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NEO S 简介

NEO S 将简单与性能结合进行设计，将为我们解决传统发烧音视频设备复杂的搭配和连接的麻烦，整机集成了 4K UHD 媒体播放器，音乐流媒体播放器，音视频媒体中心，高保真耳放，高保真音乐解码器，高保真蓝牙解码器等功能，提供高质量音频与视频一体的解决方案，是一款综合性能强悍且易用的发烧音响器材。

作为 4K UHD 媒体播放器，可以支持目前更先进的 4K 60Hz 12Bit HDR10+/Dolby vision 格式的解码与输出。

高清音频播放器，支持播放来自多种数字源的音乐，例如：NEO S 内置 SSD 硬盘，或 USB 外接的移动硬盘，局域网连接的电脑、NAS 服务器等本地文件，强大的音乐数播不仅支持市面上几乎所有超高采样母带音乐文件播放，例如：MQA、SACD ISO、DFF、DSF、DXD、FLAC、WAV、APE 等格式，还可以帮我们智能的管理这些本地音乐资源。

音乐网播功能，支持在线流媒体应用，DLNA 网络流媒体串流方式推送的内容播放，并以出色的音质解析与回放。

NEO S 音频解码器，采用两枚 ES9068 DAC 芯片，支持无损蓝牙、光纤、同轴、AES/EBU 和异步 USB 音频的输入，可作为一台独立高保真音频解码器使用。支持 XLR 平衡、RCA 两声道前级输出以及高性能耳放输出，不论是本地文件播放还是外部音频输入，经过本机 DAC、全平衡运放电路及发烧器件的解码处理，可获得出色的音频指标。最高可解析 22.5792 MHz 采样的 DSD 文件（DSD512 Native 模式）与采样频率为 768 kHz 32 位的 PCM 无损母带格式的文件。

NEO S 支持智能 APP 控制，在移动设备上安装芝杜专属控制 APP，可非常便捷的对机器进行全局控制；机身超大 5 英寸 OLED 高清显示屏，可直观显示常规设置菜单，音乐库数据，播放状态，输入源采样规格等。支持屏幕触控，物理音量控制旋钮，可获得更便利的操控体验。

性能参数

机身材质	铝合金
显示屏	5 英寸 OLED 高清触控屏
CPU 型号	Realtek RTD1619DR ARM Cortex-A55(六核)
GPU	ARM Mali-G51 MP3
内部存储	2GB DDR4 内存 +16GB eMMC 闪存
内置 SSD	256G SSD 硬盘
音频 DAC	ES9068*2
WiFi 网络	2.4G+5G 双频 WiFi, 802.11 a/b/g/n/ac; 2T2R MIMO 867Mbps
有线网络	1*RJ-45(10/100/1000Mbps)
HDMI 输出	2.0a (4K@60fps/12Bit/HDR/BT2020/YCbCr 4:4:4 输出) 支持音频源码透传
视频解码	4K@60p HEVC/H.265 12Bit HDR10, HDR10+, 杜比视界
音频解码	支持次世代高清音频源码直通, 解码立体声 PCM; 内置音频 DAC 解码: 最高支持立体声 DSD512、PCM 768KHz 32Bit、MQA 格式
蓝牙音频输入	CSR8675 旗舰蓝牙音频模组, 支持 SBC/AAC 等无损音频协议
USB 音频输入	支持 Windows 系统 (7, 10), Mac 系统, Android 系统 最高支持立体声 DSD512、PCM 768KHz 32Bit、MQA 格式
数字音频输入	USB DAC 输入 *1、AES/EBU 输入 *1、同轴输入 *1、光纤输入 *1
数字音频输出	同轴输出 *1、HDM 输出 *1、USB Audio 输出 *1、蓝牙音频输出 *1
模拟音频输出	前级输出: XLR(平衡)*1、RCA*1; 耳放输出: 4.4mm 平衡 *1、6.35mm 单端 *1
推荐耳机阻抗	16-300Ω (低增益模式: 16-32Ω/ 高增益模式 32-300Ω)
USB 接口	USB3.0*2, USB2.0*2
控制接口	IR 红外控制, 蓝牙控制、TCP/IP 控制 (支持网络唤醒)
电源	100 - 240V ~ 50/60Hz
机身尺寸	长 213mm* 宽 292mm* 高 101mm
包装清单	遥控器 *1, 天线 *3, 用户手册 *1

性能参数

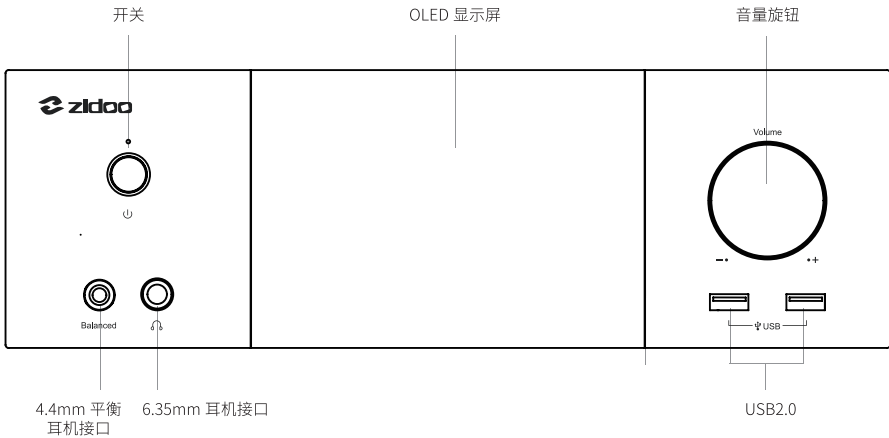
模拟音频特性	<p>XLR(平衡)输出</p> <p>输出电平 (Vrms): 4.1 Vrms 总谐波失真 (THD+N): -118dB 底噪 (Noise): 2uVrms 信噪比 (SNR): 120dB (20Hz-20kHz) 频率响应 (frequency response): ± 0.25dB (20Hz-20kHz) 通道分离度 (CROSSTALK): -120dB (1kHz, Fs=44.1kHz) 动态范围 (DNR): 119dB</p>
	<p>RCA输出</p> <p>输出电平 (Vrms): 2.16 Vrms 总谐波失真 (THD+N): -116dB 底噪 (Noise): 2.5uVrms 信噪比 (SNR): 119dB (20Hz-20kHz) 频率响应 (frequency response): ± 0.258dB (20Hz-20kHz) 通道分离度 (CROSSTALK): -130dB (1kHz, Fs=44.1kHz) 动态范围 (DNR): 118dB</p>
	<p>耳机 4.4mm 单端输出</p> <p>低增益模式</p> <p>输出电平 (Vrms): 2.26 Vrms 输出功率: 310mW/32Ω 总谐波失真 (THD+N): -116dB 底噪 (Noise): 1.7uVrms 信噪比 (SNR): 118dB (20Hz-20kHz) 频率响应 (frequency response): ± 0.25dB (20Hz-20kHz) 通道分离度 (CROSSTALK): -128dB (1kHz, Fs=44.1kHz) 动态范围 (DNR): 118dB</p> <p>高增益模式</p> <p>输出电平 (Vrms): 1.5Vrms 输出功率 / 耳机阻抗: 138mW/32Ω 总谐波失真 (THD+N): -114 dB 底噪 (Noise): 3.2uVrms 信噪比 (SNR): 116dB (20Hz-20kHz) 频率响应 (frequency response): ± 0.25dB (20Hz-20kHz) 通道分离度 (CROSSTALK): -128dB (1kHz, Fs=44.1kHz) 动态范围 (DNR): 115dB</p>

性能参数

模拟音频特性	<p>耳机 6.35mm 单端输出</p> <p>低增益模式 输出电平 (Vrms): 1.5Vrms 输出功率 / 耳机阻抗: 138mW/32Ω 总谐波失真 (THD+N): -114 dB 底噪 (Noise): 3.2uVrms 信噪比 (SNR): 116dB (20Hz-20kHz) 频率响应 (frequency response): ± 0.25dB (20Hz-20kHz) 通道分离度 (CROSSTALK): -128dB (1kHz, Fs=44.1kHz) 动态范围 (DNR): 115dB</p> <p>高增益模式 输出电平 (Vrms): 2.7Vrms 输出功率 / 耳机阻抗: 47mW/300Ω 总谐波失真 (THD+N): -114dB 底噪 (Noise): 3.5uVrms 信噪比 (SNR): 118dB (20Hz-20kHz) 频率响应 (frequency response): ± 0.25dB (20Hz-20kHz) 通道分离度 (CROSSTALK): -132dB (1kHz, Fs=44.1kHz) 动态范围 (DNR): 118dB</p>
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硬件端口介绍

1. 前面



① 触屏控制

NEO S 机身屏幕，可通过屏幕触摸对本机进行常规选择控制。

② 电源键 (Power)

对本机开关机控制。

③ 音量旋钮 (Volume)

对整机音量大小进行调节，顺时针旋转增加输出音量，逆时针旋转减小输出音量。

*DAC 输出模式下，可根据需要在 DAC 设置中，自定义音量递增调节的幅度 (0.5 dB~3dB)。

④ 遥控器控制

NEO S 配备了蓝牙红外双模遥控器，使用前建议按照开机向导中蓝牙配对指引进行遥控配对。

控制对象：遥控器控制，可以选择控制对象是大屏或小屏，默认是自动模式。

更改控制对象：

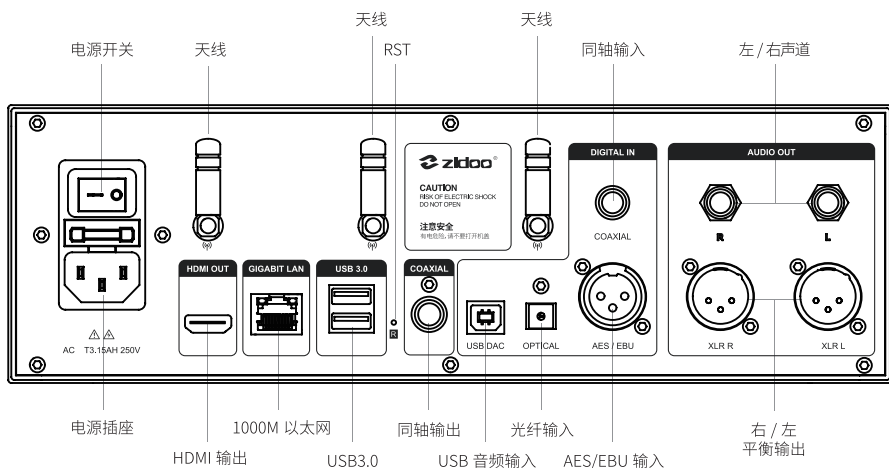
机身设置——通用设置——遥控器作用于

自动：本机 HDMI 未连接任何显示设备时，遥控对本机屏幕（小屏）进行控制，当连接有 HDMI 设备时，将对连接的显示设备（大屏）进行控制

前置显示屏：此选项仅控制本机显示屏

外接显示设备：此选项仅控制连接的显示设备（大屏）

2. 背面



注意：

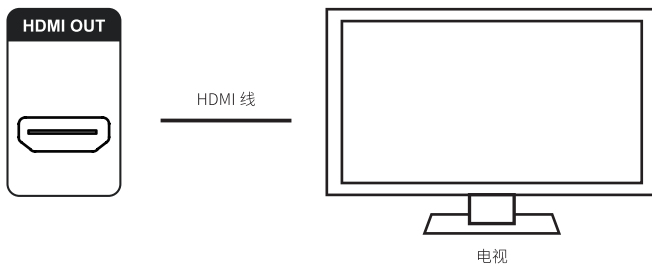
使用前，请安装好天线

连接与安装

一. HDMI 设备的连接

1. HDMI 连接电视

确保电视和NEO S都处于断电状态，将HDMI线一头插入本设备的HDMI输出端口，另一头连接至电视机的HDMI输入接口，设备开机再将电视的信号源设置切换至对应的端口。

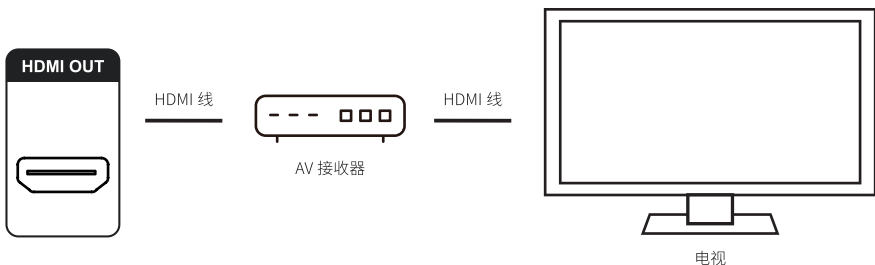


注意：

- * 为了能够享受4K超高清HDR效果，请使用满足HDMI2.0以上版本的HDMI线、以及显示设备。
- * 为了确保更佳的电影观赏效果体验，在播放本地影片时系统将会关闭机身小屏的显示。

2. HDMI 连接 AV 接收器再连接电视

确保功放、电视、NEO S都处于断电状态，用一条HDMI线将本设备的HDMI输出端口与AV接收器的HDMI输入连接，另一条HDMI线将AV接收器的HDMI输出与电视机的HDMI输入接口连接。设备开机后，分别再将AV接收器和电视的信号源设置，切换至设备连接的对应端口。



注意：

* 为了能够获得4K超高清HDR效果，除了HDMI线和显示设备，请确保连接的AV接收器也可以满足相应的技术规格。

* HDMI音频输出与DAC模拟音频无法同时选择输出，以上连接需将音频源设置为数字输出，才会从HDMI通道输出音频。

设置方式：系统设置 —— DAC音频 —— 音频源 —— 数字输出（关闭DAC）

* 本机HDMI 输出支持源码透传，如果AV接收器可以支持更先进的音频格式，请将HDMI音频设置输出模式设置为源码输出。

设置方式：系统设置 —— 音频源设置 —— HDMI音频 —— 源码透传

二 . 音频输出的连接与安装

1. 数字音频输出连接音频接收器

本机数字音频输出，包括了HDMI音频输出、同轴、USB音频、蓝牙音频的输出，选择通过数字音频输出时，请将音频源选择为“数字输出”，DAC音频会关闭。

① 通过同轴连接解码器或AV接收器

使用数字同轴音频线，将本机的同轴输出接口连接至AV接收器的对应的同轴输入端口，再将连接的解码器或AV接收器的信号源，切换至对应输入端口。



注意：

同轴最高支持5.1 声道输出。

② USB音频输出连接解码器

使用USB音频数据线，将本机任意 USB Type-A接口连接到具备USB 音频输入的解码器接口。

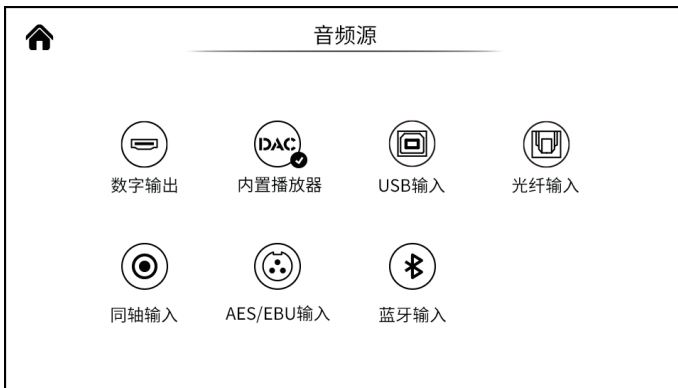


注意：

- * 选择此通道输出本机，对应设置：**音频设置 — USB音频**
- * USB音频输出会因搭配解码器不同，兼容性会有差异，遇到无法兼容的解码器，请和我们技术支持联系反馈。

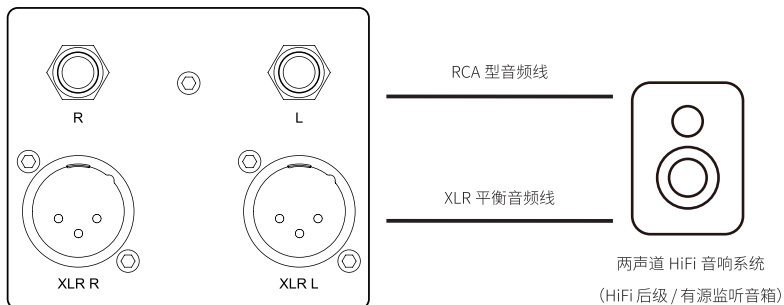
2. 模拟音频输出与设备的连接

本机模拟输出包括RCA、XLR、耳机接口，音频均经过本机ES 9068 DAC解码输出，内置播放器播放需要打开音频源设置“DAC（内置播放器）”，外部音频输入需切换到对应的音频源输入，模拟输出时数字端口输出将会关闭。



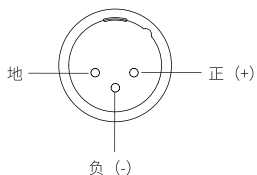
① RCA、XLR输出连接两声道后级功放或有源音箱

用一对RCA型或XLR平衡卡侬模拟音频线，将本机RCA或者XLR平衡输出端口与有源音箱或者HiFi后级设备对应的接口连接。

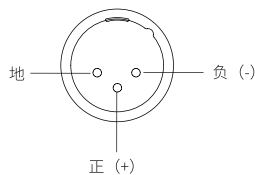


注意:

- * 本机配备了两组独立立体声输出端口：RCA型和XLR型平衡端口可同时输出音频信号，二者选择一种即可，建议优先选择XLR平衡端口连接，可获得最佳的噪音抑制和信号完整性。
- * NEO S的平衡输出为三插脚XLR公型端口，输出一对差分信号（正/负信号），后级电路可以通过比较这对信号的电压差值，抵消共模噪声，提升原始信号的完整性。
- * 在某些音频系统上，正负极性是对调的，NEO S默认为正向极性如下示意，如需对调极性，可以在**系统设置菜单 — DAC音频 — XLR极性设置为反向**



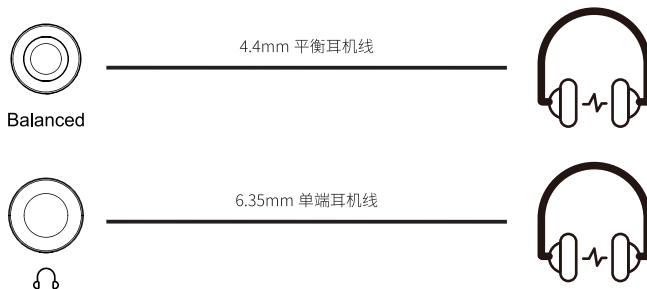
正向极性示意图 + 系统正向设置



反向极性示意图 + 系统反向设置

② 耳放输出连接耳机

本机具备耳放功能，前面板提供有两个耳机输出，6.35mm单端和4.4mm平衡输出接口，请将同标准的耳机插头连接至本机对应耳机接口。



注意：

* 本机推荐匹配耳机阻抗范围16-300Ω（低增益模式：16-32Ω/高增益模式32-300Ω）。

* 耳放增益模式切换：通过本机屏设置，**设置** —— **DAC设置** —— **耳机增益设置（低增益/高增益）**

* 模拟输出同时连接优先级：6.35mm耳机输出优先于4.4mm平衡耳机输出优先于XLR平衡/RCA输出。

三 . 数字音频输入源设备的连接

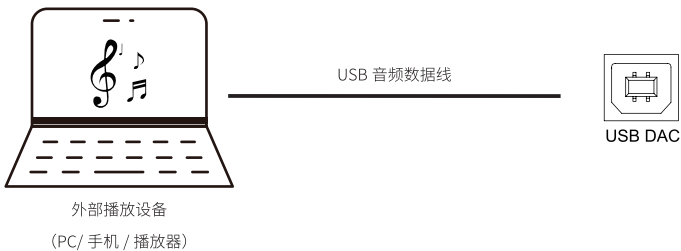
1. USB 音频输入设备的连接

使用一条USB Type-A接口转USB Type-B型接口的连接线，可直接将NEO S与个人电脑、具备USB 音频输出的播放设备以及手机等连接。

这样的连接方式将NEO S作为一台高性能纯解码器来使用，外部播放器输入的数字信号经过本机ES9068 DAC解码芯片解码并输出，进而提供最优化的音频解码性能。

需在系统对应音频源设置中选择该输入源：

音频源设置 —— 选择  USB输入



注意：

* 由操作系统与播放软件的差异，您可能需要安装对应的驱动软件或进行软件设定来支持电脑，或者外部播放设备向NEO S传输音乐。如：Windows系统需要在PC上安装音频驱动才可使用，驱动程序请在官网下载中心下载或联系技术人员获取，Mac OS系统与Android系统无需安装驱动。

* USB输入最高支持DSD512、PCM 768KHz 32Bit、MQA格式，实际规格受外接的播放硬件设备和软件支持情况影响。

2. 同轴 / 光纤与 AES/EBU 音频输入的连接

① 同轴/光纤音频输入

光纤/同轴数字音频输入，同轴用一条75欧姆同轴线可将一台播放设备的同轴输出连接到本机的数字同轴音频输入接口（光纤同理采用标准光纤线连接），通过此通道输入信号。

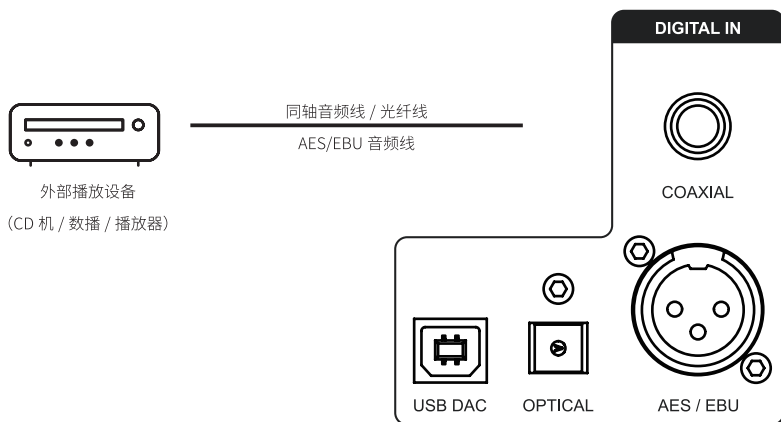
需在系统对应音频源设置中切换输入源为：



② AES/EBU音频输入

AES/EBU用一条75欧姆数字卡侖音频线，可将一台播放设备的AES/EBU输出连接到本机的AES/EBU平衡数字音频输入接口。

需在系统对应音频源设置中切换输入源为：



3. 蓝牙音频输入

本机内置了一枚独立CSR8675旗舰蓝牙音频模组，支持SBC、AAC等无损音频协议，可接收来自移动设备无损发送蓝牙音频信号，本机作为高品质蓝牙解码器使用。

需在系统对应音频源设置中切换输入源为：

音频源设置 —— 选择



蓝牙输入，在移动端打开蓝牙搜索设备“NEO S”，配对即可。

四 . 网络音乐推送

NEO S支持多种协议进行网络音乐的推送播放，当移动设备与NEO S处于同一个网络内，可以在移动设备上使用DLNA 向本机推送音乐。

先打开NEO S屏幕主页中“媒体中心”——“DLNA”，再打开移动设备中支持DLNA推送的app，播放app里的一首歌曲并点“投屏”按钮推送到NEO S。



* DLNA推送的使用体验可能会因为设备和app的差异而有所不同。

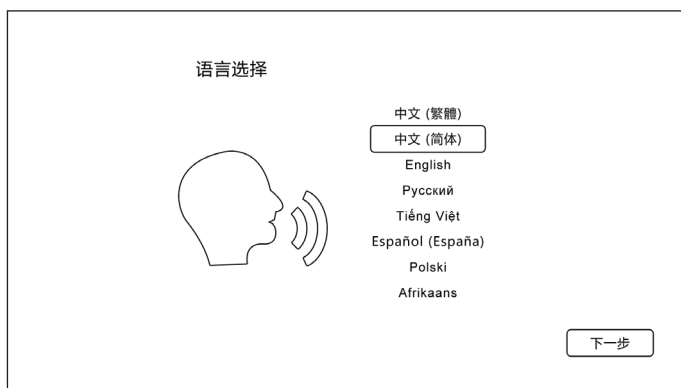
初始化设置

NEO S在正式使用前，首次开机屏幕将会先进入系统的初始化配置，初始化设定分为大屏（HDMI输出到显示设备的画面）与小屏（机身显示屏幕），机器将会根据实际设备的连接情况来自动选择初始化页面从大屏或小屏呈现，即：如果HDMI连接大屏，将会仅通过大屏来完成初始化，反之没有连接HDMI大屏的情况下，将会通过机身屏幕来完成初始化。请按照系统流程与指引来设置您的设备，以获得更佳的使用体验。

一 .HDMI 大屏系统初始化配置

1. 系统语言选择、屏幕缩放、时区设置

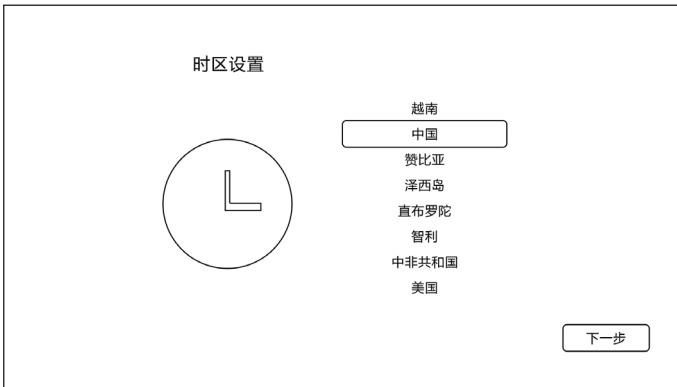
按照您的语言习惯选择系统语言。



按遥控器左右方向键调节合适的屏幕显示大小。

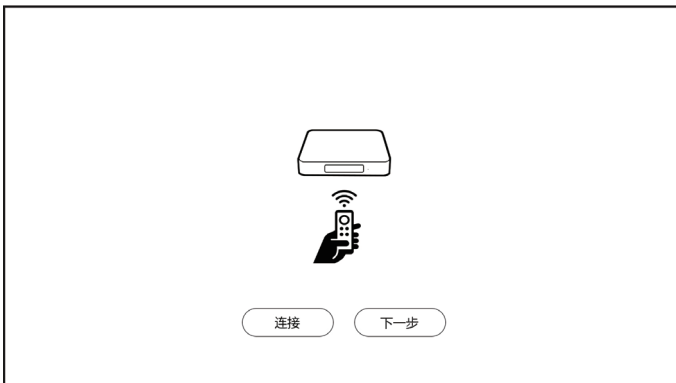


根据您所处地区选择对应系统显示的时区。



2. 蓝牙遥控配对

遥控器对准机器，距离30厘米以内，同时按住翻页下键与菜单键至指示灯闪烁，进行配对，配对完成之后指示灯熄灭。



注意：

- * 蓝牙配对前请务必先安装好蓝牙天线
- * 本机HDMI连接大屏时，遥控器仅支持大屏控制

3. 网络设置

设置相关网络配置，让机器快速连接网络。



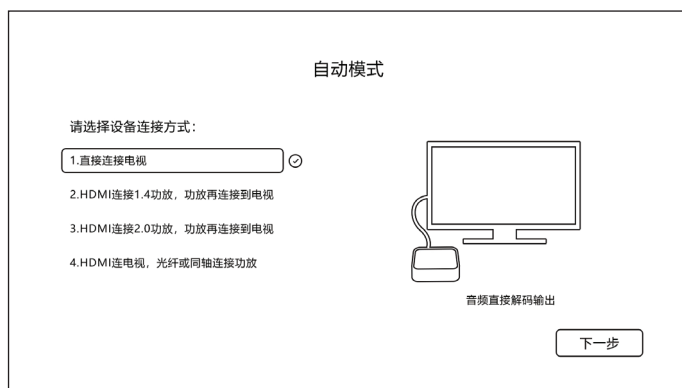
无线网络 (Wi-Fi)：选择网络 SSID，输入密码，连接 Wi-Fi。

有线网络：只需插入网线即可自动连接网络。

4. 选择输出模式

请根据需要选择相应的模式来完成设备输出参数的设置。

向导模式：根据您的使用环境和设备连接情况选择对应的选项。



专家模式：音视频输出为自定义选择模式，可根据设备连接和支持的规格选择相应的音视频输出，此模式建议专业人员操作。

专家模式

分辨率选择	HDR模式 映射HDR10 所有内容都会映射成HDR10输出，最高支持HDR10+	<div style="border: 1px solid black; padding: 5px; display: inline-block;">下一步</div>
HDR模式	最高SDR Rec.709 所有内容都会转换成SDR Rec.709输出	
视频帧率切换	最高SDR Rec.2020 最高支持SDR Rec.2020输出，HDR内容将转换成SDR Rec.2020 <input checked="" type="checkbox"/>	
音频输出	杜比视界VS10引擎 使用杜比视界VS10引擎处理HDR内容以获得最好的画面质量，并根...	
	自动 根据播放内容与显示设备能力智能判断决定输出SDR、HDR或者杜比视界	

5. 按键定义

根据您的使用习惯定义遥控器上的数字键，选时键，字幕键，音轨键，上下键，翻页键对应的功能。

按键定义

数字键	特定百分比播放 >
选时键	关闭 >
字幕键	字幕列表 >
音轨键	音轨列表 >
上下键	切换章节 >
翻页键	切换章节 >

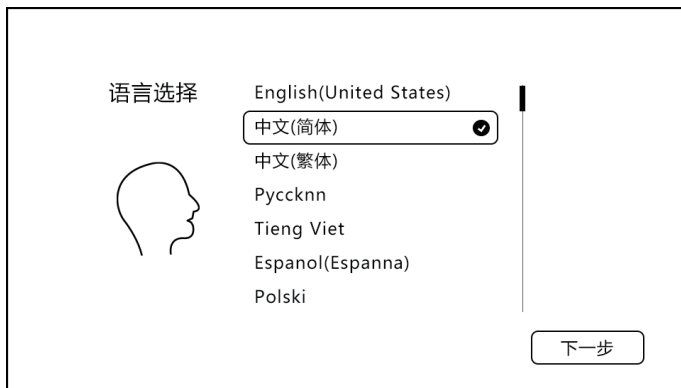
下一步

完成以上设置后，按照提示点下一步完成整个设备的初始化设置，即可享受芝杜产品给您带来的影音盛宴。

二. 机身屏幕初始化配置

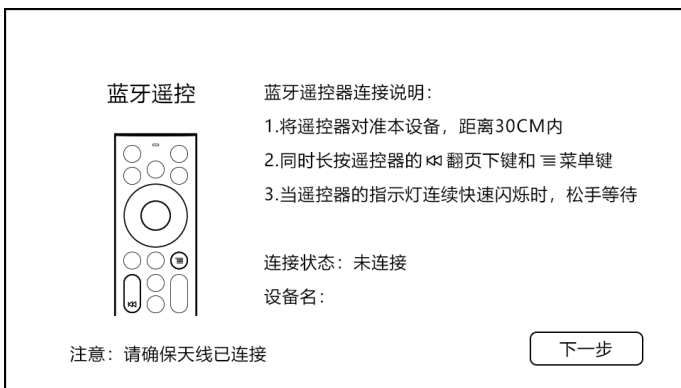
1. 系统语言选择

根据需要，选择系统显示语言。



2. 蓝牙遥控配对

遥控器对准机器，距离30厘米以内，同时按住翻页下键与菜单键至指示灯闪烁，进行配对，配对完成之后指示灯熄灭。

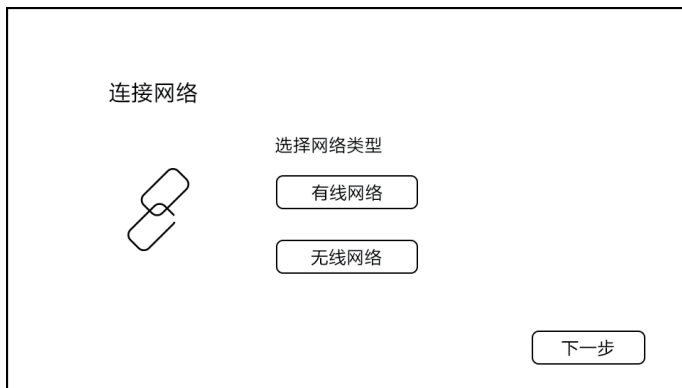


注意：

- * 蓝牙配对前请务必先安装好蓝牙天线
- * 本机HDMI未连接显示设备时，遥控器仅支持小屏控制

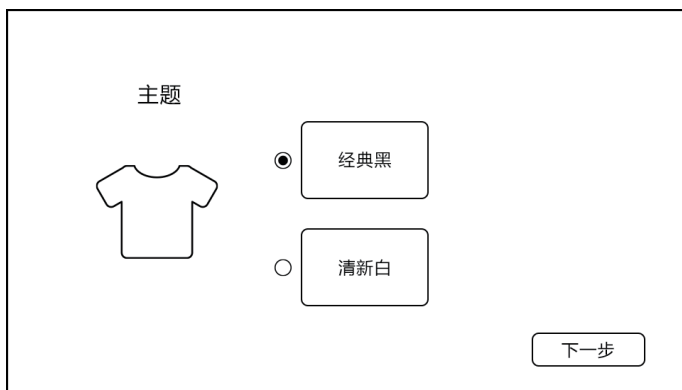
3. 网络设置

设置相关网络配置，让机器快速链接网络。网络分为无线网络和有线网络，请选择其中一种方式连接成功即可。



4. 主题模式选择

本机系统提供两种小屏主题选择，请根据个人喜好选择相应的主题。



文件管理器

一. 本机屏幕文件管理器的编辑功能使用

通过NEO S本机屏幕打开文件管理器，可对文件进行常规的编辑操作，本机内置硬盘、USB外接存储设备以及网络服务器中的媒体文件进行复制、粘贴、剪切以及删除操作，外部存储的文件快捷复制到本机内置的SSD等功能。



1. 外部存储设备文件快捷拷贝到本机SSD

文件管理器，选择一个设备文件目录，点“编辑”——**全选/单选**需要拷贝的母版文件夹/文件，点“复制到SSD”即可，也可以通过下面方式进行拷贝。

2. 外部设备文件之间的拷贝

文件管理器，选择一个设备的文件目录，点“编辑”——**全选/单选**需要复制的母版文件夹/文件，点“复制”或“剪切”，再到要复制到的目标设备文件目录，再点击“粘贴”即可。

3. 文件的删除

文件管理器，选择一个设备的文件目录，点“编辑”——点**全选/单选**需要删除的文件或文件夹，选**确认**即可。

注意：

- * 在网络存储设备中对文件粘贴操作，需该设备具备写入权限。
- * 删除文件，将会彻底删除所选文件数据无法恢复，请谨慎操作。

二. 大屏文件管理器的编辑和管理功能使用

使用NEO S的 HDMI 连接显示大屏操作系统时，通过大屏系统文件管理器可以对储设备进行更多的编辑功能和管理操作，功能如下：

1. 硬盘的卸载与格式化

打开文件管理，按“**左键**”可以选择连接的存储设备，再按一次“**左键**”可以对硬盘进行卸载与格式化的操作。

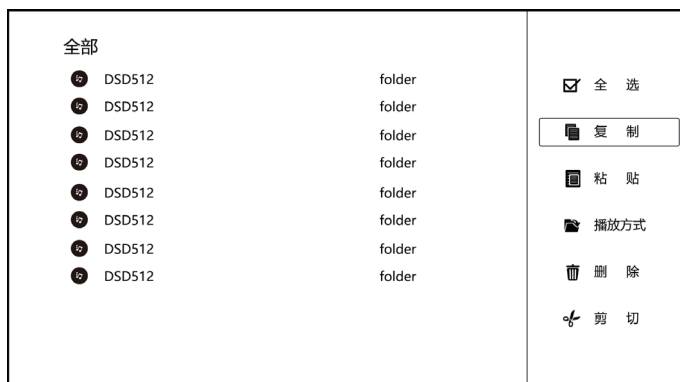


卸载： 卸载当前连接的USB存储设备

格式化： 对当前的USB存储设备进行格式化操作，支持卷标名称编辑，格式选择

2. 文件的编辑与操作功能

通过HDMI 连接显示大屏操作系统时，打开文件管理，在硬盘文件目录按遥控器“菜单”键或“右键”可对文件进行如下操作。



多选/全选：选择需要操作或编辑的文件

复制：对所选的文件进行复制

粘贴：粘贴复制的文件

播放方式：选择的该文件以何种播放器进行播放，适用于当文件需要通过第三方播放软件播放

删除：将所选的文件删除

剪切：对所选的文件执行剪切操作

收藏：收藏所选的文件

刷新：刷新当前页面

重命名：将所选文件重新命名

新建：在当前目录新建一个文件夹或文件

视图：设置文件浏览的视图模式和排列方式

设置：对文件管理器一些高级功能的设置

* 在网络存储设备中对文件粘贴、重命名、新建操作，需该设备同时具备写入权限。

* 格式化和删除文件操作，将会彻底清掉文件数据无法恢复，请谨慎操作。

音乐播放器

本机系统内置了一款高清音乐播放器，可支持播放内置SSD的、本地硬盘、局域网NAS等存储设备中的高清无损音乐，还可以跨设备将所有音乐文件一次性添加到音乐播放器，经过智能匹配，自动为我们生成音乐库，音乐资源的分类管理、收藏、查找以及点播将更直观便捷。

一. 本地音乐文件的添加

1. 使用机身显示屏添加

打开本机，在屏幕主界面，确保网络连接成功，点击“音乐库”——“文件夹”——点击“添加音乐目录”——选择音乐所存储的设备（硬盘、NFS/SMB家庭网络服务器），找到音乐所在的文件目录——点击确认，等待扫描完成即可。

* 长按添加的文件目录可以进行全部播放、扫描和移除的操作。

2. 使用HDMI外接的显示屏添加

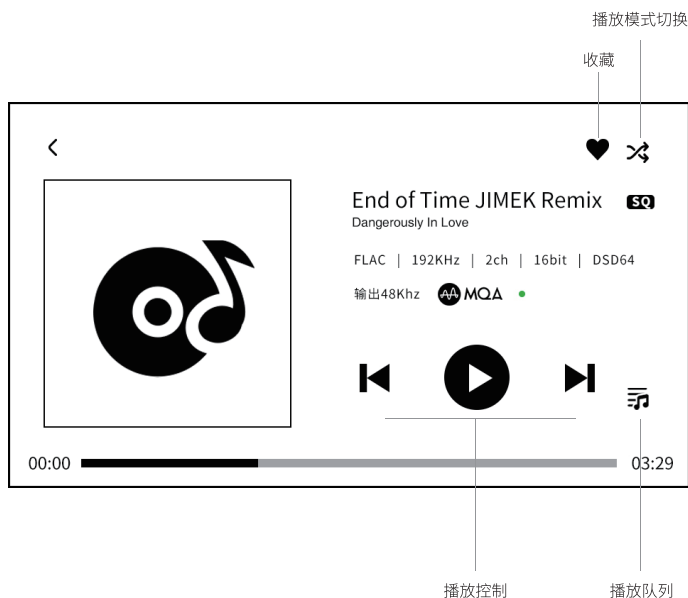
添加方法与以上机身小屏方法大致相同，首次使用可根据屏幕指引添加设备，扫描音乐文件目录即可。

二. 音乐的播放

音乐文件目录添加并扫描完成后，就可以在“音乐库”下的分类菜单：“单曲”、“艺术家”、“专辑”、“文件夹”中分类查看音乐文件了，进入对应文件列表后点击需要播放的曲目即可播放，点击屏幕右上角的播放状态图标可以直接进入正在播放的详情页。

三. 音乐播放状态显示和播放控制

音乐正在播放的详情页面可以显示当前曲目的专辑封面、歌曲名、采样规格、播放进度以及控制按钮。



1. 按钮功能说明



收藏： 当前播放的歌曲添加到我的收藏

播放控制： 上一曲/下一曲、暂停/播放控制

播放模式切换： 列表循环、单曲循环、随机播放、顺序播放模式的切换

播放队列： 查看当前播放曲目所在分类中的所有音乐播放队列，比如从艺术家进入选择某一个艺术家分类下的单曲，此时播放队列就是该艺术家下的所有曲目清单，其他分类单曲、专辑、收藏，我的歌单等同理。

2. 音乐的收藏

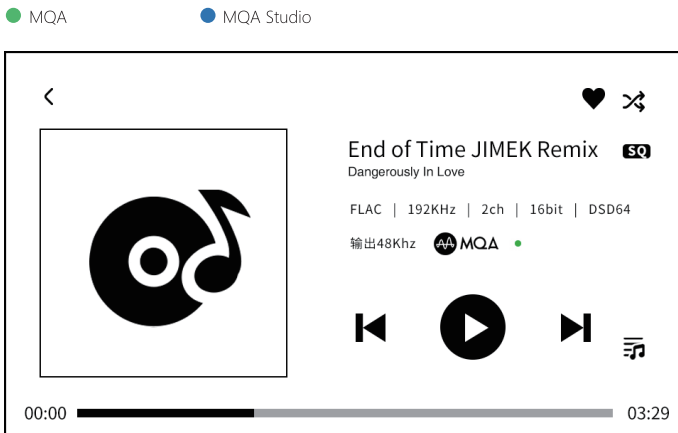
- ① 当前播放的单曲收藏：正在播放音乐的详情页，点击  直接收藏当前播放的歌曲
- ② 单曲目录自由选择收藏：艺术家、专辑、文件夹中展开的音乐列表中长按需要收藏的歌曲，在弹出的菜单中选择收藏
- ③ 播放队列批量收藏：音乐当前播放的详情页，点击播放队列，点击右上角  直接批量收藏当前全部播放队列的音乐，通过此方式可以收藏某个艺术家、专辑下的全部曲目。

3. 新建或添加我的歌单

- ① 新建和添加单曲到歌单：在收藏、艺术家、专辑、文件夹中展开的音乐列表，长按单个歌曲在弹出的选框中选择“添加到歌单”——“新建歌单”——输入需要新建歌单名称，再选择新建好的歌单，即可添加成功。
- ② 批量添加到歌单：在音乐当前播放的详情页，点击播放队列，点击右上角“添加”按钮——>选择需要新建或者建好的歌单，即可将当前播放队列的全部歌曲批量添加到所选歌单中。

四 .MQA (Master Quality Authenticated)

NEO S 包含MQA技术使您能够播放 MQA 音频文件和音乐流，提供原始母带录制的声音。NEO S LED 绿灯或者蓝灯亮起表示设备正在解码播放MQA流/文件，并表示出处，保证声音与源材料一致。蓝灯亮起表示设备正在播放MQA Studio文件，文件已在艺术家/制作人在工作室批准或已由版权所有人验证。



智能手机 APP 控制

用户在移动手机端安装ZIDOO Controller 控制APP，可以通过手机控制Zidoo播放器的所有功能，包含文件管理器、应用、音乐播放器、海报墙数据的浏览控制以及对本机系统的设置。

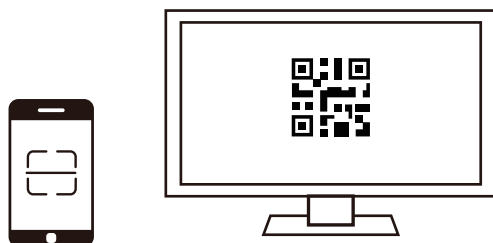
① 应用安装

请参照电视屏幕打开设备“**所有应用程序 —— 控制中心**”或者进入机身屏幕，“**设置 —— 控制中心**”，扫描对应系统平台的二维码，下载安装。应用支持安卓与苹果系统，也可以在本手册第30页，扫描对应二维码下载安装。ISO系统在手机“Apple Store”搜索“Zidoo”下载安装。

② 设备的连接

应用安装完成后，确保设备连接网络，且移动设备与播放器处在同一个局域网内，按照以下步骤添加设备。

连接步骤：打开手机控制APP“**+ 添加 —— 扫描设备控制中心二维码或点扫描**”，在设备屏幕弹出控制授权，点击确认即可连接。



OTA 系统升级

芝杜 Zidoo 会不定期对机器系统进行固件升级。新固件发布后，可以通过 OTA 系统升级，获得新的功能体验。NEO S OTA 系统升级，通过大屏或者小屏均可进行升级操作，并支持在线网络升级与本地升级两种方式。

一. 通过大屏升级系统

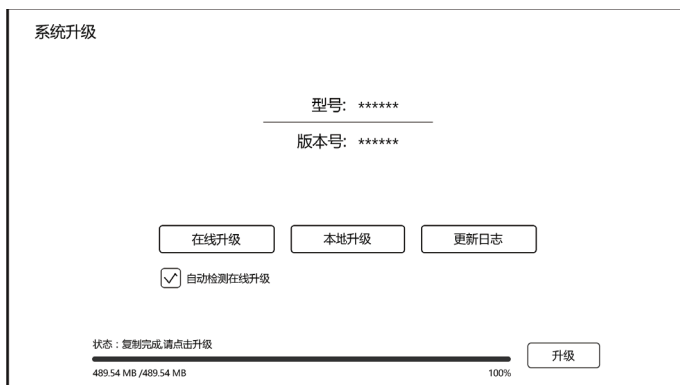
1. 在线升级

在升级页面，点“在线升级”选项，将通过网络获取最新升级信息，按照屏幕提示完成升级，等待升级完成机器自动重启。



2. 本地U盘升级

通过官方公众号或者官网等渠道手动下载本机升级文件包至U盘中，将含新版升级文件的U盘接入机器，升级页面点击“本地升级”选项，选择升级文件包（无需解压），按照屏幕提示完成升级操作，待升级完成机器重启即可。



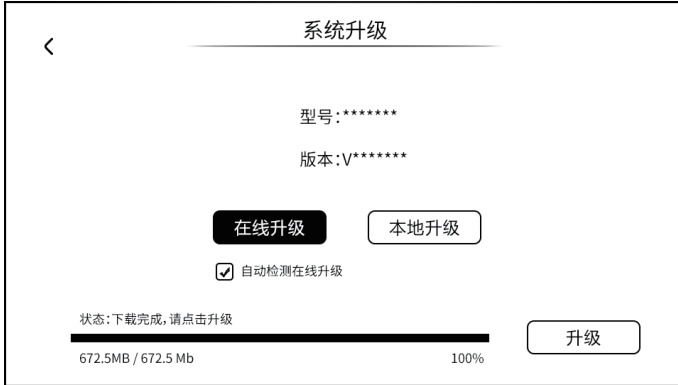
二. 通过本机屏幕升级系统

在机器屏幕，选择：**设置** —— **通用设置** —— **系统升级**



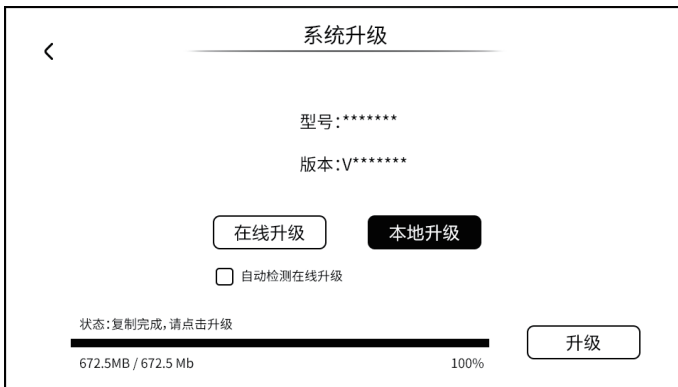
1. 在线升级

在升级页面，点“在线升级”选项，将通过网络获取最新升级信息，按照屏幕提示完成升级，等待升级完成机器自动重启。



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资源下载：

* 推荐使用手机浏览器扫描二维码。



IOS 控制 APP



Android 控制 APP



RS232 协议代码

特别说明：

为了提升用户体验，芝社会不定期对产品固件进行更新。因此，本说明书内容，可能会与产品实际使用有所出入的情况。更多新功能的使用，请在官网下载电子档新版说明书。

安全警示：

- 1、本设备不得遭受水溅或水滴，不得在设备上放置类似花瓶一类装满液体的物品。
- 2、本产品断开电源装置为电源输入插头或背面电源开关，为了便于操作，电源插头或电源开关附近不能被其他物体阻挡。
- 3、本产品为I类产品，使用此产品须确保要有良好的接地措施。



* 本产品仅适用于海拔在 2000 米以下正常使用。

NEO S Introduction

NEO S is an all-in-one HiFi solution, which solves complicated device matching and connection problem and combines 4K UHD media player, music streaming media player, audio and video media center, high-fidelity headphone amplifier, music decoder and Bluetooth decoder.

As a 4K UHD media player, it can decode and output advanced 4K 12Bit HDR10+/Dolby vision.

NEO S can play music from a variety of input sources, such as internal SSD, hard drive, computer and NAS server. Almost all high-sampling master-tape music files can be played such as MQA, SACD ISO, DFF, DSF, FLAC, WAV, APE etc., and it can manage local music resources and music streaming.

Music streaming application,DLNA streaming are supported.

NEO S can be used as an independent high-fidelity audio decoder with two ES9068 DAC chips, lossless Bluetooth, Optical, Coaxial, AES/EBU and asynchronous USB audio input, XLR balanced, RCA two-channel preamp output and high-performance amp output. Excellent audio index for both local files and external files can be obtained by the decoding of DAC, fully balanced operational amplifier circuit and HiFi components. Up to 22.5792 MHz sampling DSD files (DSD512 Native mode) and 768 kHz 32 bit PCM lossless master files.

NEO S can be controlled easily by Zidoo Controller APP. The large 5-inch OLED HD display screen intuitively shows up general settings, music library data, playback status and input source sampling rate etc. It is very convenient to operate by touch screen, physical volume knob and multifunctional control knob.

Specification

Chassis	Aviation aluminum alloy
Display	5-inch OLED HD touch screen
CPU	Realtek RTD1619DR ARM Cortex-A55(hexa-core)
GPU	ARM Mali-G51 MP3
Internal Storage	2GB DDR4 (RAM)+16GB eMMC
Internal SSD	256G SSD hard drive
DAC	ES 9068*2
Wi-Fi	2.4G+5G dual band WiFi, 802.11 a/b/g/n/AC 2T2R MIMO 867Mbps
Ethernet	1*RJ-45(10/100/1000Mbps)
HDMI Output	2.0a (4K@60fps/12Bit/HDR/BT2020/YCbCr 4:4:4 output)/ audio passthrough
Video Decoding	4K@60p HEVC/H.265 12Bit HDR10, HDR10+, Dolby Vision
Audio Decoding	Support true-hd HD audio passthrough, stereo PCM decoding. Built-in DAC audio decoding: support up to stereo DSD512 24Bit, PCM 768KHz 32Bit, MQA
Bluetooth Audio Input	CSR8675 flagship Bluetooth audio module supports mainstream lossless audio protocols such as SBC/AAC
USB Audio Input	USB audio compatible system: Windows(7,10), Mac, Android Support up to stereo DSD512, PCM 768KHz 32Bit, MQA
Digital Audio Input	USB DAC IN, AES/EBU input, Coaxial input, Optical Input
Digital Audio Output	Coaxial output, HDMI output, USB Audio output, Bluetooth output
Analog Audio Output	Preamp output: XLR(balanced), RCA; Headphone amplifier output: 4.4mm balanced, 6.3mm single end.
Headphone Impedance	16-300Ω (low-gain mode: 16-32Ω/ high-gain mode: 32-300Ω)
USB Ports	USB3.0*2, USB2.0*2
Control Ports	IR, Bluetooth, TCP/IP (WOL)
Power Supply	AC 110-240V 50/60Hz
Dimensions	213mm*292mm*101mm
Packing List	Remote control*1, Antennas*3, Product manual*1

Specification

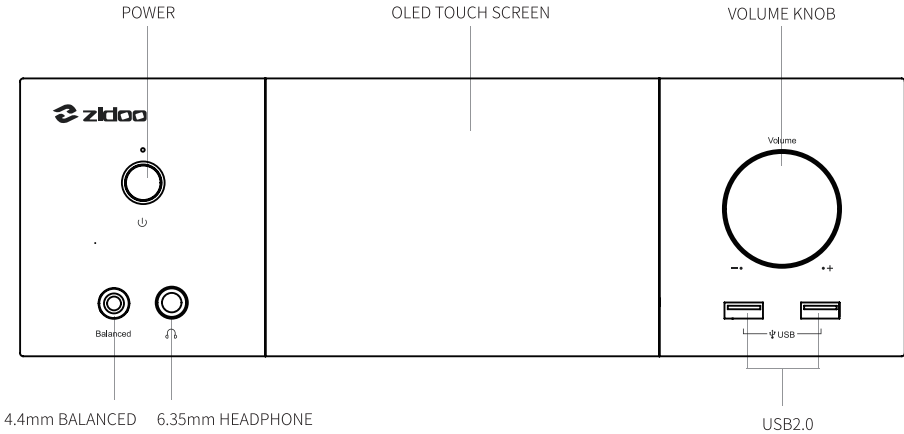
Analog Audio Characteristics	<p>XLR(balanced) Output</p> <p>Output Level(Vrms): 4.1 Vrms THD+N: -118dB Noise: 2uVrms SNR: 120dB(20Hz-20kHz) Frequency Response: ± 0.25dB(20Hz-20kHz) Crosstalk:-120dB(1kHz,Fs=44.1kHz) DNR:119dB</p>
	<p>RCA Output</p> <p>Output Level(Vrms): 2.16 Vrms THD+N:-116dB Noise: 2.5uVrms SNR: 119dB(20Hz-20kHz) Frequency Response: ± 0.258dB(20Hz-20kHz) Crosstalk: -130dB(1kHz,Fs=44.1kHz) DNR: 118dB</p>
	<p>Headphone 4.4mm Balanced Output</p> <p>Low-gain mode</p> <p>Output Level(Vrms): 2.26Vrms Output Power: 310mW/32Ω THD+N: -116dB Noise: 1.7uVrms SNR: 118dB(20Hz-20kHz) Frequency Response: ± 0.25dB(20Hz-20kHz) Crosstalk: -128dB(1kHz,Fs=44.1kHz) DNR: 118dB</p> <p>High-gain mode</p> <p>Output Level(Vrms): 4.1Vrms Output Power: 110mW/300Ω THD+N: -118dB Noise: 3.5uVrms SNR: 120dB(20Hz-20kHz) Frequency Response: ± 0.25dB(20Hz-20kHz) Crosstalk: -130dB(1kHz,Fs=44.1kHz) DNR: 119dB</p>

Specification

Analog Audio Characteristics	<p>Headphone 6.35mm Single End Output</p> <p>Low-gain mode Output Level(Vrms): 1.5Vrms Output Power: 138mW/32Ω THD+N: -114dB Noise: 3.2uVrms SNR: 116dB(20Hz-20kHz) Frequency Response: ± 0.25dB(20Hz-20kHz) Crosstalk: -128dB(1kHz,Fs=44.1kHz) DNR: 115dB</p> <p>High-gain mode Output Level(Vrms): 2.7Vrms Output Power: 47mW/300Ω THD+N:-114dB Noise: 3.5uVrms SNR: 118dB(20Hz-20kHz) Frequency Response: ± 0.25dB(20Hz-20kHz) Crosstalk: -132dB(1kHz,Fs=44.1kHz) DNR: 118dB</p>
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Hardware Introduction

1. Front



① Touch screen

Most operation can be done by touch screen.

② Power

Turn on/off the device.

③ Volume knob

Rotate clockwise to increase volume while counterclockwise to decrease volume.

*Under the DAC IN mode, volume can be adjusted with step 0.5db~3db in DAC setting.

④ Remote control

Bluetooth infrared remote control is equipped for NEO S, it is suggested to follow the boot wizard to finish Bluetooth pairing before use.

4K UHD Hi-end Media player

You can choose to control the large screen or small screen by remote. It is automatic mode by default.

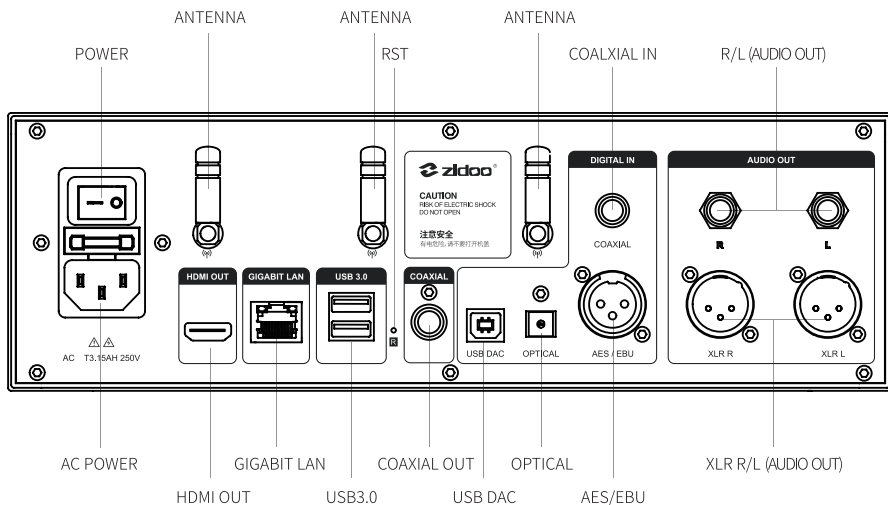
There are three modes on touch screen "**Setting — General setting — The remote control acts on**".

Auto mode: the remote will control the touch screen (small screen) when display device are not connected, otherwise it will control display device (large screen).

Front display: only control touch screen (small screen).

External display device: only control display device (large screen).

2.Back



Note:

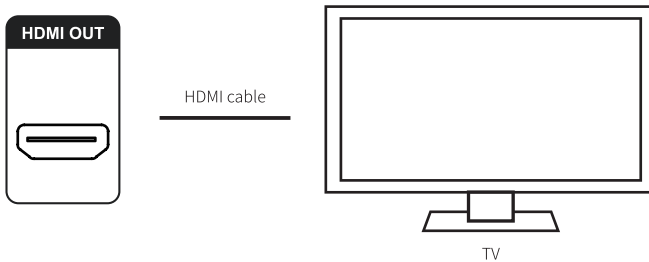
Please install antennas before using.

Connection and Installation

1. HDMI Device Connection

① Connect with TV

Make sure both TV and NEO S are power-off, connect these two devices by HDMI cable from NEO S HDMI OUT port to TV HDMI IN port. And choose the correct signal source on TV after powering on.



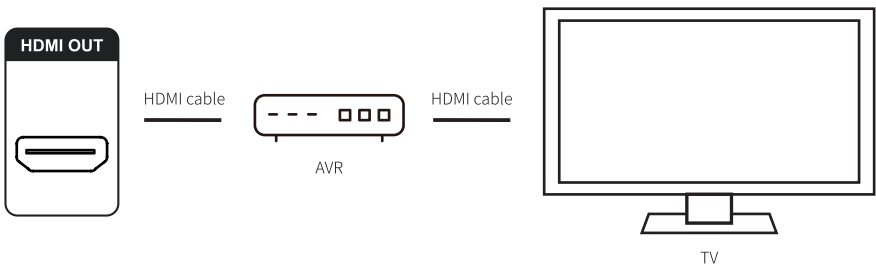
Note:

*Please use HDMI 2.0 or higher-specification cable and display device to enjoy 4K UHD HDR experience.

*The small screen will be turned off when playing movie to ensure better movie viewing experience.

② Connect with TV and AVR

Make sure AVR, TV, and NEO S are all power-off. Two HDMI cables are required in this process, one cable connect from NEO S HDMI OUT port to AVR HDMI IN port, another cable connect from AVR HDMI OUT port to TV HDMI IN port. Choose the correct signal source on AVR and TV respectively after powering on.



Note:

* In order to get wonderful 4K UHD HDR experience, please ensure that HDMI cable, display device and AVR all can meet the corresponding technical specifications.

* HDMI OUT and DAC analog cannot output at the same time. It is needed to turn off DAC to output audio from HDMI:

Settings > DAC Audio > Source In > Digital Output (Turn Off DAC).

* HDMI audio passthrough is supported by NEO S, if AVR supports more advanced audio formats, please set HDMI output mode to RAW:

Settings > Audio > HDMI Audio > RAW.

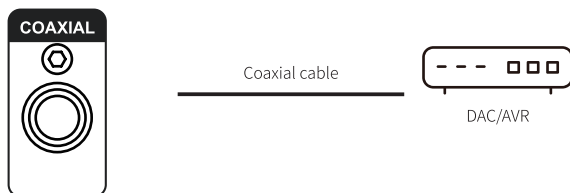
2.Audio Output Connection and Installation

Digital audio output includes HDMI, Optical, Coaxial, USB and Bluetooth audio output. Please select the audio source as "Digital Output", meanwhile the DAC audio will be turned off.

① Digital Output

① Connect DAC or AVR by Coaxial

Connect the device with AVR by coaxial audio cable, switch to corresponding signal source on DAC or AVR.

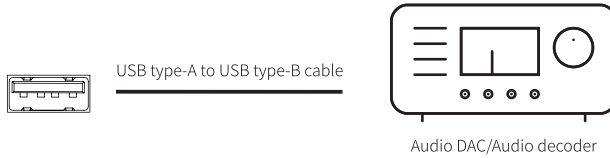


Note:

Coaxial output supports up to 5.1 output

② Connect DAC by USB Audio Output

Connect NEO S USB Type-A port with DAC USB DAC IN port by USB audio cable.



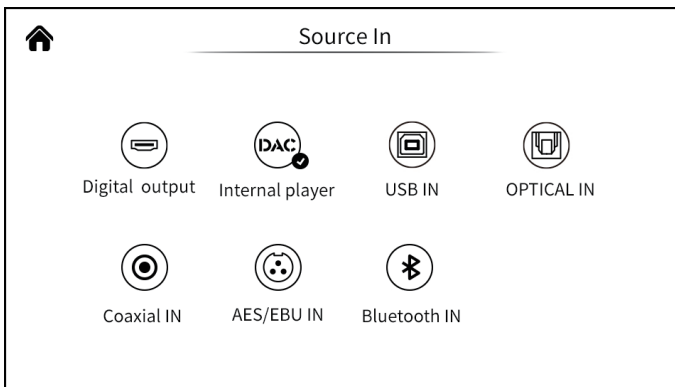
Note:

* Corresponding setting: **Settings > Audio > USB Audio**

* Please contact with Zidoo tech support if you meet incompatible situation when connecting USB audio output to some DAC

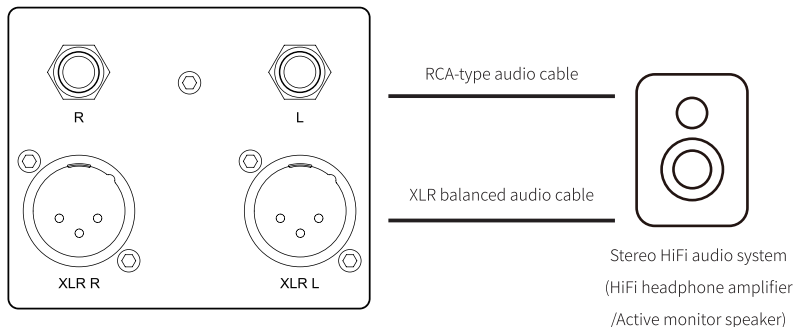
② Analog Output

Analog audio output includes RCA, XLR and headphone jacks, all of them are decoded and output by the ES 9068 DAC. When playing from internal player, it's needed to turn on "Source In> DAC(internal player)". When playing from external player, please switch to relevant sources. The digital output will be closed when outputting from analog output.



① RCA, XLR output

Connect NEO S with active speaker or HiFi poweramp by using a pair of RCA or XLR balanced analog audio cables.

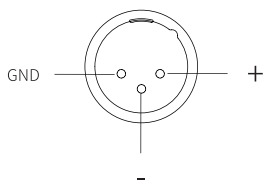


Note:

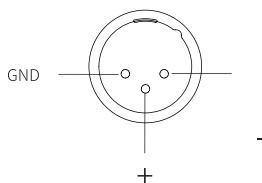
* NEO S is equipped with two independent stereo output ports: RCA and XLR balanced ports can output audio signals simultaneously. Generally only choosing one of these ports is enough, and it is recommended to choose XLR balanced port to obtain better noise suppression and signal integrity.

* NEO S balanced output is a three-pin XLR male port, which will output differential signals pair (positive/negative signals). The amplifier circuit can cancel common mode noise and improve the integrity of the original signal by comparing the voltage difference of signals pair.

* In some audio systems, the positive and negative polarities are reversed. The default positive polarity are shown below. If you need to reverse the polarity, please set it in the system: **Settings > DAC audio > XLR Port Polarity > Reverse**



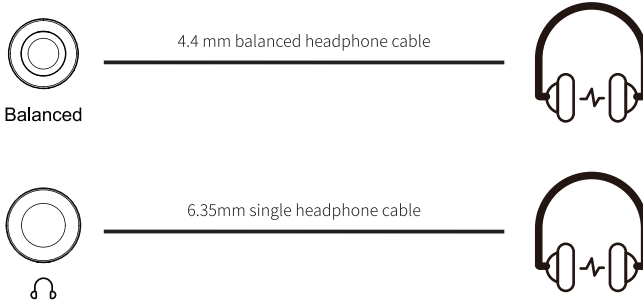
Positive polarity diagram + system positive setting



Negative polarity diagram + system negative setting

② Headphone Amplifier Output

There is two headphone ports including 6.35mm and 4.4mm balanced amp output on NEO S front panel. Please connect to corresponding port according to your demand.



Note:

* Recommended headphone impedance range for the device is 16-300 Ω (low-gain mode: 16-32 Ω / high-gain mode: 32-300 Ω).

* AMP gain mode switching: set through NEO S touch screen,

Settings > DAC settings > Headset gain > Low gain/High gain

* The output priority: 6.35mm headphone output > 4.4mm balanced headphone output > XLR balanced output=RCA output

3. Digital Audio Input

① USB Audio Input

NEO S can be connected with PC, USB audio output device and mobile phone by using a USB Type-A to USB Type-B cable.

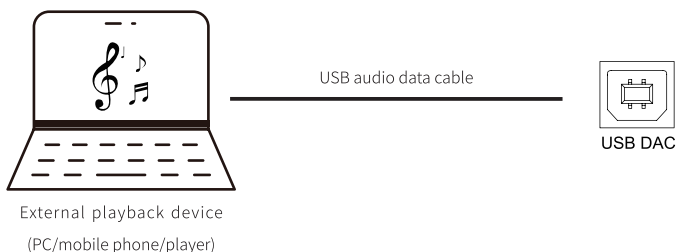
This connection method allows NEO S to be used as a high-performance pure DAC. The digital signal input by the external player has been decoded by ES9068 DAC decoding chip, so that it provides the best audio decoding performance.

* Corresponding setting

Settings > Source IN >



USB IN



Note:

* Drivers might be needed to be installed to support PC or external playback device to transmit audio to NEO S. For example, audio driver is needed to be installed for Windows on PC. Please download the driver on official website or contact technicians; No drivers are needed for Mac OS and Android.

* NEO S USB input supports up to stereo DSD512 24Bit, PCM 768KHz 32Bit and MQA. The actual playback specifications are affected by hardware equipment and software support.

② Coaxial/Optical and AES/EBU Audio Input

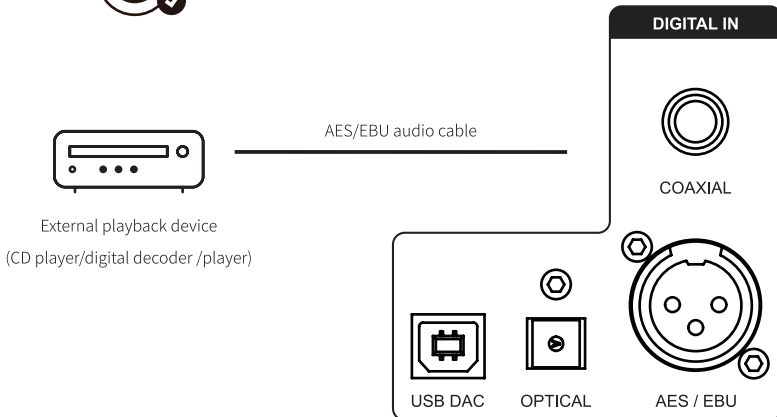
① Coaxial Audio Input

A 75 ohm coaxial cable is used to connect coaxial output port of a playback device to the digital coaxial port of NEO S, changing to optical cable if you connect to optical port. Please don't forget to switch audio source input setting to :



② AES/EBU Audio Input

A 75 ohm digital XLR audio cable is used to connect the AES/EBU output of a playback device to the AES/EBU balanced digital audio input port of NEO S. And it is needed to switch audio source input setting to:



③ Bluetooth Audio Input

The device has built in a CSR8675 flagship Bluetooth audio module, which supports SBC, AAC and other audio protocols. So that it can be used as a Bluetooth decoder to receive lossless Bluetooth audio signals from mobile devices.

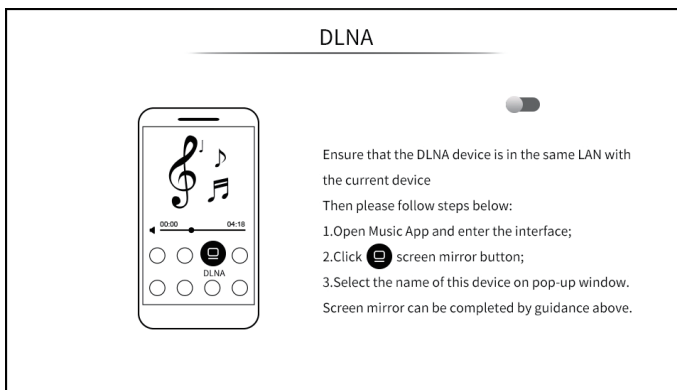


on the device and search Bluetooth device “NEO S” on mobile device to finish pairing.

4. Music Streaming

Multiple protocols are supported by NEO S. DLNA can push music from the mobile device to NEO S in the same LAN.

Turn on "Media Center——>DLNA" on NEO S display screen. Access app on mobile device with DLNA support, play music and cast screen to NEO S.



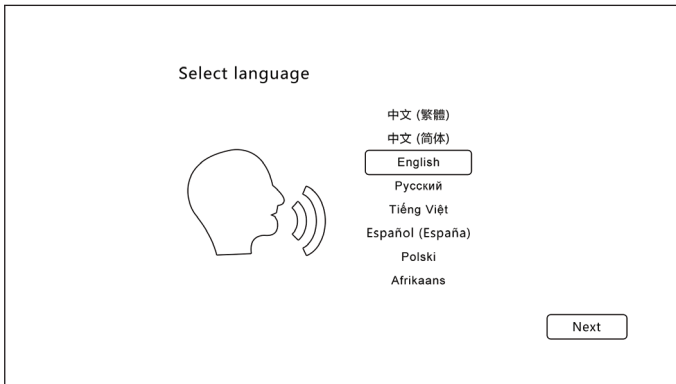
Boot and Initial Setup Wizard

NEO S will enter into initial setup wizard when it is booted for the first time, which will be displayed on large screen (display device) or small screen (NEO S OLED touch screen). If it is detected that NEO S has connected with display device by HDMI cable, initial setup wizard will show on large screen. Otherwise it will show on small screen. Please follow the system guidance to finish setting.

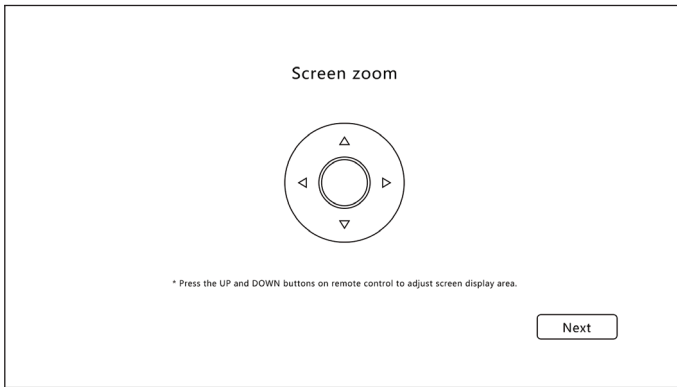
1. Initial Setup Wizard on Large Screen

① System language selection, screen zoom, time zone setting

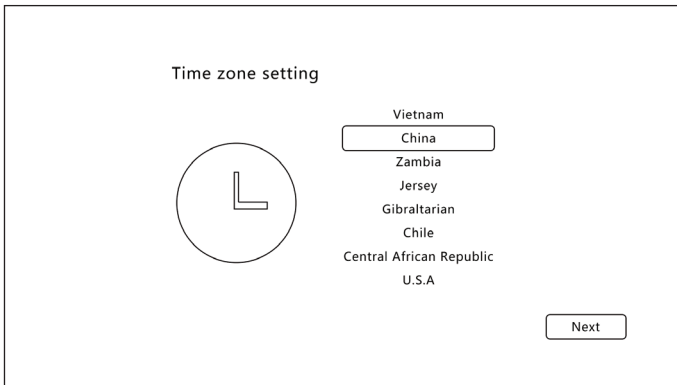
Choose the system language according to your language habit.



Press the UP and DOWN buttons on remote control to adjust screen display area.

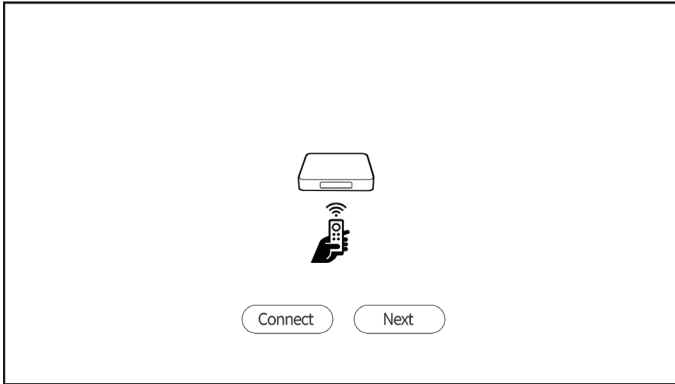


Select the time zone for the system according to your location.



② Bluetooth Match-Up

Let remote controller be aligned with media player and press Page-Down KEY and Menu KEY at the same time until indicator light blinking. The light will be off after matching successfully.

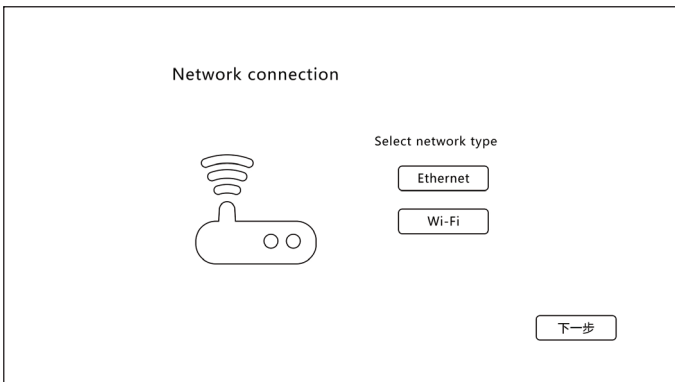


Note:

- * Make sure Bluetooth antenna is installed.
- * When large display device like TV connects with NEO S by HDMI cable, only large display screen can be controlled by the remote.

③ Network Setting

Configure network to connect device with network quickly.



4K UHD Hi-end Media player

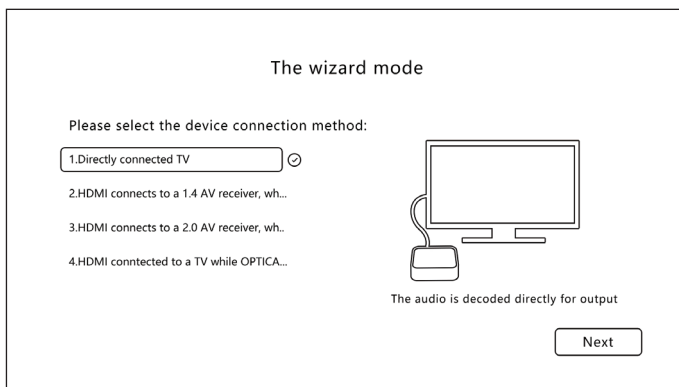
WI-FI: choose network SSID, input password and connect WIFI.

Ethernet: plug in the network cable to connect the network automatically.

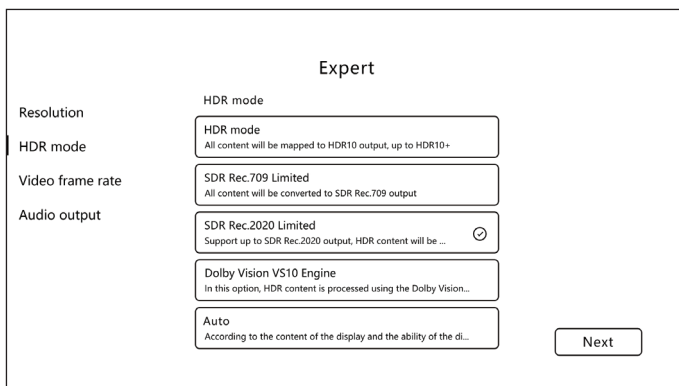
④ Select output mode

Please select the corresponding mode according to your needs, then it will finish relevant setting.

Wizard mode: select the corresponding option according to your usage environment and device connection.

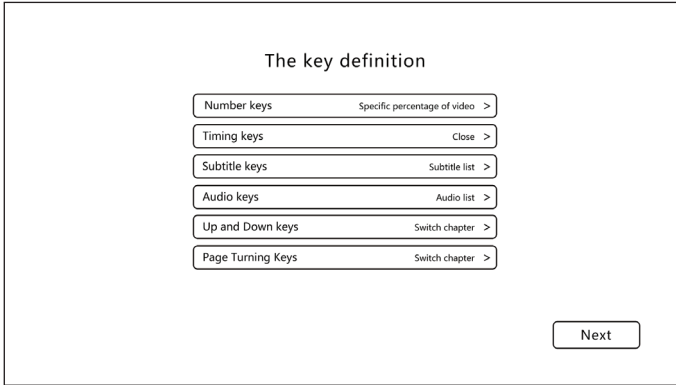


Expert mode: The audio and video output is customized by users, it is recommended for professionals.



⑤ The key definition

Define the corresponding functions for number keys, timing key, subtitle key, audio key, up and down keys and page keys on the remote control according to your usage habits.

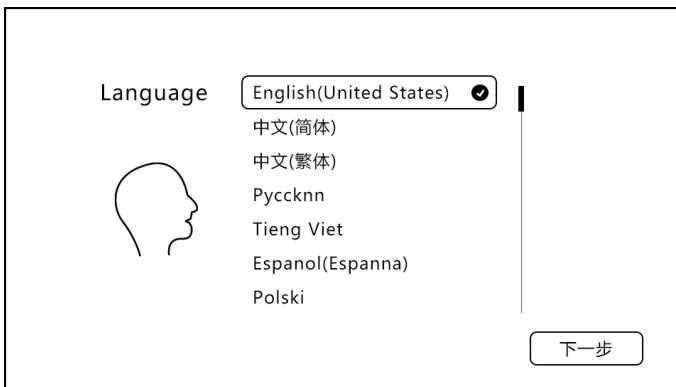


After completing settings above, please follow prompts and click "Next" to finish initial setup. Enjoy Zidoo audio visual feast!

2. Initial Setup Wizard on Small Screen

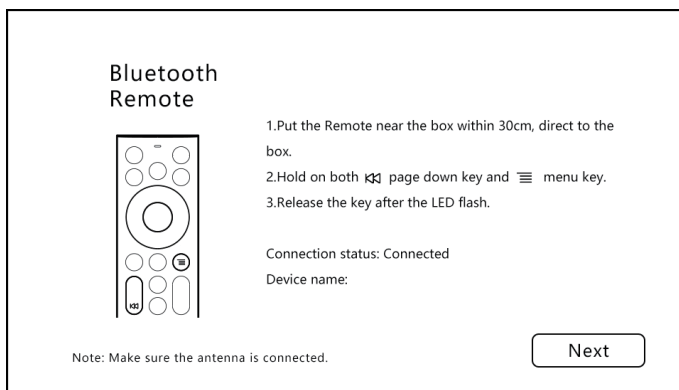
① System Language Selection

Select the system language according to your demand.



② Bluetooth Match-Up

Let remote controller be aligned with media player and press Page-Down KEY and Menu KEY at the same time until indicator light blinking. The light will be off after matching successfully.



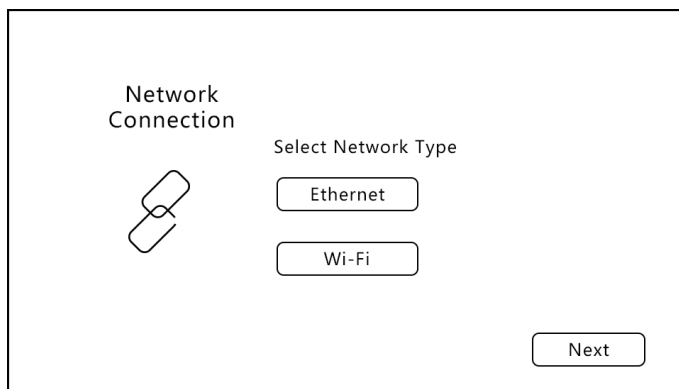
Note:

* Make sure Bluetooth antenna is installed.

* When no large display device like TV connects with NEO S, only OLED screen can be controlled by the remote.

③ Network Settings

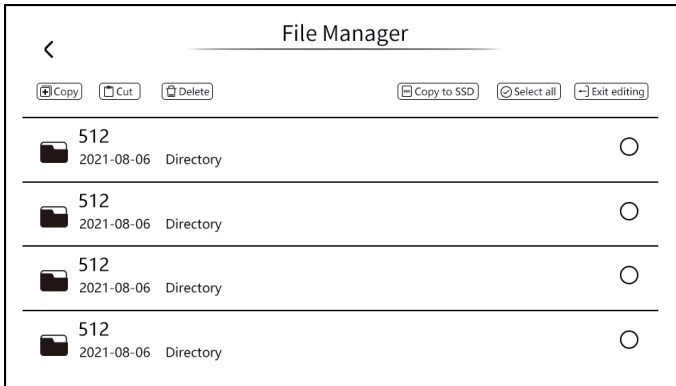
Choose Ethernet or WiFi to connect the device with network quickly.



File Manager

1. File Manager on Small Touch Screen

We can edit files on NEO S touch screen, copy files from external storage devices to internal SSD and copy/paste/cut/delete files in hard drive, USB storage device and network server.



1. Copy files from external storage device to internal SSD

Select the file directory in File Manager, choose "**Edit > Select all/one folder/one file**", then click "Copy to SSD".

2. Copy files between external storage device

Select the file directory in File Manager, choose "**Edit > Select all/one folder/one file**", click "Copy/Cut" then "Paste" in the targeted device directory.

3. Delete files

Select the file directory in File Manager, choose "**Edit > Select all/one folder/one file**", click "Delete" and confirm.

Notes:

* Files can only be pasted to network storage device with write permission.

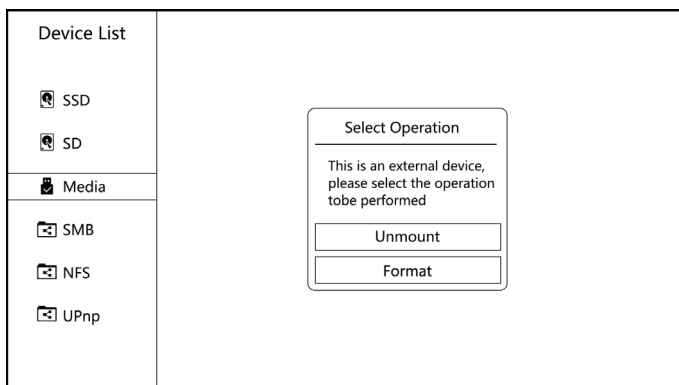
* Please be careful to delete files, data cannot be recovered once it is deleted.

2.File Manager on Large Display Screen

There are more functions in File Manager as follows when operating on large display screen:

1. Uninstall and format the hard disk

Press left arrow key in File Manager to choose storage device, then press the key again to uninstall or format hard drive.

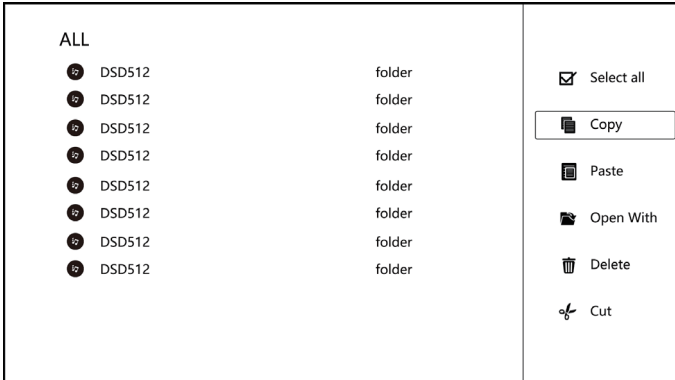


Uninstall: Uninstall the connected USB storage device.

Format: Format the USB storage device. Rename and format selection are supported.

2. Relevant file operation

Press "Menu" or "Right arrow" key on large screen to finish operations as below.



Select multiple/select all: select several files needed to be manipulated or edited

Copy: copy the selected file

Paste: paste the copied file

Play mode: select the playback mode, which is applied for third-party playback application

Delete: delete the selected file

Cut: cut the selected file

Favorite: put the selected file into my favorites

Refresh: refresh the current page

Rename: rename the selected file

New: create a new folder or file in the current directory

Viewport: set the view mode of file browsing

Settings: some advanced functions

Notes:

* Files can only be pasted /renamed /created to network storage device with write permission.

* Please be careful to delete and format files, data cannot be recovered once it is deleted.

Music Player

NEO S Music Player can play lossless music from internal SSD, external hard drive and NAS in same LAN. Music files are added across different devices to generate music library, so that music resources can be managed, collected, searched and played more intuitively and conveniently.

1.Adding Local Music Files

It is recommended to add files from USB stick, hard drive and network server at a time to Music Player.

①. Adding from small touch screen

Turn on the device, make sure network is connected, then access into the Home page > Music library > Folder > Add music directory > Select music stored device(hard drive or NFS/SMB network server) and find the path of music file > Click OK and wait for scanning.

* Long press the file directory can play, scan and remove file.

②. Adding from HDMI display screen

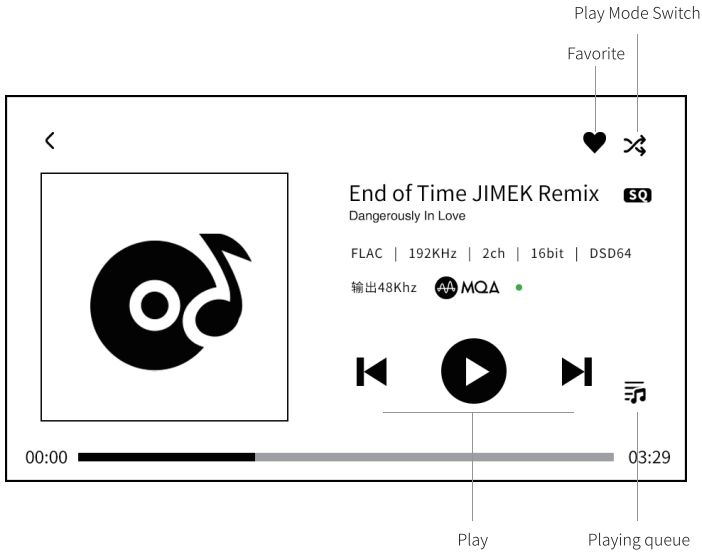
It is similar with operations on small touch screen, adding device and scanning music file for the first time according to the instruction on screen.

2.Music Playback

After adding and scanning music files, music will be displayed in music library in these categories: "Single", "Artist", "Album", and "Folder". Click the playback status icon in the upper right corner to enter into playback page.

3.Music Playback and Status Display

1.Music playback page can display album cover, song name, sampling specification, playback progress and control buttons.



①. Buttons description

Favorite: add the currently playing song to my favorites.

Control buttons: previous song/next song, pause/play

layback mode switching button: switch modes among list play, shuffle play, list cycle and single cycle.

Playing queue: check music playback order in the queue. For example, when playing songs from the artist category, the playing queue will include all songs in artist category.

②. My favorite music

① Add current-playing song to my favorites: click " " to add the current-playing song to my favorites.

② Add songs in categories into my favorites: long press songs in music list of artist, album and folder categories to add into my favorites.

③ Add songs in playing queue into my favorites: click the playing queue in music playback detailed page. click " " in the upper right corner to add all songs in playing queue into my favorites.

③. Create and add to playlist

① Create and add single to the playlist:

Long press a single song and select "Add to Playlist" in the pop up box > "Create Playlist" - > Enter the name of the new playlist, then select the single into the new playlist.

② Add to playlist in batch:

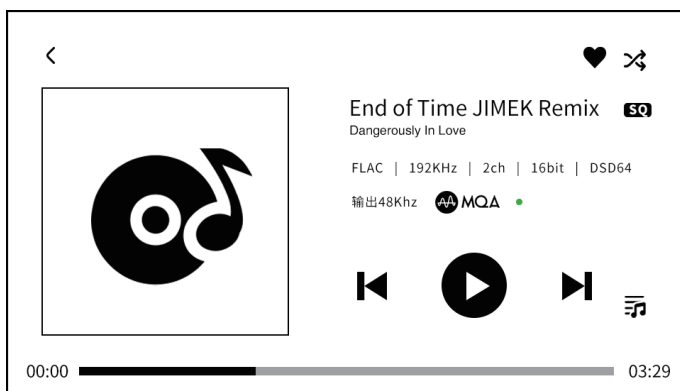
Click the playing queue in the top-right corner of music playback page. Click "add" icon, select all music in playing queue to playlist.

④ . MQA (Master Quality Authenticated)

The NEO S includes MQA technology, which enables you to play back MQA audio files and streams, delivering the sound of the original master recording. The NEO S LED glows green or blue to indicate that the unit is decoding and playing an MQA stream or file, and denotes provenance to ensure that the sound is identical to that of the source material. It glows blue to indicate it is playing an MQA Studio file, which has either been approved in the studio by the artist/producer or has been verified by the copyright owner.

● MQA

● MQA Studio



Smart Control

Users can control Zidoo media players by installing Zidoo Controller APP. File manager, applications, music player, poster wall and settings can all be controlled.

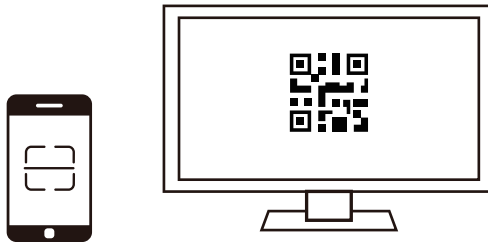
① Application Installation

Please find "**All APPs > Control Center**" on display device or "**Settings > Control Center**" on NEO S touch screen, then scan the QR code to download the APP. Zidoo Controller APP can be downloaded on iPhone by searching "Zidoo" in "Apple Store".

② Connection

After the APP is installed, please ensure devices are connected with network successfully and mobile device and Zidoo media player in same LAN. Then following steps below to add device:

Open Zidoo Controller APP and click "+" on the right-top corner then scan QR code in Media Center.



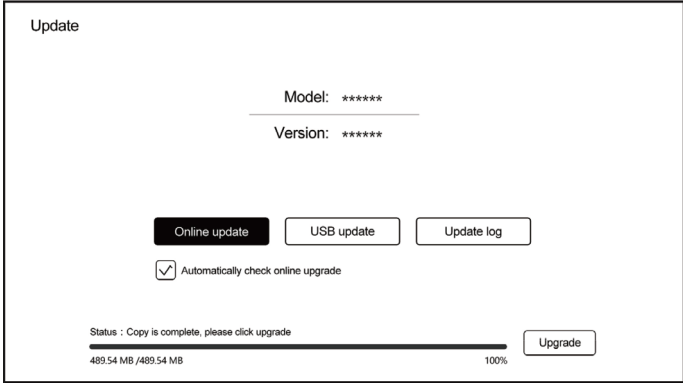
OTA Update

Zidoo will update firmware from time to time. After new firmware is released, it can be updated through the OTA to experience new functions. NEO S OTA update can be updated through large display screen or small NEO S OLED screen. Both online update and USB update are supported.

1.Update on Large Display Screen

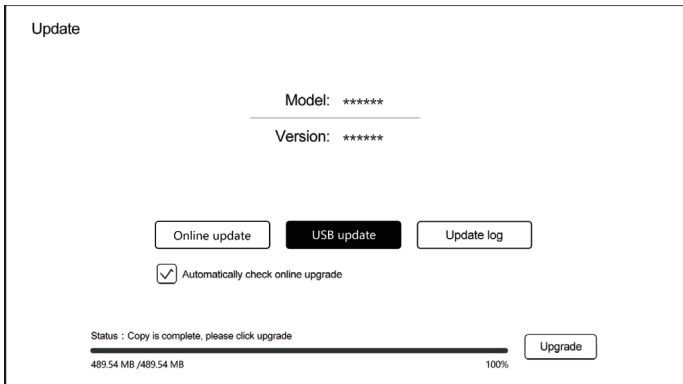
① Online Update

Click the "online update" option to obtain the latest firmware information through the network. Follow instructions to update and wait the device to restart automatically after the update is finished.



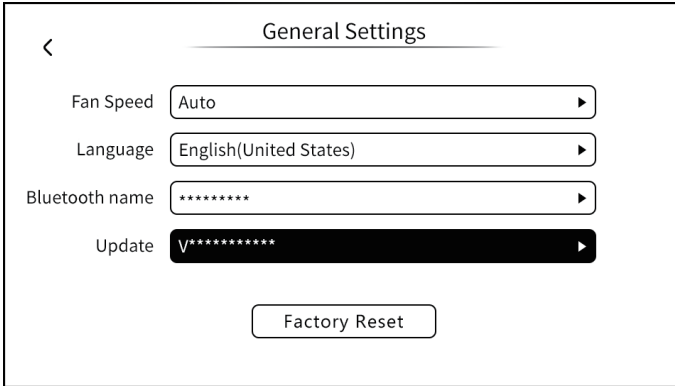
② USB Update

Download firmware from official website to a USB stick, insert the USB stick to the device, and then click "USB update" option. Follow instructions to update and wait the device to restart automatically after the update is finished.



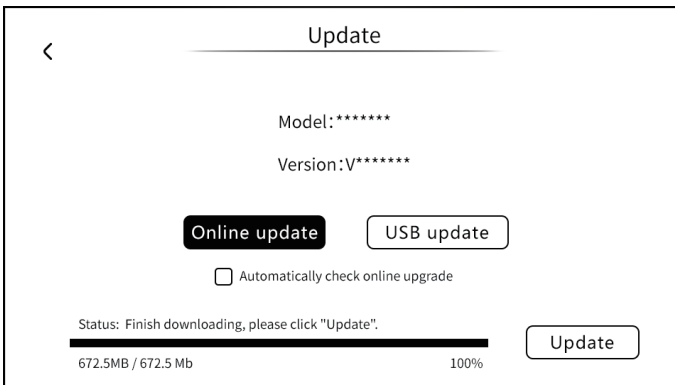
2.Update on NEO S OLED Screen

Firstly find "Settings > Generic Setting > Update " on NEO S OLED screen.



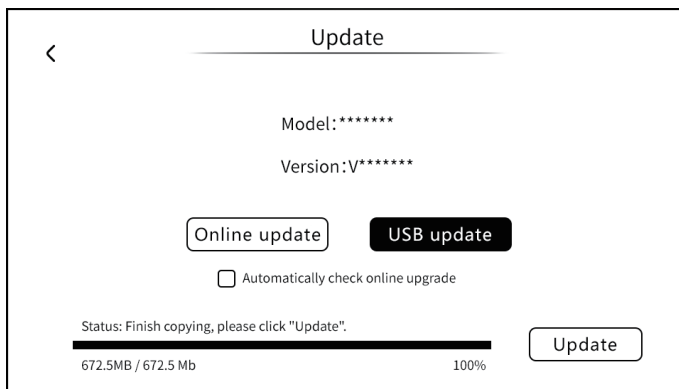
① Online Update

Click the "online update" option to obtain the latest firmware information through the network. Follow instructions to update and wait the device to restart automatically after the update is finished.



② USB Update

Download firmware from official website to a USB stick, insert the USB stick to the device, and then click "USB update" option. Follow instructions to update and wait the device to restart automatically after the update is finished.



Special Note:

In order to improve the user experience, Zidoo will update firmware from time to time. Therefore this product manual may differ from the actual setting menus of the product. Please download the latest version of product manual on Zidoo official website.

Safety Warning:

1. No water splashing or dripping, don't put objects with liquid like vase on the device.
2. The power plug and the power switch are used to disconnect power supply, which cannot be blocked by other objects.
3. It is Class I device, there must be grounding measures inside the box when using.



* Safe using below 2000m altitude.

Guarantee

保修卡

User File

用户信息

User name 用户姓名		Sex 性别	
Address 回寄地址			
Telephone 联系电话		Zip 邮编	
Commodity name and specification 产品名称		Model NO. 型号	
Fault description 故障说明			

Guarantee Item

保修条款

- (1) One year guarantee from date of purchased. (not including fittings)
- (2) All of damage by man-made(tear open the housing,tear off the sticker,unnormally using),or losing this card,we will not guarantee.
- (1) 保修期限：本产品遵循国家三包条例，商品存在非人为损坏所引起的硬件故障，本公司将提供一年保修服务（配件除外）。
- (2) 如需寄回本公司维修，请与此保修卡一同寄回。
- (3) 一切人为因素造成的损坏（包括擅自拆机，撕毁标签，自行刷机等等），本公司将不予保修。



QUALIFIED
CERTIFICATE
合格证

CHECKER/检验员 _____

DATE/日期 _____

