. HOME/RETURN (菜单/返回) 键：

- (1) 初次按下该键执行菜单功能，会调出菜单页面；
- (2) 在2级、3级等下级菜单时按下该键执行返回功能；
- (3) 在回到最初级菜单时，按下该键会关掉菜单页面；

5. 右显示屏：

显示音量、音源、EQ曲线。

背板简介:



- 1. RCA 7.3.6/9.3.4信号输出。**

2. ANALOG IN (模拟音频L/R输入)：
三组模拟信号输入AN1、2、3以及外部
5.1CH输入 (与AN1、2、3共享)。

3. AUTO SET MIC：
自动测试话筒插口, 连接本机配套声场
测试话筒 (ETM-3), 用于收集自动房间
扫描获得的信息。

4. 同轴数字音频输入：
两组同轴输入 (CO1、CO2)。

5. ANTENNA (蓝牙天线)。

6. MICRO TF CARD (TF卡) 插口。

7. IR IN：
IR IN (IR输入) 插孔可以连接市售的
IR接收器, 方便扩大信号接收范围。

8. TRIGGER OUT触发端口：
5V电平信号输出, 用于触发其它相应
的配套设备开关机。
- 9. USB (FOR Pc) 电脑音频输入端。**

10. RS232接口 (中央控制端口)。

11. U盘接口。

12. 7.1.6/9.1.4全平衡信号输出。

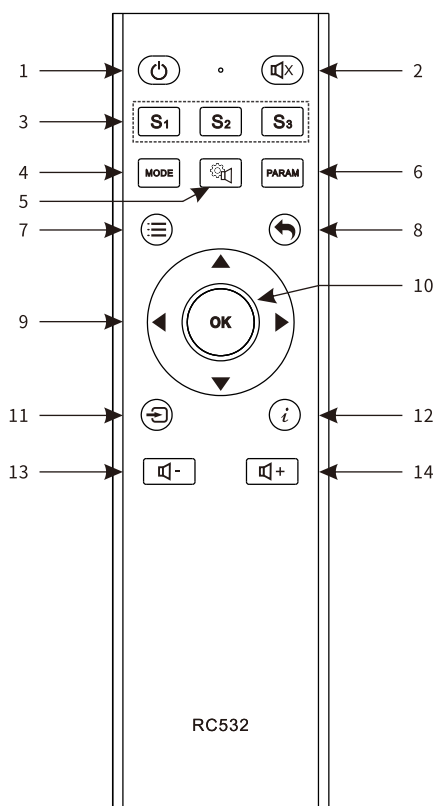
13. 光纤数字音频输入：
两组光纤输入 (OPT1、OPT2)。

14. HDMI OUT (两组HDMI输出)：
用于连接带有HDMI输入接口的显示
设备, 其中HDMI OUT1 (eARC)
带有音频回传功能。

15. HDMI IN (HDMI输入)：
HDMI输入端连接带有HDMI输出
的设备, 例如DVD播放机, 网络播
放机等 (其中HDMI 1、2、3接口支
持8K信号输入)。

**16. 电源输入 (100-240V~50Hz/60Hz)
自适应宽电源：**
用于设备与市电之间的连接。

遥控器简介：



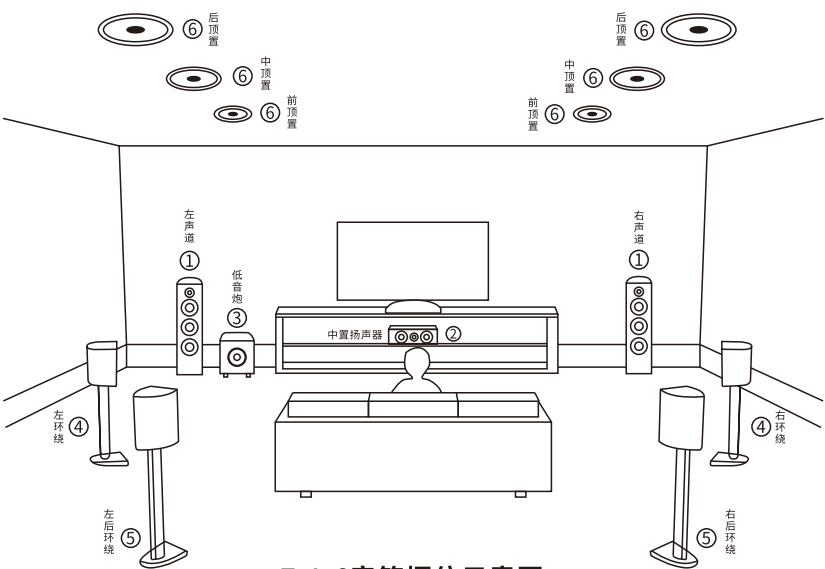
1. "⏻"电源开关键：开机时按此键进入待机状态，待机状态按此键开机；
2. "🔇"静音键；
3. "S1、S2、S3"自定义输入源选择键：可以在输入源设置里选择相应的输入源，然后设置成其中一个键，后面只需按动对应的键就可以选择相应的输入源；
4. "MODE"模式键：按此键可以切换模式；
5. "🔊"扬声器设置键：按此键可以进入扬声器设置菜单页面；
6. "PARAM"参数键：按此键可以进入参数菜单页面，可以单独调节各个声道的音量；
7. "≡"菜单键：按此键可以进入菜单页面；

8. "↶"返回键;
9. "▲、▼、◀、▶"方向键;
10. "OK"确认键;
11. "↵"输入选择键:按此键可以进入输入源设置菜单页面,可以选择不同的输入源;
12. "i"信息键:按此键可以进入设备信息菜单页面,可以查看机器的各种信息;
13. "🔊-"音量调节键:可以减小音量;
14. "🔊+"音量调节键:可以增大音量。

遥控器注意事项:

1. 安装电池时,电池的正负极务必对应,切勿装反方向,以免出现遥控器无效;
2. 新旧电池请勿混用;
3. 长时间不使用本机时,请将电池取出,避免因电池漏液而造成损坏;
4. 当遥控距离缩短或接收不稳定时应更新电池;
5. 请定期用软布清理遥控器上的红外线二极管及主机上的遥控信号接收窗;
6. 遥控器应避免潮湿、闷热、冲击及震动。

连接示意图：



7.1.6 音箱摆位示意图

上图是7.1.6声道音箱的摆放，您可以根据自己的扬声器数目情况参照此图摆放。

1. 前置左右扬声器

可以输出整体音效，这些扬声器在家庭影院所扮演的角色是提供单一的声场定位点。应面对聆听者安放并置于耳际的高度，与电视机等距。扬声器喇叭方向稍微朝向内侧，形成一个三角形，让聆听者位于三角形的顶点处，以获得更好的听音效果。

2. 中置扬声器

该扬声器强化了前置左右扬声器的效果，使得声音的移动更加明显，并提供了完整的声场。在电影中，主要是用来表现人声对话。将中置扬声器放置于显示设备正下或正上方，面向聆听者约位于耳际高度，或是与前置左右扬声器的高度相同。

3. 超重低音扬声器

超重低音扬声器处理声场的低音，从超重低音扬声器所输出的低音音量和音质与您听音室的形状以及您聆听的位置有密切的关系。一般来说，良好的低音效果可以从安装于前方角落，或是安装于墙面宽度的三分之一处的超重低音扬声器当中产生，也可以在房间选择一个效果最令您满意的地方来放置它。

4. 左右环绕扬声器

这些扬声器是用来将声音精确定位,并增加真实的环境空间感。将它们放置于聆听者的两侧,或稍微偏后,根据聆听距离,使其约在耳朵上方60cm至100cm处。最理想的情形是它们与聆听者的距离是相等的。

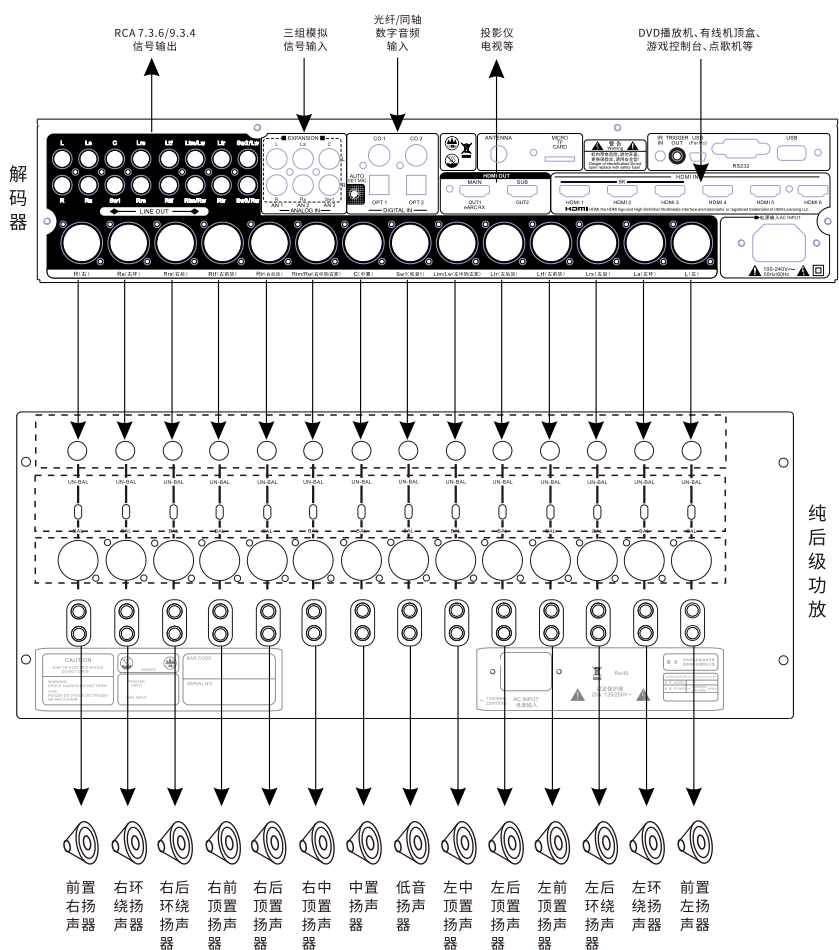
5. 左右后置环绕扬声器

在享受Dolby-HD、DTS-HD等音效时需要使用这些扬声器。他们加强了环绕声音效,为聆听者提供更逼真的现场效果,一般将其置于聆听者后方高于耳朵40~100cm处。

6. 顶置扬声器

增加垂直方向的第三个维度,形成3D立体环绕声,基于声音对象的录音方式,详细记录声音的信息及方位,解码过程实时计算每个声道对应的声音数据,以此还原声音对象的真实空间定位及移动轨迹。

连接示意图：



基础使用设置(系统首次安装调试指南):

1. 屏幕显示设置菜单语言种类选择:中文/English;

主菜单-系统设置-功能选项-Language/语言。

2. 选择对应的信号源输入口:

主菜单-信号源-上下移动光标选择对应的输入口。

3. 低音炮选择:

主菜单-系统设置-扬声器设置-低音炮选择-无/有/双低音/三低音(其中“无”只有左右扬声器频率响应设置为全频时才会出现)。

4. 扬声器布局:

主菜单-系统设置-扬声器设置-扬声器布局;

根据音箱数量和低音炮数量选取扬声器布局类型;

(1) 低音炮选择“无”时: 有3.0/5.0/7.0/5.0.2/5.0.4/7.0.2/7.0.4/7.0.6/9.0.4九种布局类型(其中“无”只有左右扬声器频率响应设置为全频时才会出现);

(2) 低音炮选择“有”时: 有3.1/5.1/7.1/5.1.2/5.1.4/7.1.2/7.1.4/7.1.6/9.1.4九种布局类型;

(3) 低音炮选择“双低音”时: 有3.2/5.2/7.2/5.2.2/5.2.4/7.2.2/7.2.4/7.2.6/9.2.4九种布局类型;

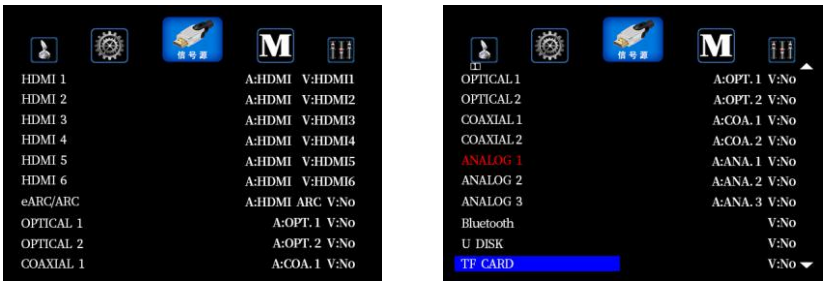
(4) 低音炮选择“三低音”时: 有3.3/5.3/7.3/5.3.2/5.3.4/7.3.2/7.3.4/7.3.6/9.3.4九种布局类型。

5. 扬声器距离(延时):

主菜单-系统设置-扬声器设置-扬声器距离, 这里设置每一个音箱到您坐位的距离。

功能介绍及设置：

1. 信号源：



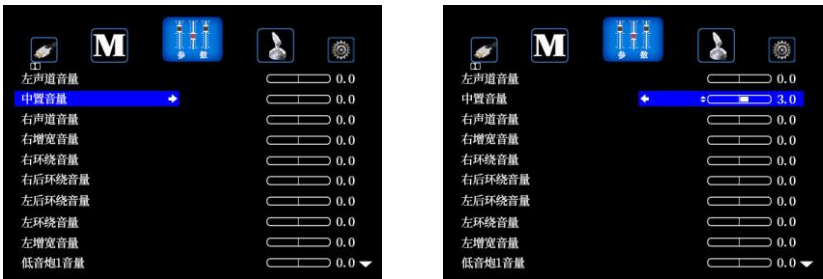
提供所有信号输入的选择功能,并显示音视频源输入口。

2. 模式切换：



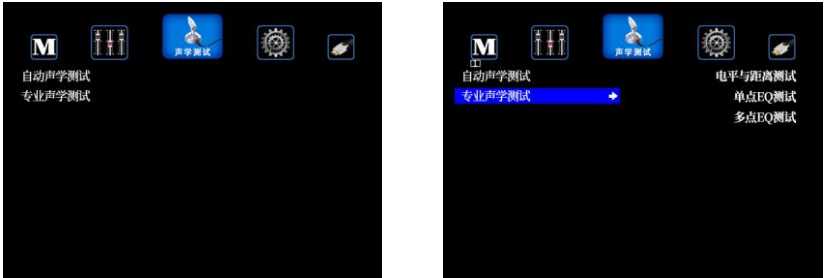
仅对当前输入片源进行对应的DSP音效处理,并非对所有信号源进行设置；
提供:纯音、直通、两声道、多声道、Dolby 音效、DTS 音效六种模式选择。
(选择模式时,如果记忆选择是“关”，那么机器重启后会恢复出厂默认选择模式;如果记忆选择是“开”，那么就会记忆你当前选择的模式,开关机不会改变)

3. 参数：



针对每个声道独立的输出电平增益调节,这里针对不同的扬声器布局,显示不同,扬声器布局中没有的通道,显示为灰色,无法进行调节;
声道音量断电记忆:开/关;
DRC:自动(低音压缩动态)开/关;
音画同步时间:自动/0~1000毫秒。

4. 声学测试：



自动声学测试:该选项会自动测试扬声器EQ、距离、频响;
专业声学测试:该选项可根据个人喜好进行调节,可以进行电平与距离测试、单点EQ测试、多点EQ测试。

5. 系统设置：



提供:输入源设置、音频模式、扬声器设置、EQ设置、功能选项、参数保存与恢复、设备信息等七项设置。

- A. 输入源设置:**有效、遥控按键、视频源、音频源、EQ选择、音量模式、触发输出、出厂设置八项功能可以进行设置(其中Bluetooth可以设置蓝牙名称)。
- (1). 有效:设置每一个音源输入口的开或关状态(若选择关后将显示无效,不能进行其它的设置);
 - (2). 遥控按键:有S1、S2、S3三个按键可以设置,设置后只需用遥控按下该键就可直接跳转到设置的输入通道;

- (3). 视频源:无、HDMI 1、HDMI 2、HDMI 3、HDMI 4、HDMI 5、HDMI 6七个选项 (建议:设置默认选项即可);
- (4). 音频源:同步HDMI、光纤1、光纤2、同轴1、同轴2、模拟1、模拟2、模拟3八个选项 (建议:设置默认选项即可);
- (5). EQ选择:直通模式、影院模式、音乐模式、K歌模式、自动EQ、同步系统六个选项 (建议:设置默认选项即可);
- (6). 音量模式:独立音量、统一音量、附加 $\pm 20\text{dB}$ 三个选项 (建议:设置默认选项即可);
- (7). 触发输出:关/开 (建议:设置默认选项即可);
- (8). 出厂设置:按下后之前所设置的选项都会恢复出厂默认设置 (只有当前输入通道的设置恢复出厂默认设置,其他输入通道设置不变)。

B. 音频模式:可以设置模拟/两声道PCM、多声道PCM、两声道Dolby、多声道Dolby、两声道DTS、多声道DTS等六个模式,每个模式可以设置纯音、直通、两声道、多声道、Dolby音效、DTS音效等六个音效。

C. 扬声器设置:

- (1). 扬声器布局:根据音箱数量和低音炮数量来选择扬声器布局类型;
 - a. 低音炮选择“无”时:有3.0/5.0/7.0/5.0.2/5.0.4/7.0.2/7.0.4/7.0.6/9.0.4九种布局类型 (其中“无”只有左右扬声器频率响应设置为全频时才会出现);
 - b. 低音炮选择“有”时:有3.1/5.1/7.1/5.1.2/5.1.4/7.1.2/7.1.4/7.1.6/9.1.4九种布局类型;
 - c. 低音炮选择“双低音”时:有3.2/5.2/7.2/5.2.2/5.2.4/7.2.2/7.2.4/7.2.6/9.2.4九种布局类型;
 - d. 低音炮选择“三低音”时:有3.3/5.3/7.3/5.3.2/5.3.4/7.3.2/7.3.4/7.3.6/9.3.4九种布局类型。
- (2). 中置扬声器:根据您的实际情况和需要选择“开”或“关”;
- (3). 顶置扬声器类型:根据您的音箱类型选择“吸顶式”或“反射式”;
- (4). 电平测试/补偿:测试每一个声道位置是否正确并对不同声道的音量增益进行调整,以达到声场正确,声音均衡的音效;系统将根据您选择的扬声器布局自动关闭不需要的声道参数调节;
- (5). 扬声器距离:只需输入每只音箱到同一个聆听位置的距离,系统将自动调整音箱延时,以达到更好的听音效果;
- (6). 低音炮选择:无、有、双低音、三低音四种选项,根据您的实际情况选择;
- (7). 频率响应:每一个声道音箱响应的频率范围;
- (8). 滤波器斜率:设置每一个声道高通、低通滤波器交叉点的斜率,以达到最好的声平衡;
- (9). 低音增强开关:低音炮量感在原基础上不足时,打开增强低音,以达到更震撼的音效 (此时要求左右扬声器频率响应设置为全频,否则无法打开低音增强开关)。

D. EQ设置:有影院模式、音乐模式、K歌模式、自动EQ、自动EQ2、直通模式六种不同的模式;其中影院模式、音乐模式、K歌模式分别为不同声道提供不同的参量均衡参数调节:左右声道11段、中置声道11段、环绕声道7段、顶置声道7段、低音炮5段、左右声道分组、环绕声道分组、顶置声道分组、低音炮分组。

E. 功能选项:

提供:Language/语言、通电设置、音量选项、HDMI选项、信息显示设置、无信号待机、触发输出、单位、网络设置、遥控器配对、U盘记录等十一项设置。

(1). Language/语言:中文、English两种语言供用户选择;

(2). 通电设置:

a. 开机:通电时自动开机;

b. 待机:通电时处于待机状态,需要手动开机;

c. 关机前状态:记忆上次断电时的状态,待机状态下断电,通电将处于待机状态;开机状态下断电,通电时将自动开机;

(3). 音量选项:

a. 开机音量:设置每次开机时的音量;

b. 最大音量(**非常重要**):设定最大音量限制,保证在使用过程中不会误操作将音量开至过大从而损坏设备;

c. 音量步进:指遥控器按一次音量加或减时,增加或减少多少音量;

(4). HDMI选项:

a. HDMI输出选择:功放具有两组HDMI输出,可以设置输出1或输出2,也可以设置两个同时输出(当只接入一组输出时,建议选用输出1输出);

b. 同步电视电源:有“开”或“关”两项选择,当选择“开”时可以在打开或关闭电视的时候同步打开或关闭功放,当选择“关”时则需要单独打开或关闭功放;

c. 待机直通:开启待机直通,在设备通电待机状态下,播放设备音视频信号将通过本机直接输出到显示端(电视或投影),关闭时则无此功能;

d. CEC信源自动控制:开启此功能,功放在开机状态下,外接HDMI CEC设备(如DVD)在开机或播放的时候,功放自动切换到对应的HDMI通道,无需用户切换功放信号源,需要确保连接正常(此功能只支持HDMI OUT1输出端口,建议关闭,避免错误操作);

e. CEC控制:开启后,本机遥控器也可以控制外接的HDMI CEC设备;

f. HDMI信号格式:有“自动”、“标准”、“增强”、“增强+”四项选择,增强显示高质量HDMI信号;

自动:适应连接显示设备的分辨率(支持3D、HDR、杜比世界);

标准:支持HDMI 1.4a格式;

增强:支持HDMI 2.1格式;

增强+:既可以适应连接显示设备(支持3D、HDR、杜比世界),又支持HDMI 2.1格式;

(5). 信息显示设置:

a. 显示屏亮度调节:功放主机显示屏亮度调节,1-10可调;

b. 信息窗内容:在大屏幕上显示播放片源信息(不显示、仅音量、所有信息);

c. 信息窗位置:信息内容显示的位置(顶部、底部);

d. 屏幕菜单透明度:OSD菜单的透明度0-7可调;

e. 光标循环:开启后光标选到最后一项时,再按下键就可以直接跳到第一项;

f. 旋钮灯光效果:关、冰川蓝、朋克黄、电光紫、音乐随动五个选项;

(6). 无信号待机:

a. 无作用: 关闭此功能;

b. 5-60分钟可调: 前端信号关闭或无信号输入后5-60分钟的时间关闭功放, 使功放进入待机状态;

(7). 触发输出: 总是关、总是开、跟随信号源;

(8). 单位: 公制/英制 (这里只作用于扬声器距离);

(9). 网络设置: 可以连接WIFI;

(10). 遥控器配对: 本机支持蓝牙遥控器, 需要配对;

(11). U盘记录: 关/开 (默认关闭, 当机器发生故障时插入U盘记录故障信息, U盘可以生成一个文件, 发送给厂家分析情况)。

F. 参数保存与恢复:

(1). 备份参数: 备份现在设置的所有参数;

(2). 加载备份参数: 恢复上次保存的所有参数;

(3). 恢复出厂设置: 把设备恢复为出厂时的状态。

G. 设备信息:

提供: 软件升级、MCU版本、DSP版本、OSD版本、控制板版本、蓝牙名称、WIFI版本、WIFI MAC地址、WIFI Ip地址、电视机连接1、电视机连接2、更多信息等选项。

手机APP：

为了您更好的体验本机我们特别精心研制了与本机配套的手机APP做为无线控制，您可以通过手机完成以上所有功能的切换与操作。如果您是初次使用APP控制本机，需要执行步骤 (1)、(2)、(3)、(4)、(5)，之后只需执行步骤 (5) 就可以了：

- (1). 让本机处于正常工作状态；
- (2). 手机处于可上网的状态后扫描右侧的二维码，扫描下载APP软件并完成安装；



- (3). 功放音频源选择Bluetooth；
- (4). 打开手机蓝牙收索到AVR-BT设备名后点击配对；
- (5). 打开APP软件后找到AVR-BT设备名称并点击连接,手机会自动切换到与本机同步的音频源,之后就可以通过手机APP控制本机了；
- (6)更多APP使用操作详情请参考官方网站,本产品下的服务与支持相关内容。

本产品规格如有变动,恕不另行通知

主要技术指标：

- 1.信噪比： $\geq 110\text{dB}$ (A计权, 1KHz/1Vrms, ANALOG IN, 纯音模式)
- 2.失真度： $\text{THD} \leq 0.003\%$ (A计权, 纯音模式, 1KHz/1Vrms, ANALOG IN)
- 3.频率响应：10Hz-65KHz (+1/-3dB, ANALOG IN, 纯音模式)
- 4.输出电平：4Vrms $\pm$ 1dB (THD=1%, ANALOG IN, 模拟纯音)
- 5.分离度： $\geq 90\text{dB}$ (ANALOG IN, 模拟纯音)
- 6.最大功耗：30W
- 7.净重：4.3Kgs
- 8.毛重：6.3Kgs
- 9.机箱尺寸：431 X 300 X 90mm (不含机器机脚、旋钮/按钮、背板接线柱)
- 10.整机外形尺寸：432 X 319 X 104mm (含机器机脚、旋钮/按钮、背板接线柱)
- 11.包装尺寸：560X392X165mm
- 12.执行标准：GB/T9254.1, GB4943.1, GB17625.1

安全防护类别: II 类设备

1. 使用前请仔细阅读使用说明书和本安全注意事项。
2. 产品应安装在便于散热的通风干燥处, 避免水气和油烟。
3. 本机安全防护类为II类设备, 安装时电源插头可接入电压为 100-240V~50Hz/60Hz的电网中。
4. 为防止触电, 用户切勿自行拆解机器。
5. 不宜频繁开关机, 关机后再开机应等待数分钟。
6. 本机发生故障时, 本厂实行“三包”, 用户应送指定的商家或维修部维修或送本厂修理, 用户切勿自行打开后盖检查或修理以免产生意外。
7. 本机所用的插头、电源线、保险管、电源开关、电源变压器均为安全件, 各维修部更换安全件时, 应用本厂提供图纸资料上所规定的型号、规格和定点厂家的元器件更换。

本产品规格若有变动, 恕不另行通知

本机故障的解决方法：

在与维修人员联系之前, 请先按照以下表格检查问题的原因:

症 状	解 决 方 法
A.接通交流电源后 显示屏不亮	1. 立即关机。 2. 检查电源插座是否有电。 3. “1、2”条正常之后, 再次开机。故障依然存在, 送我厂当地特约维修点进行维修。
B.遥控器不灵或 失效	1. 检查本机红外接收窗口是否有遮挡物。 2. 检查遥控器电池电压是否过低。
C.本机工作正常, 显 示屏正常显示, 有 信号输入, 但无输 出	1. 检查连接线是否正确、完好。 2. 检查功放是否正常。 3. 检查音量是否最小。 4. 若非以上原因, 将本机送我厂当地特约维修点进行维修。
D.不能使用ARC/ eARC	1. 电视机是否支持ARC/eARC。 2. 是否连接到电视机带ARC/eARC的HDMI口。 3. 电视机是否打开CEC功能。

产 品 保 修 卡

姓名		电话		微信	
住址					
购买机型		购机日期		凭据号	
购机地点			机号		
维 修 记 录	对产品的建议和意见：				
	报修时间				
	故障现象				
	检修结果				
维修员					

温馨提示

尊敬的用户：

感谢您选购我司产品，我们将严格按照国家“新三包”规定，为您提供优质的服务，解决您的后顾之忧。

保修注意事项：

- 1、妥善保存保修卡、购机凭证及机器条码，产品保修时一并出示；
- 2、正常情况下，凭保修卡、购机凭证或机器条码，公司提供一年免费保修服务；
- 3、产品送修请详细填写故障现象及联系方式；
- 4、产品售后咨询微信：TYYX-01，或拨打020-34789761。

退换货申明：

1、按国家规定自购买之日起，7天内因质量问题可选择在原购买点退、换货；

- 2、退、换产品务必保证内外包装完整、配件齐全；
- 3、退、换产品务必保证外观无划痕、磕伤及人为损坏痕迹；
- 4、退、换产品不影响二次销售。

以下情况不在免费保修范围内：

- 1、擅自涂改、撕毁机器的条码及串号；
- 2、用户自行拆卸、改制、修理等引起的产品损坏；
- 3、非正常使用或接入非标准电源、信号等造成产品损坏；
- 4、不可抗因素导致产品发生故障的。



Problem Shooting

If a problem should arise, first check the following:

- Are the connections correct?
- Is the unit being operated as described in the user manual?
- Are the other devices operating properly?

If this unit does not operate properly, check the corresponding symptoms in this section. If the symptoms do not match, disconnect the power immediately and contact the dealer or store where you purchased this unit.

Problem	Solution			
Display screen does not bright with AC power.	1 Disconnect the unit immediately;	2 Check if power socket has electricity;	3 After above two steps, turn it on again.	
Remote control is insensitive or does not work.	1 Check if IR remote control sensor is blocked;	2 Change weak batteries.		
The unit, display screen & inputs work normally, but there is no output.	1 Check if all cables are connected well;	2 Check if amplifier works normally;	3 Check if volume is too low;	
ARC or eARC doesn't work.	1 Make sure the TV supports ARC or eARC.	2 Make sure it's connected to HDMI ARC/eARC ports properly.	3 Make sure the TV turns on the CEC function.	

Specification

S/N: $\geq 110\text{dB}$ (A-weighted, 1kHz/1Vrms, analog in, pure mode)

Distortion: THD $\leq 0.004\%$ (A-weighted, pure mode, 1kHz, analog in)

Frequency response: 10Hz-65kHz (+1/-3dB, analog in, pure mode)

Output level: 4Vrms $\pm 1\text{dB}$ (THD=1%, analog in, analog pure)

Separation: $\geq 90\text{dB}$ (analog in, analog pure)

Max power consumption: 30W

Net weight: 4.3kg

Gross weight: 6.3kg

Unit dimensions: 432 $\times$ 319 $\times$ 104mm (W $\times$ D $\times$ H)

Packing dimensions: 560 $\times$ 392 $\times$ 165mm (W $\times$ D $\times$ H)

Execution standards: GB/T9254.1, GB4943.1, GB17625.1

Equipment Safety Standard: Class II

1. Please read the manual and safety precautions carefully before using.

2. The product should be mounted somewhere ventilated and dry for the

convenience of heat dissipation to avoid moisture and lampblack.

3. The safety standard of the machine is II; upon installation, the power plug

should be connected to 100-240V~50Hz/60Hz grid.

4. Do not remove the cover during using to prevent electrocution.

5. Do not frequently turn it on or off. Wait a few minutes before turning it on again.

6. When the equipment fails, contact with the product managers where you buy this

machine for internal maintenance. To avoid accident, do not open the rear cover for

inspection or repair.

7. The plugs, power lines, fuses, power switch, and transformer used on the

equipment are all safety parts. Upon change of safety parts, the maintenance

department should replace them in accordance with the model and specification

specified by our company.

Mobile Phone APP

For better user experience, Tonewinner develop its own App control to match its products, user can finish all below operations and switches on phone. If you are the first time to use Tonewinner App, follow below step1, step2, step3, step4, step5. if you are not the first time use Tonewinner App, follow step5.



(1) Keep your phone on normal working status.

(2) Keep your phone with internet access, scan the QR cord here, download the App and install it.

(3) Amplifier source choose Bluetooth.

(4) Turn on the Bluetooth on phone and search for AVR-BT, pair it when it appear.

(5) Turn on the Tonewinner App, and find AVR-BT to pair it. Then the phone will switch to same source as amplifier automatically, and you can control the amplifier on phone.

(6) For more App control, please check product details on Tonwinner's website

www.tonewinner.com

Product specifications are subject to change without prior notice.

- (5) Information display:
- a. Display DIM: display window dim level, can adjust from 1 to 10 level.
 - b. OSD information: to display content that are playing on the screen, (Off, only display volume, all display.)
 - c. OSD info position: can be on top or on bottom.
 - d. OSD transparency: can adjust from 0 to 7 level.
 - e. Cursor loop: turn on this function, when you select the last item, press again it will go to the first item.
 - f. Lighting effect: 5 choices of OFF, Blue, Yellow, Purple and Follow music.
 - (6) No signal standby:
 - a. Turn off, this function does not work.
 - b. 5 to 60 minutes adjustable: when there is no input signal, or signal is off, to set the waiting time before the unit go into standby.
 - (7) Trigger output: always ON, always OFF, follow by signal.
 - (8) Unit: metric unit/English unit (For speaker distance only).
 - (9) Network setting: can connect WIFI.
 - (10) Remote pair: support bluetooth remote, need to pair with the unit.
 - (11) U Driver Log: ON/OFF (default OFF. When unit is fail, plug in U disk to record the failure information. There is a file create in the U disk, send it to factory for analysis).
- F. save and recall:**
- (1) Save to back up: back up all the current parameter.
 - (2) Load from backup: recall the parameter saved last time.
 - (3) Load from default: reset the parameter to factory default.
- G. About:**
- Provide: firmware upgrade, MCU version, DSP version, OSD version, control board version, Bluetooth name, WIFI version, WIFI MAC address, WIFI IP address, TV connection1, TV connection2, More etc.

D. EQ Settings: There are 6 different modes of Cinema, Music, Karaoke, auto EQ, auto EQ2 and Direct. And Cinema mode, Music mode and Karaoke modes support EQ parameter adjustment for each channel. 11 bands for L, R and center channels, 7 bands for surround, top height channels, 5 bands for subwoofer. Group for LR channels, group for surround channels, group for top height channel and group for subwoofer.

E. Option: Provide 11 different settings of Language, Startup settings, Volume options, HDMI option, Information display, No signal standby, Trigger out, Unit, Network Settings, Remote pair and U Driver Log.

(1) Language: Chinese/English.

(2) Startup settings:

a. Turn on: power up to turn on automatically.

b. Standby: if unit is in standby when power on, then you need to turn it on manually.

c. Status before turn off: remember the status of last turn off. If unit is turn off when it is standby status, it will be in standby when reboot. If unit is turn off when it is in ON status, it will turn on automatically when reboot.

(3) Volume options:

a. Turn on volume: to set turn on volume.

b. Max volume (IMPORANT): Set the max volume limit, this can avoid turning the volume into max by misoperation during use.

c. Volume step: means how much volume will be changed when you press remote volume + or -. (4) HDMI option:

a. HDMI output: the amplifier has two HDMI outputs, you can set HDMI 1, HDMI 2, or HDMI 1 & 2 output synchronously (When only connect one HDMI out, suggest to use HDMI 1.) b. Synchronize TV power: ON and OFF switch are available. For ON status, the amplifier can be turned on and off when TV is turned on and off. For OFF status, you need to turn on amplifier manually.

c. Standby pass through: turn on this function, when unit is in standby status, audio and video signal from player equipment will output to display equipment directly (such as TV or projector). If set it OFF, this function will not be available.

d. CEC signal sources auto control: turn on this function, when unit is ON and when the connected HDMI CEC equipment (such as DVD) is turned on or is playing, the unit will switch to its HDMI channel automatically, no need to switch signal source manually again, but need to make sure it is connected correctly. (This function only support HDMI1 output port, suggest to set it OFF to avoid any mis-operation.

e. CEC control: Turn on this function, the remote of this unit can control the connected HDMI CEC equipment.

f. HDMI signal formats: There are 4 options available: Auto, Standard, Enhance and Enhance+. Enhance display high quality HDMI signal.

● Auto: Auto adjustment to adapt connected equipment's resolution. (Support 3D, HDR and Dolby Vision).

● Standard: support HDMI 1.4a format.

● Enhance: support HDMI 2.1 format.

● Enhance+: support not only auto adjustment to adapt connected equipment's resolution (Support 3D, HDR and Dolby Vision), but also support HDMI 2.1 format.

(3) Video source: No Video, HDM1, HDM11, HDM12, HDM13, HDM14, HDM15, HDM16.

(suggest the default selection)

(4) Audio source: Sync HDMI, Optical1, Optical2, Coaxial1, Coaxial2, Analog1, Analog2,

Analog3.(suggest the default selection)

(5) Volume mode: Independent,Unified, Additional ± 20 dB.(suggest the default selection)

(6) EQ selections: Direct, Cinema, Music, Karaoke, Auto EQ and System synchronization.

(7) Trigger out: ON/OFF (suggest to use the default mode)

(8) Default: press to default all the parameters of the current working channel.(only current

working channel change, other channel will not change)

B. Audio modes: can set 6 different modes of Analog/PCM 2CH, Multi CH PCM, Dolby 2CH, Dolby Multi CH, DTS 2CH, DTS Multi CH. And each model can set 6 different effects of Pure, Direct, Stereo, Multi-channel, Dolby upmix and DTS Neural: X.

C. Speaker setup:

(1) Speaker layout: Choose speaker configuration according to your speaker and subwoofer quantity.

a. subwoofer "No sub", you can choose 9 different configurations of 3.0/5.0/7.0/5.0/2.5/0.4/7.0/2.0/7.0/6/9.0/4.(Note: "none" mode only available when left and right speaker

frequency response is set as full frequency)

b. subwoofer "one sub", you can choose 9 different configurations of 3.1/5.1/7.1/5.1/2/5.1/4/7.1/2/7.1/4/7.1/6/9.1/4.

c. subwoofer "two subs", you can choose 9 different configurations of 3.2/5.2/7.2/5.2/2/5.2/4/7.2/2/7.2/4/7.2/6/9.2/4.

d. subwoofer "three subs", you can choose 9 different configurations of 3.3/5.3/7.3/5.3/2/5.3/4/7.3/4/7.3/6/9.3/4.

(2) Center speaker: Choose ON or OFF base on your needs.

(3) Top speaker type: Choose suitable top high speaker and reflective speaker bases on your speaker types.

(4) Level test/adjust: Test the position of each speaker to see if it is correct, and adjust volume gain of different channels to create correct sound field, balance sound effects. System

will close the unnecessary channel adjustments base on your speaker configuration.

(5) Speaker distance (Latency): In order to achieve the best sound effects, you only need to input the distances between each speaker to the listener's position, system will auto

adjust speaker latency.

(6) Subwoofer: there are four modes of subwoofer: No sub/ one sub /two subs /three subs,

choose the one base on your needs.

(7) Speaker crossover: It's for frequency range of each speaker.

(8) Filter slope: Set the best filter crossing point slope of high pass and low pass, to create best sound effect.

(9) Subwoofer Enhance: If bass is not enough, turn on Subwoofer Enhance to create more impressive bass sound effects. (note: L and R need to set into full frequency, or Enhance key can not turn on)

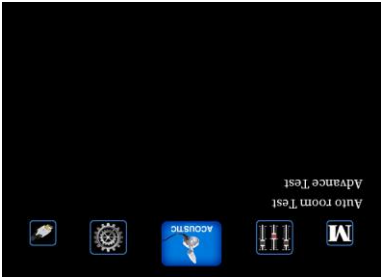
Independent output level/gain adjustment for each channel. The display differs based on different speaker configurations. Non-existent channels will be in grey color and can't be adjusted.

Remember channel volume : ON/OFF.

DRC Dynamic Range Control: ON/OFF/Auto.

Lipsync: Auto/0-1000ms.

4. Acoustic test



Auto Room Test: to auto-test the speaker EQ, distance and frequency response.
 Advance Test: to set the speaker EQ, distance and frequency response at your will.

5. System setup



It has 7 settings of input source setup, audio mode, speaker setup, manual EQ , option, save and recall, and about.

A. Source setup: can set for 8 functions of enable, remote keys, video source, audio source, EQ selection, volume mode, trigger out, default.(Note, Bluetooth can set Bluetooth name).

(1) Enable: to set ON/OFF for each audio input port. If this is set as OFF, then display will be invalid and can not do any setting.

(2) Remote keys: can set for key S1, S2, S3. After set up S1, S2, S3, you can switch to the set channel directly by remote.

Function and Settings

1. Signal source



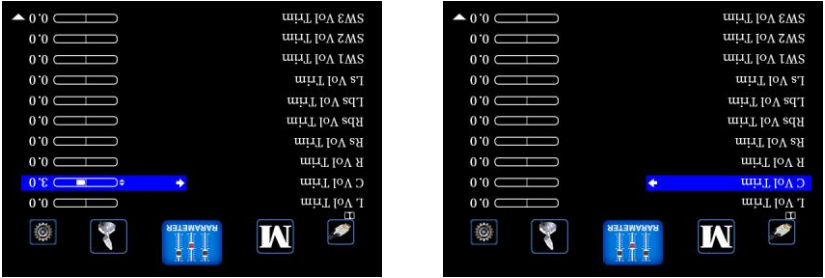
It offers all the signal inputs for selection, and display the input ports for both video and audio.

2. Mode selection



It only applies relative DSP processing to the current input source instead of all input signal sources. It offers 6 modes for option: Pure, Direct, Stereo, Multi CH, Dolby Uplmix and DTS Neural:X. (when you choose mode and the memory option is "OFF", then unit will be defaulted when reboot. When the memory option is "ON", it will remember the mode you choose and will not change when reboot.)

3. Parameters



Basic usages setup (First time installation and setup instruction)

1. OSD setup menu language selections: English/Chinese.
Main menu – Setup – Option – Language/语言.

2. Select relative signal source input:
Main menu – Source – Move up and down the cursor to select the input.

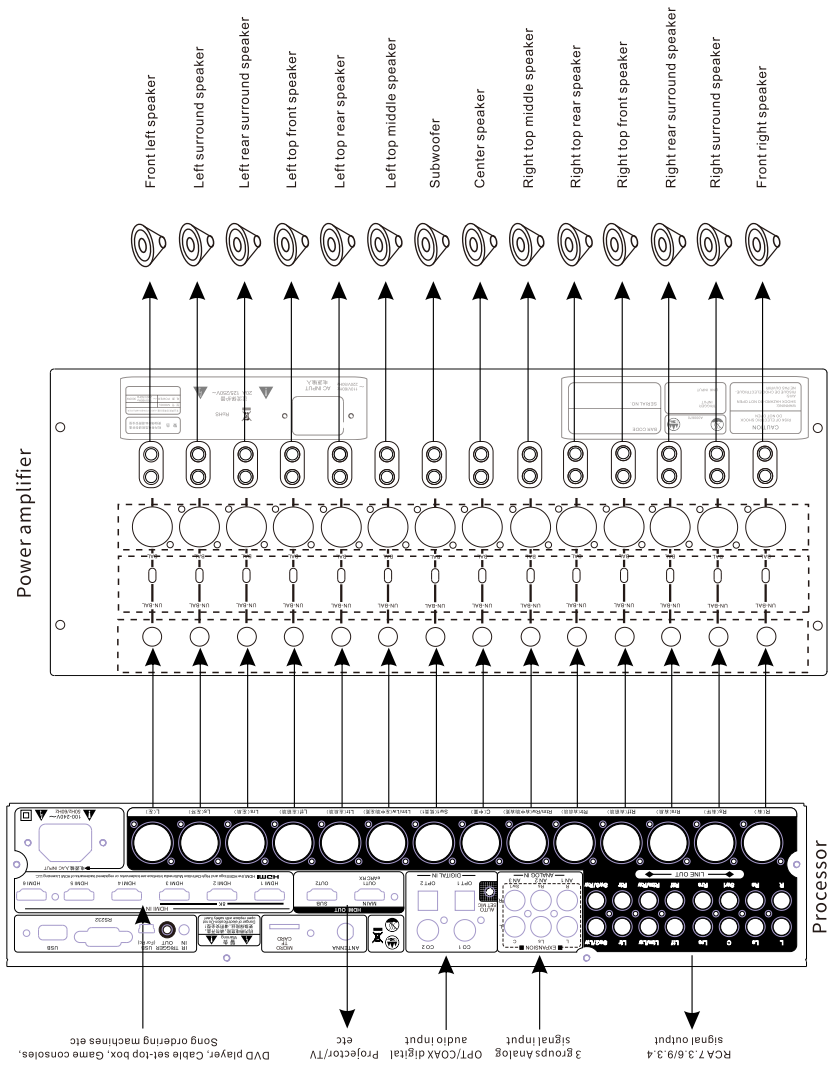
3. Subwoofer selection:
Main menu – Setup – Subwoofer – No/One/Two/Three.
(Note: "No" mode only available when left and right speaker frequency response is set as full frequency).

4. Speaker configurations:
Main menu – Setup – Speaker setup – Speaker layout.
Choose speaker layout according to your speaker quantity.
(1) subwoofer "No", you can choose 9 different configurations of 3.0/5.0/7.0/5.0/2/5.0./4/7.0./2/7.0./4/7.0./6/9.0./4. (Note: "No" mode only available when left and right speaker frequency response is set as full frequency).
(2) subwoofer "One", you can choose 9 different configurations of 3.1/5.1/7.1/5.1.2/5.1.4/7.1.2/7.1.4/7.1.6/9.1.4.
(3) subwoofer "Two", you can choose 9 different configurations of 3.2/5.2/7.2/5.2.2/5.2.4/7.2.2/7.2.4/7.2.6/9.2.4.
(4) subwoofer "Three", you can choose 9 different configurations of 3.3/5.3/7.3/5.3.2/5.3.4/7.3.2/7.3.4/7.3.6/9.3.4.

5. Speaker distance (latency):

Main menu – Setup – Speaker setup – Speaker distance.
You can set the distance from every speaker to your seat.

Connection Diagram



④ Left and right surround speakers

These speakers are used for precise positioning of sounds and to bring spatial sound effect from all directions. Place these speakers on the sides or slightly backward sides of the user at the height of about 60cm to 100cm above user's ears. The same distance between the speaker and the user brings ideal sound quality.

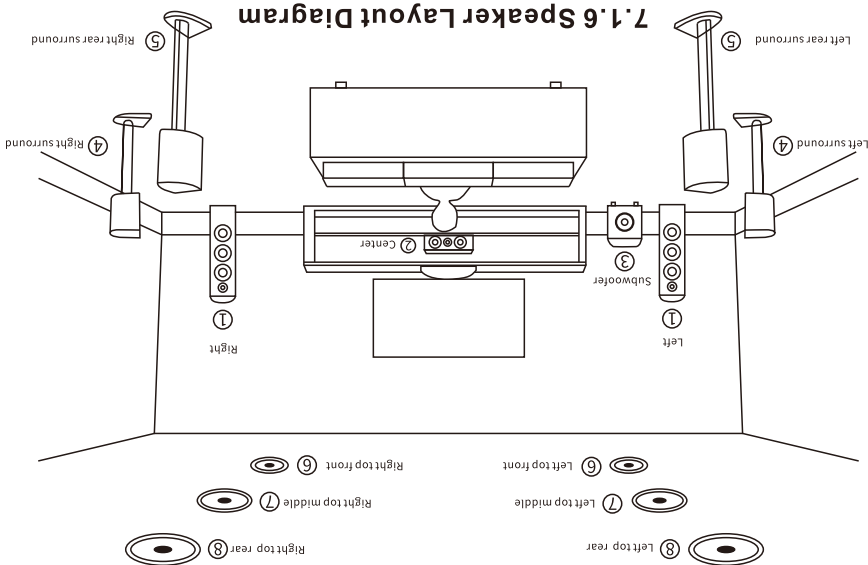
⑤ Left and right rear surround speakers

They enhance the surround sound and are usually used for Dolby TrueHD and DTS HD sound effects. Place these speakers on the back sides of the user at the height of about 60cm to 100cm above ears.

⑥ Top channel speakers (Ltf, Rtf, Ltm, Rtm, Ltr, Rtr)

Add the height channel to create 3D sound effect which transports you with breakthrough, spatial & realistic audio experience and brings you a deeper connection to music and images.

Connecting Instruction



You can use the 7.1.6 system diagram above as a reference to arrange your speakers.

① Left and right speakers

Front left and right speakers can create the overall soundstage. Place the speakers in front of the user at ear-listening level. Toe-in the speakers inwards and create an equilateral triangle between the user and the two speakers so that they meet to a point that goes behind the user. Then adjust the angle to find the position where the audio has better soundstage and imaging.

② Center speaker

The center speaker produces most of the dialogue and vocals and reinforces the sound effect of front left and right speakers. Place the center speaker under or above the display device and make sure it faces to the user at ear-listening level or at the same level as the front left and right speakers.

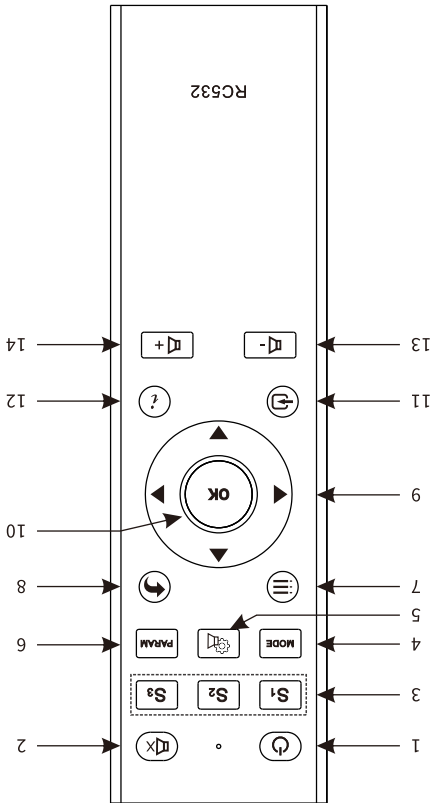
③ Subwoofer

The subwoofer adds emotion and impact, and handles the bass in the sound field. The sound quality and volume of the subwoofer are closely related to the shape of your audio room and the listening position. In general, place the subwoofer in the front corner, or the one-third width of the room, or anywhere you feel the best sound.

Notices for remote control

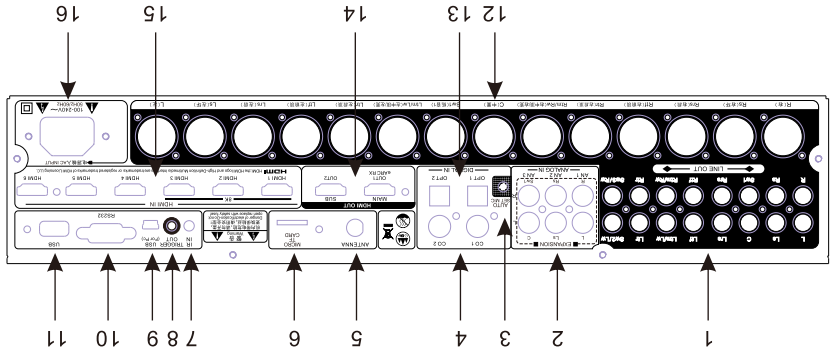
8. "↵"Return key.
9. "▲、▼、▶、◀"Navigation keys.
10. "OK" confirmation key.
11. "↶"Input selection key: Press it to input menu setting interface, can select different input source.
12. "i"Information key: Press it to product information interface, can check details of the product.
13. "⏮"Volume adjusting key: Press to decrease volume.
14. "⏭"Volume adjusting key: Press to increase volume.
1. Please make sure to put the positive and negative ends of batteries correctly.
2. Please don't mix-use old & new batteries.
3. Please take out all batteries if the remote is not in use for a long time to avoid damage caused by battery leakage.
4. Please replace the batteries when the effective range of the remote is reducing or the signal transmission is not stable.
5. Please use soft cloth to regularly clear the IR diode on the remote and the remote control sensor on the front panel.
6. Please don't put the remote in a moist or sultry place and avoid hitting and shaking.

Remote Control



1. "P" **Power key**: When unit is ON, press it to STANDBY. When unit is STANDBY, press it to ON.
2. "M" **Mute key**.
3. "S1, S2, S3" **Self-define input source keys**: Choose one input source in the input source setting, then set it as one of these keys, after that, you can choose the corresponding source with the set key.
4. "MODE" **MODE key**: Press it to switch modes.
5. "Speaker setting key" **Speaker setting key**: Press it to speaker setting menu interface.
6. "PARAM" **Parameter key**: Press it to parameter setting interface, can adjust volume of each channel separately.
7. "Menu Key": Press it to menu interface.

Rear Panel



1. RCA7,3,6/9,3,4 signal output.

2. ANALOG IN (L/R) :

3 groups of analog signal input AN1,2,3 and external 5.1CH input(share with AN1,2,3)

AN1,2,3)

3. AUTO SET MIC:

Automatic test microphone jack, connect to test microphone (ETM-3), to collect automatic rooms information obtained by scanning.

4. COAXIAL DIGITAL AUDIO INPUT:

2 groups of coaxial input CO1, CO2.

5. ANTENNA.

6. MICRO TF CARD SLOT.

7. IR IN:

IR IN jack, can connect any on sales IR receiver to expand signal receiving range.

8. TRIGGER OUT:

5V level signal output, to trigger other equipment to turn on or off.

16. Power supply:

100-240~50Hz/60Hz adaptive wide voltage.

15. HDMI IN:

This is to connect equipment with HDMI output, such as DVD, network player etc. (Note: HDMI1,2,3 support 8K)

14. HDMI OUT:

2 groups of HDMI output, to connect HDMI 1(eARC) has audio playback function.

13. OPTICAL DIGITAL audio input:

2 groups of coaxial input OPT1, OPT2.

12. 7,1,6/9,1,4 full balance signal output.

11. U disk.

10. RS232 control.

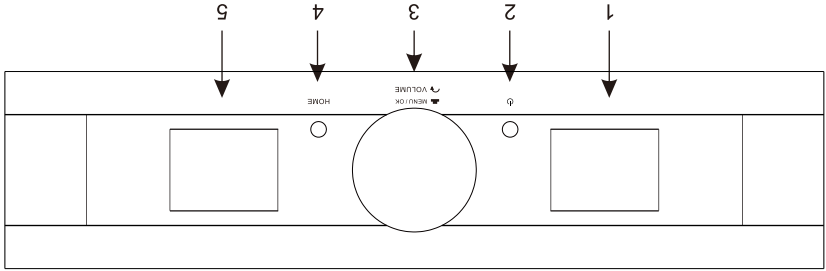
9. USB for computer.

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Front Panel



1. Left display screen:

Display source, menu interface.

2. Standby/Mute:

- (1) Standby status, short press to turn on.
- (2) On status, long press go to standby.
- (3) Short press to Mute when playing music or movie.

3. Menu/OK/Volume key:

- (1) Rotate to adjust volume.
- (2) Press to mute when playing music, press to confirm in other operations.

4. HOME/RETURN:

- (1) Press the first time for Menu, will display menu interface.
- (2) Press for Return if under the 2nd or 3rd menu layer.
- (3) Press to close menu interface when you go back to the main menu.

5. Right display screen:

Display volume, source and EQ curve.

Product Introduction

AT-500 is a 8K immersive audio theater decoding preamplifier which is developed for high-end private cinemas. It supports Dolby Atmos immersive audio effects and DTS:X immersive sound, along with 8K video technology, and it is compatible with video formats such as 3D, HDR10+, and Dolby Vision. It features a Chinese/English overlay OSD menu, audio and video matrix grouping, ETRQ room intelligent acoustic correction, and other functions, making it easy to set up and friendly operate. Additionally, it supports local playback via USB drives and TF cards, and is compatible with various lossless audio formats. With App control, Bluetooth lossless transmission, and infrared/Bluetooth remote control, it allows you to enjoy great music anytime. This product is an ultra-high-definition audio-visual hub that integrates both a cinema system and a music center.

The wireless working frequency range and power of the product's wireless operation can refer to 2400~2483.5MHz ≤ 20dBm.

Main Features

1. Support Dolby Atmos, Dolby True HD and all backward Dolby audio formats.
2. Support DTS:X, DTS-Master and all backward DTS audio formats.
3. Support HDMI2.1, HDCP2.3.
4. Support 8K, YUV4:4:4, 40Ghz bandwidth HD video signal.
5. Support Dolby Vision, HLG, HDR10, HDR10+ video signal.
6. Full balance 7.1, 6/9, 1.4 and unbalance output 7.3, 6/9, 3.4 Dolby Atmos signal output.
7. One-button simple operation for EQ room calibration and compensations of speaker distance, delay and sound pressure, automatic calibration and supports user manual adjustment.
8. Built-in music playing device; support multi-level folder arrangement of music files from TF card and USB disk; support lossless and compressed audio formats including FLAC, APE, WAV, MP3, etc.
9. Built-in digital Bluetooth audio receiver.
10. Support App control, infrared remote and Bluetooth remote control.
11. Dual 2.8" display screens, all kinds of information is at a glance.
12. Chinese/English overlay OSD menu.
13. Synchrono-reading and display of music lists on mobile phone and TV.
14. Support speaker configurations from 2.0 to 7.3, 6/9, 3.4.
15. HDMI 6 in 2 out (HDMI1, HDMI2, HDMI3 support 8K), 2 ways of coaxial, 2 ways of optical and 3 ways of analog inputs.
16. Support 5.1 channel external mixing input, can connect external reverberator.
17. Support RS232 protocol.
18. Support HDMIARC and CEC.
19. Maximum 1000ms lip-sync adjustment.
20. 5 to 11 band parameters EQ for each channel.
21. Support audio-video matrix subgroup output.
22. New dual-core DSP chip from ADI company.
23. Independent settings and parameter storage for each input channel.
24. Independent EQ selection and volume control for each input channel.

FCC STATEMENT

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.
2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B

digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio

communications. However, there is no guarantee that interference will not occur in a

particular installation. If this equipment does cause harmful interference to radio or television

reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help.

Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

13. Maintenance: do not open the cabinet without professional instruction to avoid electric shock. Contact with the product managers where you buy this machine in the following cases:

- (a) Unknown parts or liquid enter the machine.
- (b) The machine is soaked.
- (c) The machine works abnormally.
- (d) Machine falling or damage.

14. Battery: for environment protection, please dispose batteries in appropriate ways.

15. Disconnection device of main power supply: this machine use power plug and coupler as the disconnecting devices. Power plug and coupler should be easily operated.

16. This product is only suitable for safe use in altitude below 2000m.



17. This product is not suitable to be used in tropical climates.



Important Protective Measures for Attention



WARNING

ELECTRIC DANGER DO NOT OPEN



To reduce risk of electric shock, do not remove the outer cover (or rear panel).
For maintenance, it should be carried out by qualified maintenance people.
To avoid fire and electric shock hazards, do not get the unit wet or damp.

Equipment safety standard : Class II

1. Read the protective measures: read all warning messages about protection and operation in the instructions carefully before using the equipment.

2. Follow instructions: please follow the instructions and do not violate the instructions.

3. Place the product on where manufacturer recommends: to avoid overturning, do not push too hard or suddenly stop when moving.

4. Keep away from water and moisture: do not place equipment near water such as bathtub, basin, sink, washing machine, etc. Do not use equipment at high temperatures or high humidity environment, such as a damp basement.

5. Cleaning: do not use liquid or mist cleaners. Please use dry cloth to clean. Turn off the machine and power off before cleaning the equipment.

6. Power supply: use the power supply according to marks and tags. Connect and place the wires properly. Do not step on wires to avoid damage. Pay special attention to wires to plugs, receptacles and connecting ports.

7. Ventilation: the cabinet of equipment is designed with venting holes. To ensure reliable performance, please avoid overheating and do not cover the equipment. Do not use the equipment on beds, sofas, carpets etc.

11. Thunder and lightning: unplug the power cable in thunder and lightning weather because it can effectively prevent lightning impulses to protect the equipment.
 12. Protections: unplug the machine when you do not use it for long period. Good grounding can prevent the machine from being damaged.
 10. Please connect well all input/output wires before switching on.
 11. Thunder and lightning: unplug the power cable in thunder and lightning weather because it can effectively prevent lightning impulses to protect the equipment.
 12. Protections: unplug the machine when you do not use it for long period. Good grounding can prevent the machine from being damaged.
8. Keep away from heat: do not put that machine near heat sources, such as radiators, stoves and other objects that generate heat (including power amplifiers).
9. Prevent unknown objects or liquids - objects or liquids should be prevented from falling through the holes into the equipment, because it might contact with current or live parts that might cause fire or electric shock. Do not place the equipment in rain or water splashing place. Do not put water containers such as vases on top of it.

Thank you for using our audio products. With the philosophy of “high technology, high quality and high taste”, we make products with durable materials, exquisite technique, rigorous circuit & advanced technology and offer professional service!

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Notice

- 1. Read the user manual carefully before you use the product.
- 2. Design, color and images will be dependent on the actual product.
- 3. The product or software might upgrade slightly without further notice.

Packing List		
NO.	Item	Quantity
1	User manual	1 pcs
2	Power cord	1 pcs
3	HDMI cable	1 pcs
4	Certificate of qualification	1 pcs
5	Remote	1 pcs
6	Antenna cable	1 pcs
7	Calibrate mic	1 pcs
8	RCA cable	1 pcs

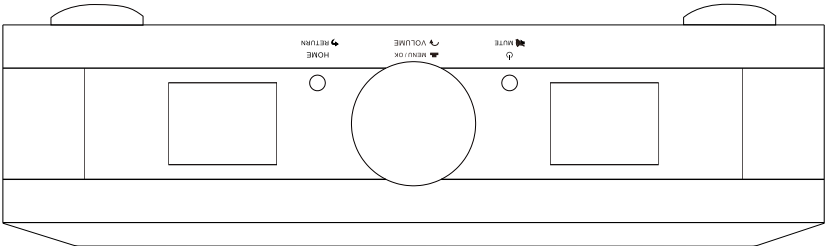


The symbol indicates that the product can be reused. The figure indicates the term of service of environmental protection. The product will not cause environmental pollution or affect human body and property within the term of service expressed by the figure since the date of manufacture as long as the safety and operating precautions on the product are obeyed.

Names and Contents of Hazardous Substances in the Product

Harmful Substance or Element						Name of Parts
Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (Cr) 6+	Polybrominated (PBB)	Biphenyls/polyphenyls (PBDE)	
○	○	○	○	○	○	Body/Box
×	○	○	○	○	○	Equipped Baseplate/Electrical Part
○	○	○	○	○	○	Plastic Structural Member
○	○	○	○	×	○	Metallic Structural Member
○	○	○	○	○	○	Cable
○	○	○	○	○	○	Transformer
×	○	○	○	×	○	Loudsp-eaker/Microphone

Note: This table is prepared in accordance with the provisions of SJ/T11364. "○" indicates that the content of hazardous substances in all homogeneous materials of the component does not exceed the limit requirements specified in the GB26572 standard. "×" indicates that the content of hazardous substances in at least one homogeneous material of the component exceeds the limit requirements specified in the GB26572 standard. Note: "×" means that there is no alternative substance available with the existing technology.



8K Dolby Atmos/DTS:X Cinema Decoding Processor

ISO9001 Certified Enterprise