



## HP800V2 八路高功率耳机放大器 HP800V2 8-CHANNEL HEADPHONE AMPLIFIER

用户手册

Owner's Manual

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# PLEASE READ CAREFULLY BEFORE PROCEEDING

\* Please keep this manual in a safe place for future reference.

## WARNING

Always follow the basic precautions listed below to avoid the possibility of serious injury or even death from electrical shock, short-circuiting, damages, fire or other hazards. These precautions include, but are not limited to, the following:

### Power supply/Power cord

- Only use the voltage specified as correct for the device. The required voltage is printed on the name plate of the device.
- Use only the included power cord.
- Do not place the power cord near heat sources such as heaters or radiators, and do not excessively bend or otherwise damage the cord, place heavy objects on it, or place it in a position where anyone could walk on, trip over, or roll anything over it.

### Do not open

- Do not open the device or attempt to disassemble the internal parts or modify them in any way. The device contains no user-serviceable parts. If it should appear to be malfunctioning, discontinue use immediately and have it inspected by qualified ALCTRON service personnel.

### Water warning

- Do not expose the device to rain, use it near water or in damp or wet conditions, or place containers on it containing liquids which might spill into any openings.
- Never insert or remove an electric plug with wet hands.

### If you notice any abnormality

- If the power cord or plug becomes frayed or damaged, or if there is a sudden loss of sound during use of the device, or if any unusual smells or smoke should appear to be caused by it, immediately turn off the power switch, disconnect the electric plug from the outlet, and have the device inspected by qualified ALCTRON service personnel.
- If this device should be dropped or damaged, immediately turn off the power switch, disconnect the electric plug from the outlet, and have the device inspected by qualified ALCTRON service personnel.

## CAUTION

Always follow the basic precautions listed below to avoid the possibility of physical injury to you or others, or damage to the device or other property. These precautions include, but are not limited to, the following:

### Power supply/Power cord

- Remove the electric plug from the outlet when the device is not to be used for extended periods of time, or during electrical storms.
- When removing the electric plug from the device or an outlet, always hold the plug itself and not the cord. Pulling by the cord can damage it.

### Location

- Before moving the device, remove all connected cables.
- Do not expose the device to excessive dust or vibrations, or extreme cold or heat (such as in direct sunlight, near a heater, or in a car during the day) to prevent the possibility of panel disfiguration or damage to the internal components.
- Do not place the device in an unstable position where it might accidentally fall over.
- Do not use the device in the vicinity of a TV, radio, stereo equipment, mobile phone, or other electric devices. Otherwise, the device, TV, or radio may generate noise.

### Water warning

- Before connecting the device to other devices, turn off the power for all devices. Before turning the power on or off for all devices, set all volume levels to minimum.

### Handling caution

- Do not insert your fingers or hand in any gaps or openings on the device.
- Avoid inserting or dropping foreign objects (paper, plastic, metal, etc.) into any gaps or openings on the device. If this happens, turn off the power immediately and unplug the power cord from the AC outlet. Then have the device inspected by qualified ALCTRON service personnel.
- Do not rest your weight on the device or place heavy objects on it, and avoid use of excessive force on the buttons, switches or connectors.

# INTRODUCTION



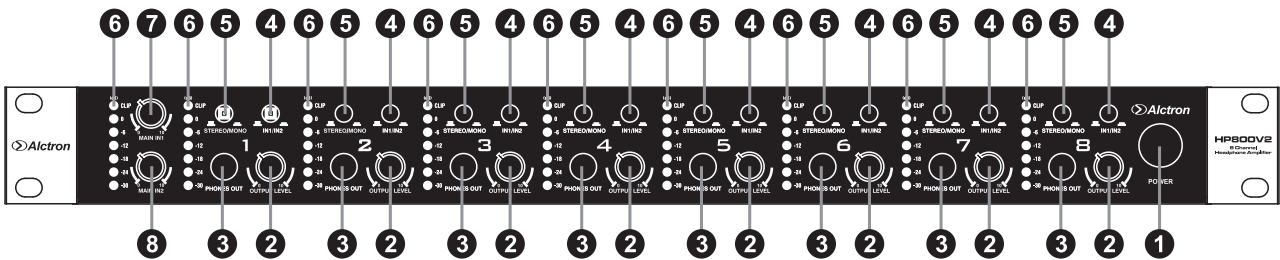
HP800V2 is a headphone amplifier which features 8 independent stereo headphone channels. Each channel has its own volume control knob, adjusting the volume when it is too high or too low. The 7-level indicator indicates the output level, if the red light lit, you should lower the volume to avoid distortion. Also the Mono/stereo and channel choose button help you to monitor an ideal music sound you wanted.

# FEATURES

- \* 8 stereo headphone channels in a convenient single rack package-enables multiple signal distribution options for monitoring flexibility.
- \* Each channel has separate volume control and 1/4" stereo outputs.
- \* Over 500mW of power per channel with full spectrum audio response and maximum headroom (even at high volume headphone levels).
- \* No-compromise circuit design, SMD technology and low-noise op-amps for reference-quality, transparent audio with maximum headroom even at high headphone volume levels.
- \* HP800V2 has two pairs input connector, each connector has IN1/IN2 switch for you to choose input channel 1 or channel 2.
- \* Mono/Stereo selector switch for each set of inputs.
- \* High quality, rugged 1U construction.
- \* Shielded internal power supply with 115V(60Hz)/230V(50Hz) select switch and fused IEC power cord connector.

# FRONT & REAR CONNECTIONS

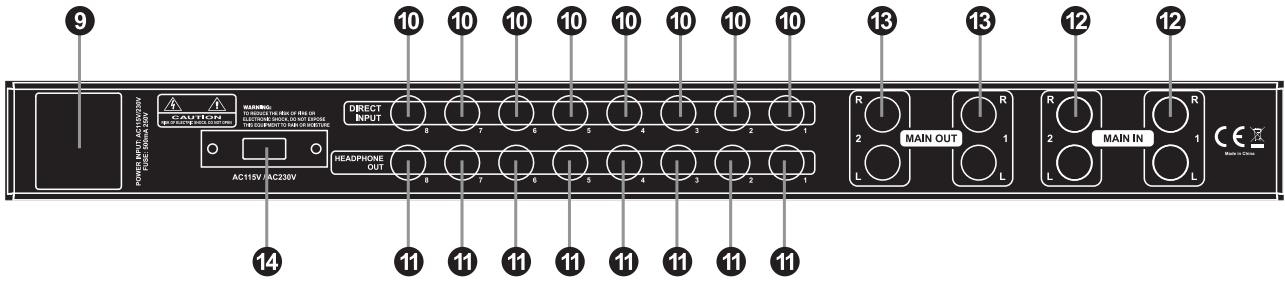
## FRONT PANEL



1. POWER: turns on and off the device. The power LED will illuminate when powered.
2. OUTPUT LEVEL: each output channel features a rotary volume pot for variable adjustment of the desired output level.
3. PHONE OUT: stereo headphone output connector, all eight outputs can be used simultaneously.
4. IN1/IN2: channel choose button, press the button, choosing MAIN IN 2; without press the button, choosing MAIN IN 1.
5. STEREO/MONO: press the button, monitoring MONO sound; without press the button, monitoring STEREO sound, MONO mode: when only input the signal into R, R and L both have signal output; when only input the signal into L, only L has signal output. STEREO mode: when only input the signal into R, only R has signal output; when only input the signal into L, only L has signal output.
6. CLIP/0/-6/-12/-18/-24/-30: the 7-digit output level display informs you about signal level of each individual channel and displays it in the range between -30dB and 0dB. When the clip LED lights up, lower the amount of gain applied to the individual channels to avoid distortion.
7. MAIN IN 1: MAIN IN 1 channel's volume control, also control the 1-8 channels' input level.
8. MAIN IN 2: MAIN IN 2 channel's volume control, also control the 1-8 channels' input level.



# REAR PANEL



9. POWER INPUT: connect the supplied AC power cord to this IEC jack.

10. DIRECT INPUT: the direct in socket is used to feed in additional stereo signals, when input the signal into DIRECT INPUT and MAIN IN connectors at the same time, input the DIRECT INPUT signal first, at that time you can not monitor the MAIN IN signal sound.

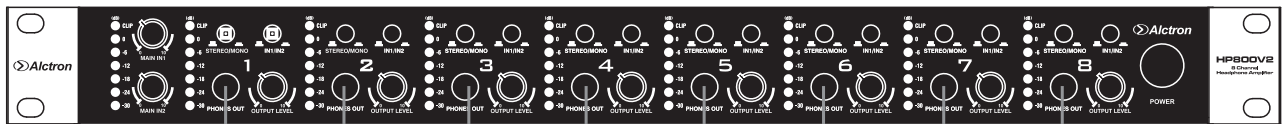
11. HEADPHONE OUT: the headphone out connectors of the individual amp sections are also used for connecting headphones, it features two additional headphones connectors per channel located on the rear.

12. MAIN IN: the main in connectors come as balanced 1/4" TRS connectors. If only input signal to MAIN 1 L, all output connector only L channel produce the sound. If only input signal to MAIN 1 R, all output connector only R channel produce the sound. MAIN IN 2 is the same, when only input the signal into MAIN IN 1, press the IN1/IN2 button, no sound.

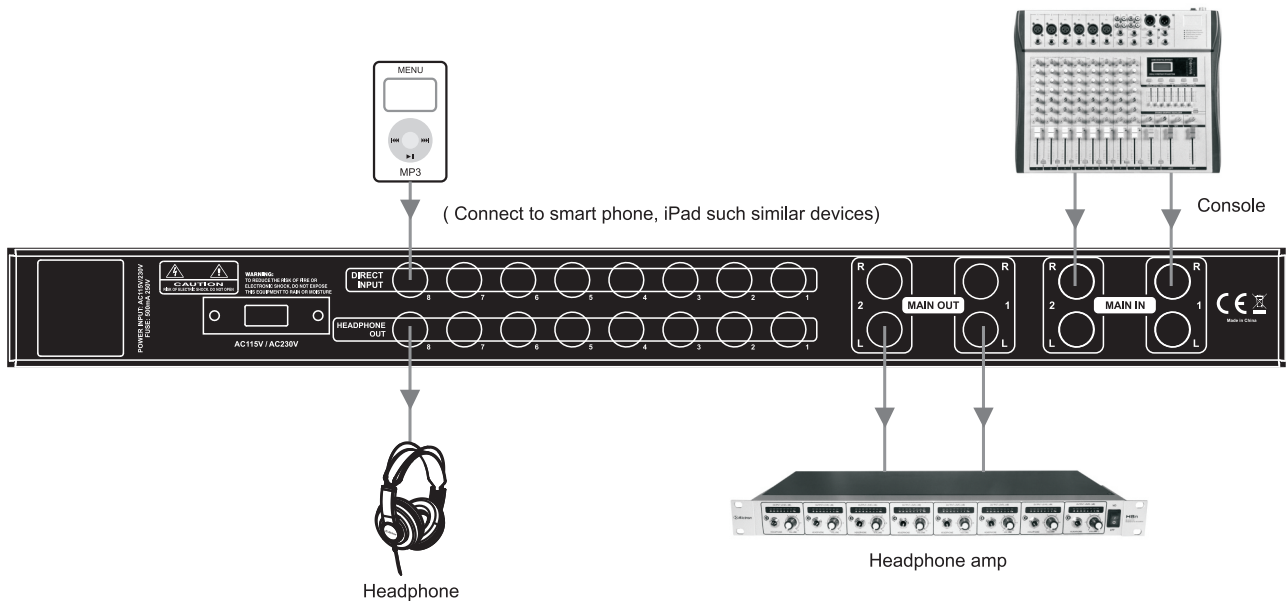
13. MAIN OUT: using 1/4" connector to link additional headphone amp.

14. AC115V/AC230V: allows for switching voltage between 115V and 230V.

# AUDIO CONNECTION



Headphone Headphone Headphone Headphone Headphone Headphone Headphone Headphone



# SPECIFICATIONS

## Audio input

- \*Main input: 1/4"TRS balance connector
- \*Input impedance: 40K $\Omega$ (balance)/ 20K $\Omega$ (unbalance)
- \*Max input level: 16dBu
- \*CMRR: >55dB@1KHz
- \*Aux input: 1/4"TRS stereo connector
- \*Input impedance: 15K $\Omega$

## Audio output

- \*Main output: 1/4"TRS balance connector
- \*Headphone output: 1/4"TRS stereo connector

## Amp

- \*Max output amp: +24dBm(load impedance 100 $\Omega$ )/ +21dBm(load impedance 80 $\Omega$ )
- \*Min load impedance: 8 $\Omega$

## Basic specification

- \*Frequency response: 10Hz-80KHz +/-2dB
- \*Noise: 22Hz-22KHz >90dB@0dBu
- \*Dynamic range: 22Hz-22KHz 110dB
- \*Distortion: 0.006% typically, @+4dBu 1KHz

## Function

- \*Main input 1/main input 2: switch can choose Main input 1 or main input 2
- \*Stereo/mono: press the button, monitor mono sound

## Displays

- \*Input level: 7-digital LED display: -30/-24/-18/-12/-6/0dB
- \*Output level: 7-digital LED display: -30/-24/-18/-12/-6/0dB

## Power

- \*Voltage: 100-120V AC, 200-240V AC, 50-60HZ optional
- \*Connection cable: standard IEC

# SERVICE

**If your HP800 V2 8 Channel Headphone Amplifier needs servicing, follow these instructions.**

1. Ensure the problem is not related to operation error or external system devices.
2. Keep this owner's manual. We don't need it to repair the unit.
3. Pack the unit in its original packaging including end card and box. This is very important. If you have lost the packaging, please make sure you have packed the unit properly. ALCTRON is not responsible for any damage that occurs due to non-factory packing.
4. Ship to the ALCTRON tech support center or the local return authorization.

请在操作试用前，首先仔细阅读下述内容

\*请将本说明书存放在安全的地方，以便将来随时参阅



## 警告

为了避免因触电、短路、损伤、火灾或其它危险可能导致的严重受伤甚至死亡，请务必遵守下列基本注意事项。这些注意事项包括但不限于下列情况：

### 电源/电源线

- 只能使用本设备所规定的额定电压。所要求的电压被印在本设备的铭牌上。
- 只能使用附带的电源线。
- 请勿将电源线放在热源如加热器或散热器附近，不要过分弯折或损伤电源线，不要在其上加压重物，不要将其放在可能被踩踏引起绊倒或可能被碾压的地方。

### 当意识到任何异常情况时

- 若电源线出现磨损或损坏，使用设备过程中声音突然中断或因此而发出异常气味或冒烟，请立即关闭电源开关，从电源插座中拔出电源线插头，并请有资格的爱克创维修人员对设备进行检修。
- 若本设备发生摔落或损坏，请立即关闭电源开关，从电源插座中拔出电源线插头，并请有资格的爱克创维修人员对设备进行检修。

### 关于潮湿的警告

- 请勿让本设备淋雨或在水附近及潮湿环境中使用，或将盛有液体的容器放在其上，否则可能会导致液体溅入任何开口。如果任何液体如水渗入本设备，请立即切断电源并从AC电源插座拔下电源线。然后请有资格的爱克创维修人员对设备进行检修。
- 切勿用湿手插拔电源线插头口

### 请勿打开

- 请勿打开本设备并试图拆卸其内部零件或进行任何方式的改造。本设备不含任何用户可自行修理的零件。若出现异常，请立即停止使用，并请有资格的爱克创维修人员进行检修。



## 小心

为了避免您或周围他人可能发生的人身伤害、设备或财产损失，请务必遵守下列基本注意事项。这些注意事项包括但不限于下列情况：

### 电源/电源线

- 当准备长期不使用本设备或发生雷电时，请从电源插座中拔出电源线插头。
- 当从本设备或电源插座中拔出电源线插头时，请务必抓住插头而不是电源线。直接拽拉电源线可能会导致损坏。

### 安放位置

- 移动本设备之前，请先拔出所有连接的电缆。
- 为了避免操作面板发生变形或损坏内部组件，请勿将本设备放在有大量灰尘、震动、极端寒冷或炎热(如阳光直射，靠近加热器或烈日下的汽车里)的环境中。
- 请勿将本设备放在不稳定的地方，否则可能会导致突然翻倒。
- 请勿在电视机、收音机，立体声设备，手机或其他电子设备附近使用本设备。否则，本设备、电视机或收音机可能会产生噪音。

### 连接

- 将本设备连接到其它设备之前，请关闭所有设备的电源开关。在打开或关闭所有设备的电源开关之前，请将所有音量都调到最小。

### 小心操作

- 请勿将手指或手插入本设备的任何间隙或开口。
- 请避免在设备上的任何间隙或开口插入或落进异物(纸张、塑料、金属等)。万一发生这种情况，请立即关闭电源开关，从AC电源插座中拔出电源插头。然后请有资格的爱克创维修人员进行检修。
- 请勿将身体压在本设备上或在其上放置重物，操作按钮，开关或插口时要避免过分用力。

经常动态接触的零部件，如开关、控制旋钮、接口等，随着时间的推移，其性能会逐渐下降。请让有资格的爱克创维修服务人员为您更换有缺陷的零部件。

当不使用本设备时，请务必关闭其电源。

XLR型插口应按下图所示进行布线(IEC60268标准)：针1：地线，针2：热线(+)和针3：冷线(-)。

对于由于不正常使用或擅自改造本设备所造成的损失、数据丢失或破坏，爱克创 不负任何责任。

## 产品介绍



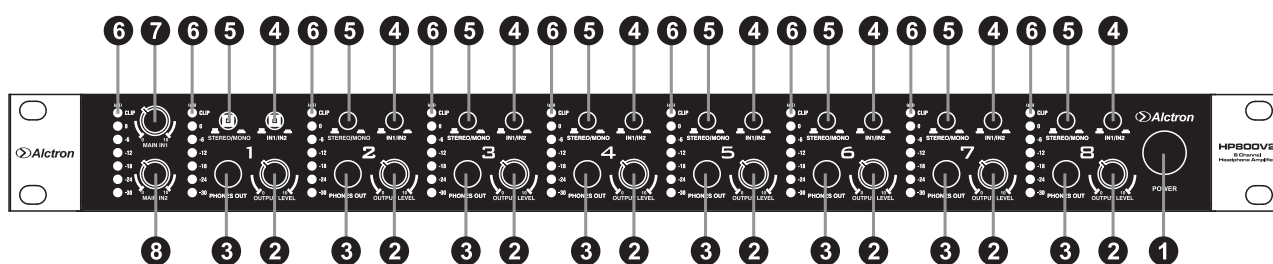
HP800V2是一款带有8路独立通道的立体声耳机输出接口的耳机放大器。每个通道都有自己独立的音量控制电位器，当您觉得音量过高或者过低的时候，通过音量电位器来调整即可。7段式的输出电平指示灯，如果红灯亮起，您应该将音量调小，以免造成信号失真。另外Mono/stereo和通道选择按钮能够帮助您监听到您想要的声音。

## 特征

- \* HP800V2拥有8个独立的高功率立体声耳机输出，并且能够灵活地分配多路信号以方便监听。
- \* 每个通道都有独立的音量控制和1/4英寸的立体声输出。
- \* 每个通道都能提供超过500mW的功率，展现出完整的频率响应以及在大音量下的良好声场。
- \* 采用精密的电路设计和精良的电子元件，使HP800V2具有低噪声和高稳定性等特点。
- \* HP800V2有两组输入端口，每通道上有一个输入来源选择开关，可以选择1通道输入或2通道输入。
- \* 每个输入通道都有单独的单声道/立体声选择开关。
- \* 高品质，放大器外形为标准1U机架的体积。
- \* 内置经过屏蔽的双重标准电源与选择开关和带熔断保护器的电源接口。

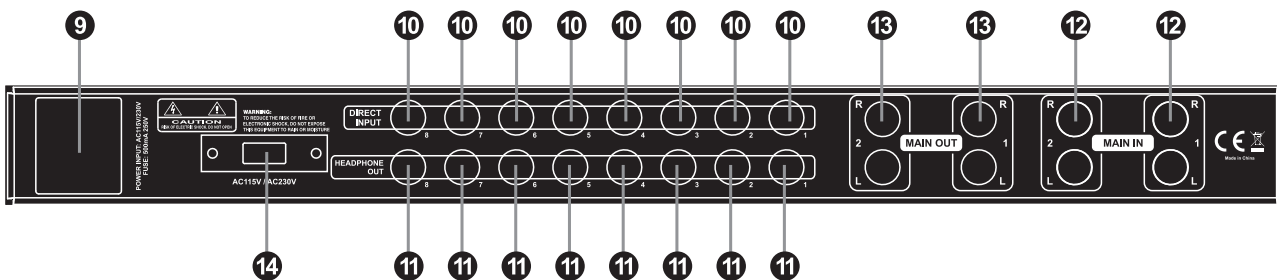
## 前后面板连接

前面板:



1. POWER: 打开/关闭产品。当有电源接入的时候，电源LED灯亮起。
2. OUTPUT LEVEL: 每个通道都有独立的音量控制旋钮，能够单独控制每一个通道的音量。
3. PHONE OUT: 立体声耳机输出接口，八路输出可以同时使用。
4. IN1/IN2: 按下此按钮，监听MAIN IN 2通道的信号；不按此按钮，监听MAIN IN 1通道的信号。
5. STEREO/MONO: 按下此按钮，监听到MONO的信号；不按此按钮，监听到STEREO的信号。MONO模式：当只有R有信号输入的时候，R和L都有信号输出；当只有L有信号输入的时候，R和L都有信号输出。STEREO模式：当只有R有信号输入的时候，只有R有信号输出；当只有L有信号输入的时候，只有L有信号输出。
6. CLIP/0/-6/-12/-18/-24/-30: 七段式电平表能够让您知道每个通道的输出电平。电平范围从-30到0dB。
7. MAIN IN 1: MAIN IN 1通道的主音量控制，可以同时控制1-8通道的输入音量。
8. MAIN IN 2: MAIN IN 2通道的主音量控制，可以同时控制1-8通道的输入音量。

后面板:



9. POWER INPUT: 标准的IEC电源接口。

10. DIRECT INPUT: 辅助输入接口, 能够分别给每一路耳机提供额外的信号源。当DIRECT INPUT 和MAIN IN都有信号输入的时候, DIRECT INPUT优先输入, 此时监听不到MAIN In的声音。

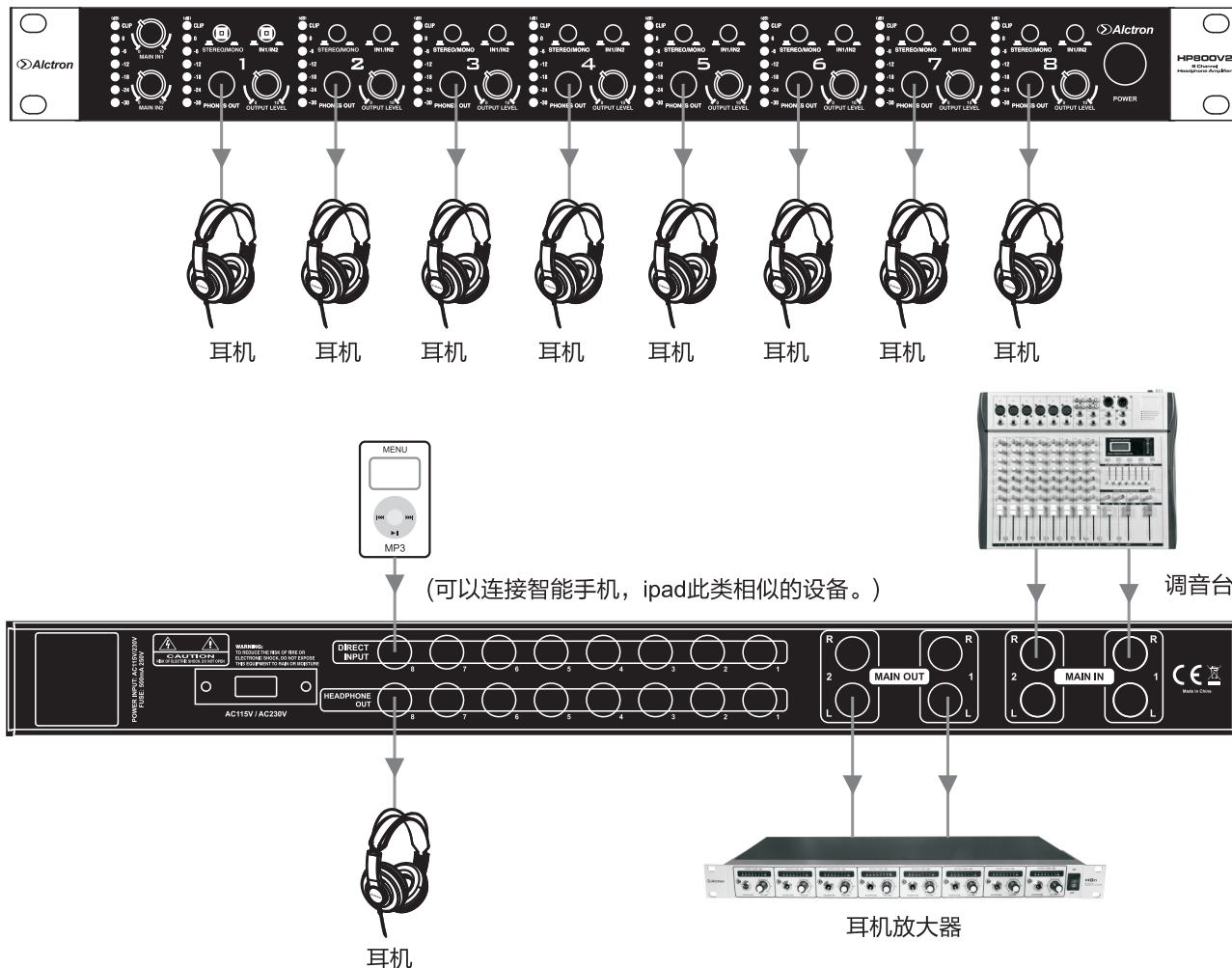
11. HEADPHONE OUT: 八个耳机接口分别连接至独立的放大器, 也可以连接耳机。本产品给每个通道提供了两个耳机接口。

12. MAIN IN: 1/4英寸输入接口。如果只有MAIN 1 L有输入源, 输出接口只有L声道有声音; 如果只有MAIN 1 R有输入源, 输出接口只有R声道有声音。MAIN IN 2原理同此。若只有MAIN IN 1有输入的时候, 按下IN1/IN2键, 监听无声音。

13. MAIN OUT: 用1/4英寸的接口连接另外的耳机放大器。

14. AC115V/AC230V: 电压选择开关, 您能根据当地电压的要求设置电压为AC115V/AC230V。

### 音频连接



## 产品参数

### 音频输入

- \*主输入：1/4英寸TRS平衡接口
- \*输入阻抗：平衡40K $\Omega$ /非平衡20K $\Omega$
- \*最大输入电平：16dBu
- \*共模抑制比：>55dB@1KHz
- \*辅助输入：1/4英寸TRS接口（立体声）
- \*输入阻抗：15K $\Omega$

### 音频输出

- \*主输出：1/4英寸TRS平衡接口
- \*耳机输出：1/4英寸TRS接口（立体声）

### 功率放大

- \*最大输出功率：+24dBm(负载阻抗100 $\Omega$ )  
+21dBm(负载阻抗8 $\Omega$ )
- \*最小负载阻抗：8 $\Omega$

### 系统参数

- \*频率响应：10Hz 到 80KHz +/-2dB
- \*噪声：22Hz 到22KHz >90dB@0dBu
- \*动态范围：22Hz 到22KHz 110dB
- \*失真度：0.006%典型值，@+4dBu 1KHz

### 功能开关

- \*主输入1/主输入2: 开关可以选择主输入1或主输入2
- \*立体声/单声道：按下使该部分为单声道
- 双通道：在立体声/双通道模式之间切换

### 显示

- \*输入电平：七段LED显示——30/-24/-18/-12/-6/0dB/过载
- \*输出电平：七段LED显示——30/-24/-18/-12/-6/0dB/过载

### 电源

- \*电压：可选100-120V AC, 200-240V AC, 50-60Hz
- \*连接线：标准IEC连接线。

## 保修

如果您的HP800V2 八路耳机放大器需要维修，请按照以下说明操作。

1. 请确保不是因为操作不当或外部设备所造成。
2. 请保存好我们的说明书，返修的时候不必把说明书寄回给我们。
3. 返修的时候请用产品原来的包装箱来包装，这是非常重要的。如果你已丢失原包装，请确保您正确包装和保护好本机爱克创将不负责由于非原厂包装造成任何损害。
4. 运送到爱克创技术支持中心或当地的授权经销商。





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