

简体中文 台式解码耳机功率放大器

接口说明
(图片仅供参考, 具体以实物为准)

菜单旋钮 红外接收端口 (请勿遮挡) 6.35mm 耳机输出 顶部指示灯 音量旋钮 4.4mm 平衡耳机输出 显示屏 旋转指示灯 平衡线路输出 同轴输入 光纤输入 蓝牙天线 AC 电源输入 AC 电源开关 单端线路输出 USB 输入* DC 电源输入 AC/DC 电源切换开关

操作说明
K13 R2R 支持 AC 和 DC 供电。当需要使用 AC 供电时, 请将 AC/DC 电源切换开关拨到 AC 位置, 并将 AC 电源打开, 接上电源线即可使用; 如外接 DC 供电, 请将 AC/DC 电源切换开关拨到 DC 位置, 并确保 DC 电源的输出电压为 12V, 输出电流 ≥ 2.5A。K13 R2R 开机状态下, 长按音量旋钮或使用红外遥控器均可控制 K13 R2R 进入关机状态; 而 K13 R2R 处于关机状态时, 短按音量旋钮或使用红外遥控器均可控制 K13 R2R 再次开机。

旋钮操作
● 音量旋钮: K13 R2R 开机后, 转动音量旋钮, 可调节音量大小。短按旋钮, 可以实现关屏/亮屏操作。长按旋钮, K13 R2R 关机; 关机后短按旋钮, K13 R2R 再次开机。
● 菜单旋钮: 切换工作模式: 在主界面状态下, 直接转动菜单旋钮即可进入工作模式菜单, 短按旋钮后可依次切换 USB IN/OPT IN/COAX IN/BT IN 四种工作模式, 短按至需要的模式时, 短按旋钮, 即可切换到相应工作模式并跳转回主界面。若不想切换其他模式, 长按旋钮可返回主界面。
● 设置菜单: 开机后在主界面状态下, 短按菜单旋钮, 即可进入设置菜单, 转动旋钮可切换设置项, 需要修改当前设置项时, 短按旋钮, 菜单显示设置项会有字符闪烁显示, 此时转动旋钮即可切换不同设置值, 然后短按旋钮确认, 此时设置生效, 且字符将不再闪烁。可以继续修改其他设置项内容, 在设置菜单下, 长按旋钮约 2 秒可返回主界面。在主界面下, 双击菜单旋钮可直接跳转输出切换界面, 实现快速切换输出功能。

主屏显示说明
增益图标 采样率显示 当前音量值

*注:
1. 后面板 USB 和前面板 USB 都可以用于 USB 解码, 两个 USB 同时插入设备时, 后面板 USB 优先, 后面板 USB 无效。
2. 单片机固件升级时, 请连接后面板 USB 口。

简体中文 台式解码耳机功率放大器

顶部指示灯 USB 输入*

*注:
1. 后面板 USB 和前面板 USB 都可以用于 USB 解码, 两个 USB 同时插入设备时, 后面板 USB 优先, 后面板 USB 无效。
2. 单片机固件升级时, 请连接后面板 USB 口。

简体中文 台式解码耳机功率放大器

操作说明
电源与开关机
K13 R2R 支持 AC 和 DC 供电。当需要使用 AC 供电时, 请将 AC/DC 电源切换开关拨到 AC 位置, 并将 AC 电源打开, 接上电源线即可使用; 如外接 DC 供电, 请将 AC/DC 电源切换开关拨到 DC 位置, 并确保 DC 电源的输出电压为 12V, 输出电流 ≥ 2.5A。K13 R2R 开机状态下, 长按音量旋钮或使用红外遥控器均可控制 K13 R2R 进入关机状态; 而 K13 R2R 处于关机状态时, 短按音量旋钮或使用红外遥控器均可控制 K13 R2R 再次开机。

旋钮操作
● 音量旋钮: K13 R2R 开机后, 转动音量旋钮, 可调节音量大小。短按旋钮, 可以实现关屏/亮屏操作。长按旋钮, K13 R2R 关机; 关机后短按旋钮, K13 R2R 再次开机。
● 菜单旋钮: 切换工作模式: 在主界面状态下, 直接转动菜单旋钮即可进入工作模式菜单, 短按旋钮后可依次切换 USB IN/OPT IN/COAX IN/BT IN 四种工作模式, 短按至需要的模式时, 短按旋钮, 即可切换到相应工作模式并跳转回主界面。若不想切换其他模式, 长按旋钮可返回主界面。
● 设置菜单: 开机后在主界面状态下, 短按菜单旋钮, 即可进入设置菜单, 转动旋钮可切换设置项, 需要修改当前设置项时, 短按旋钮, 菜单显示设置项会有字符闪烁显示, 此时转动旋钮即可切换不同设置值, 然后短按旋钮确认, 此时设置生效, 且字符将不再闪烁。可以继续修改其他设置项内容, 在设置菜单下, 长按旋钮约 2 秒可返回主界面。在主界面下, 双击菜单旋钮可直接跳转输出切换界面, 实现快速切换输出功能。

主屏显示说明
增益图标 采样率显示 当前音量值

*注: 状态栏显示图标意义:
PO: 前面板耳机输出; LO SE (PRE): 后面板线路输出且音量可调; LO: 后面板线路输出且音量不可调

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工作模式
K13 R2R 有以下 4 种工作模式, 分别为:
● USB: USB 解码模式, 可以连接手机或电脑解码工作。当 K13 R2R 两个 USB 口都插入设备时, 前面板的 USB 口优先, 后面板的 USB 口无效。连接手机解码时, K13 R2R 不会消耗手机电量。
(注: windows 系统电脑连接到 USB 解码模式时, 您需到官网下载 USB DAC 驱动, 并按照相应教程安装驱动后方可使用, 下载网址: http://www.fio.com/Driver_Download。OS 系统无需安装此驱动)
● OPT: 光纤解码模式, 可以连接光纤音频输出设备解码工作
● COAX: 同轴解码模式, 可以连接同轴输出设备解码工作
● BT: 蓝牙解码模式, 可以连接蓝牙耳机输出设备解码工作。首次切换到蓝牙接收模式时, K13 R2R 将自动进入配对状态, 此时 K13 R2R 屏幕上将显示 "PAIRING" 字样, 后续再次进入蓝牙接收模式时, 将自动回连上一次连接设备。
(注: K13 R2R 蓝牙耳机仅支持音频播放, 不支持通话功能)

设置菜单介绍

设置菜单	参数说明
OUT: 输出切换	PO: 前面板耳机输出, 音量可调 PRE: 后面板线路输出, 音量可调 LO: 后面板线路输出, 固定最大音量输出
GAIN: 增益	H: 高增益 M: 中增益 L: 低增益
SAM: 过采样设置	OS: 打开过采样 NOS: 关闭过采样
EQ: 均衡器	可切换设置均衡器为关闭或其他均衡器效果
bAL: 声道平衡	可设置在左右声道输出音量大小
UAC: USB 工作模式	1: UAC1.0 2: UAC2.0

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红外遥控器说明

电源键 OPT 模式 音量+ 上一 EQ 音量- 下一 EQ PO 输出 熄屏/唤醒

→ USB 模式
→ BT 模式
→ COAX 模式
→ 静音
→ T-EQ
→ LOM 输出
→ PRE 输出
→ 指示灯亮/灭

注意: 遥控器请使用 2 节 7 号 (AAA) 电池

均衡器使用
K13 R2R 支持均衡器调节功能, 可以通过电脑系统或手机端 APP 调节均衡器。电脑端在使用均衡器时, 需要用 USB 线将 K13 R2R USB 接口连接到电脑, 同时在设置菜单中将 EQ 设置为非关闭状态 (即将 EQ 设置为 OFF 之外的其他选项), 然后前往链接 <https://fiocontrol.fio.com> 点击 "连接" 选择 K13 R2R, 点击连接, 即可进行 EQ 调整。手机端需要安装均衡器功能时, 请扫描 FIO Control APP 二维码, 下载相应 APP 使用即可。

简体中文 台式解码耳机功率放大器

红外遥控器说明

电源键 OPT 模式 音量+ 上一 EQ 音量- 下一 EQ PO 输出 熄屏/唤醒

→ USB 模式
→ BT 模式
→ COAX 模式
→ 静音
→ T-EQ
→ LOM 输出
→ PRE 输出
→ 指示灯亮/灭

注意: 遥控器请使用 2 节 7 号 (AAA) 电池

注意事项
★ 当系统出现异常时, 请尝试重新开关机或拔掉电源即可恢复正常使用。
★ 按键和音量调节适当的音量 (线性输出音量可调), 以防音量过大对您听力造成伤害。
★ 连接耳机前建议不要佩戴耳机, 以防有可能会产生较大的瞬间冲击声对您听力造成伤害。
★ 当您正在使用耳机时, 会因此听不清外界环境声音, 为了您的人身安全, 请避免在危险的环境使用耳机。
★ 本设备内有高压危险, 不可自行维修、拆卸或将产品放在有水的地方。

简体中文 台式解码耳机功率放大器

包装内物品清单 (请核对包装内是否包含以下物品)

- K13 R2R 主机
- 耳机转接头
- 红外遥控器
- 快速入门
- 电源线
- 售后维修卡
- USB 数据线

了解更多
● 有关 K13 R2R 的相关故障说明和常见问题解答 (FAQ), 请扫描 K13 R2R FAQ 二维码。
● 了解产品更多信息, 请访问: www.fio.com

产品名称: 台式解码耳机功率放大器
产品型号: F3082K
显示屏: X
电芯: X
外观: X
配件: X

产品标准: GB4943.1-2022
制造商: 广州飞傲电子科技有限公司
地址: 广州市白云区龙归街道夏良龙良路 21 号

由于产品不断改进, 各项规格及设计随时更改, 恕不另行通知

简体中文 台式解码耳机功率放大器

环保材料说明

产品中有毒物质的名称及含量

部件名称	有害物质					
	铅 (Pb)	汞 (Hg)	铜 (Cu)	六价铬 (Cr VI)	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
PCB	X	○	○	○	○	○
PCBA 焊点	X	○	○	○	○	○
元器件	X	○	○	○	○	○
显示屏*	X	○	○	○	○	○
电芯*	X	○	○	○	○	○
外线件	○	○	○	○	○	○
配件*	X	○	○	○	○	○

注: 表中带 "X" 的部件, 属全球技术法规水平限制而无法实现有害物质替代, 带 "○" 的部件表示有害物质在您的购买的产品中无法检测, 请忽略表中该部件信息。
○: 表示该有害物质在该部件所有均质材料中的含量均符合 GB/T 26572-2011 规定的限量要求。
X: 表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572-2011 规定的限量要求。

根据中国电子行业标准 SJ/T 11364-2014 和相关的中国法律法规, 本产品及其某些内部或外部组件上可能带有环保使用期限标识, 取决于组件和组件制造, 产品及其组件上的使用期限标识可能有所不同, 组件上的使用期限标识仅表示产品在符合与之和冲突的或不冲突的环保使用期限标识。
◎ 此环保使用期限标识适用于产品在规定的条件下工作

English Desktop DAC and Headphone Amplifier

Buttons and ports labeled (Pictures are for reference only. The actual product may vary.)

Menu knob 红外接收端口 (please do not cover it) 6.35mm headphone out 顶部指示灯 音量旋钮 4.4mm balanced headphone out 显示屏 旋钮指示灯 平衡线路输出 同轴输入 光纤输入 蓝牙天线 AC 电源输入 AC 电源开关 单端线路输出 USB 输入* DC 电源输入 AC/DC 电源切换开关

English Desktop DAC and Headphone Amplifier

顶部指示灯 USB 输入*

*Notes:
1. Both the rear and side USB ports can be used for USB decoding. If the two USB ports are connected simultaneously, the side one will prevail, and the rear one will be disabled.
2. When upgrading the Microcontroller Unit (MCU) firmware, please use the side USB port.

English Desktop DAC and Headphone Amplifier

Operation explained
Power supply and power on/off
The K13 R2R supports both AC and DC power supplies. When powered by AC, set the AC/DC power switch to the AC position, turn on the AC power supply, and connect the power cable for use. For external DC power supply, set the AC/DC power switch to the DC position, and ensure the DC power supply provides an output voltage of 12V and an output current of ≥ 2.5A. When the K13 R2R is powered on, long press the volume knob or use the infrared remote control to turn it off. When the K13 R2R is powered off, briefly press the volume knob or use the infrared remote control to turn it on.

Volume and menu knobs operation
● **Volume knob**
Turn on the K13 R2R. Rotate the volume knob to adjust the volume, short press to turn off/wake up the screen, and long press to turn off the device. When it is off, short press the volume knob to turn on the device.
● **Menu knob**
● Switch working mode: On the homepage, rotate the menu knob to enter the working mode menu. Rotate the knob to successively switch between USB IN, OPT IN, COAX IN and BT IN. After selecting the desired mode, short press the knob to complete the switch and return to the homepage. If you do not wish to switch modes, hold the knob to return to the homepage.
● Settings menu: On the homepage, short press the menu knob to enter the Settings menu. Rotate the knob to switch between different settings. When the current setting needs to be changed, short press the knob, and there will be flashing characters showing up on the menu. At this time, rotate the knob to switch between different settings, and short press the knob to confirm the setting. Then, the new setting will take effect with no character flashing anymore. Other settings can still be changed. On the Settings menu, hold the menu knob for about 2s to return to the homepage.
On the homepage, double press the menu knob can directly jump to the output switching page, achieving the function of quickly switching output.
Audio format icon Output icon*

*注: 状态栏显示图标意义:
PO: 前面板耳机输出; LO SE (PRE): 后面板线路输出且音量可调; LO: 后面板线路输出且音量不可调

English Desktop DAC and Headphone Amplifier

*Note: The output icon meaning on the status bar is as follows:
PO: Front panel headphone output, LO SE (PRE): Rear panel line output with adjustable volume;
LO: Rear panel line output with nonadjustable volume.

Working mode
The K13 R2R has 4 working modes, explained as follows:
● USB: USB decoding, connect to mobile phones or computers. If the two USB ports on the side and rear panels are connected, the side one will prevail, and the rear one will be disabled. When connecting to a mobile phone, the K13 R2R will not consume its power.
(Note: You would need to install the USB DAC driver when connecting the K13 R2R to a Windows computer for USB decoding. Please download the USB DAC driver on our website https://www.fio.com/Driver_Download and follow relevant instructions to install it. For macOS, it runs driver-free.)
● OPT: Optical decoding, connect to devices with an optical output.
● COAX: Coaxial decoding, connect to devices with a coaxial output.
● BT: Bluetooth decoding, connect to devices that support Bluetooth output. When switched to the Bluetooth receiving mode for the first time, the K13 R2R will automatically enter the pairing state. At this time, the screen of the K13 R2R will display "PAIRING". In later uses when entering the Bluetooth receiving mode, the K13 R2R will automatically reconnect to the last connected device.
(Note: The Bluetooth mode of the K13 R2R only supports audio playback, but not voice calls.)

Introduction to settings menu

Settings menu	Introduction
OUT: Switch output	PO: Front panel headphone output, adjustable volume PRE: Rear panel line output, adjustable volume LO: Rear panel line output, fixed at maximum volume
GAIN	H: High Gain M: Medium Gain L: Low Gain

English Desktop DAC and Headphone Amplifier

SAM: Oversampling settings	OS: Enable oversampling	NOS: Disable oversampling
EQ: Equalizer	Turn off the equalizer or switch to other effects	
bAL: Channel balance	Adjust the balance between the left and right channels	
UAC: USB working mode	1: UAC1.0 2: UAC2.0	
LCD-B: Display brightness	1-3 levels adjustable	
LCD-T: Screen timeout	1/2/5/10/30 minutes adjustable, "0" means constantly on	
RGB1b: Top RGB indicator brightness adjustment	0/1/2/3/4/5 (0 means disabling RGB indicator, and 1-5 each means different brightness levels)	
RGB2b: Knob RGB indicator brightness adjustment	0/1/2/3/4/5 (0 means disabling RGB indicator, and 1-5 each means different brightness levels)	
SLEEP: Power-off timer	0-99 (0 means disabling power-off timer, and 1-99 each means the time when the scheduled shutdown takes effect (time unit: minute))	
UPDATE: Microcontroller Unit (MCU) firmware update	Short press the volume knob to enter the menu. Select "Y" (yes) on the "Y/N" menu to enter the firmware update mode	
RESET: Factory reset	Short press the volume knob to enter the menu. Select "Y" (yes) on the "Y/N" menu to factory reset the K13 R2R	
FW Vxxx	Indicates Microcontroller Unit (MCU) firmware version	
BT Vxxx	Bluetooth firmware version	
RETURN	Return to the homepage	

English Desktop DAC and Headphone Amplifier

Equalizer introduction
The K13 R2R supports the equalizer tuning function, which can be adjusted through the connected computer or mobile phone. When using the equalizer on a computer, please use a USB cable to connect the K13 R2R to the computer. Meanwhile, set the EQ to a non-off state in the settings menu (i.e., select any option other than OFF for the EQ). Visit http://www.fio.com/Driver_Download, and click "Connect" to connect the computer to the K13 R2R for EQ settings. When using the equalizer on a mobile phone, please scan the QR code of the FIO Control app and download the corresponding app version to use it.

IR remote control explanation

Power button OPT 模式 音量+ 上一 EQ 音量- 下一 EQ PO 输出 熄屏/唤醒

→ USB 模式
→ BT 模式
→ COAX 模式
→ 静音
→ Next EQ
→ Mute
→ LO
→ PRE out
→ Indicator light on/off

Note: Please use two AAA batteries for the remote control.

English Desktop DAC and Headphone Amplifier

Notes and precautions
★ In case of system errors, please try to either turn the K13 R2R off and on, or unplug and replug the power cable to restore it to a normal state.
★ Please adjust the volume (adjustable volume at line out) to a suitable level before wearing headphones so as to protect your hearing.
★ Please do not wear headphones when plugging in or unplugging the headphones in case there may be a sudden impulse noise damaging your hearing.
★ You may be unable to hear the sounds around you when wearing headphones. For your safety, it is not recommended to use headphones in dangerous environments.
★ The K13 R2R has a high voltage hazard. Please do not repair or disassemble the product on your own and please keep it away from water.

List of items included (please check if the following items are included)
● K13 R2R
● Headphone adapter
● IR remote control
● Quick start guide
● Power cable
● Warranty card
● USB cable

To learn more
● For related video instructions of the K13 R2R and FAQ (Frequently Asked Questions), please scan the QR code below.
● To learn more about the product, please visit our website: www.fio.com

Due to continuous improvement, every specification and design is subject to change at any time without further notice.

WEEE Directive & Product Disposal
At the end of its serviceable life, this product should not be handed as household or general waste. It should be handed over to the applicable collection point for the recycling of electrical and electronic equipment, or returned to the supplier for disposal.

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Hereby, Guangzhou FIO Electronics Technology Co., Ltd. declares that this device is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at: www.fio.com/doc

Function	Frequency	Maximum output power
Bluetooth	2402-2480MHz	7dBm

FCC NOTICE:
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.
The equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. The equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.
Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.