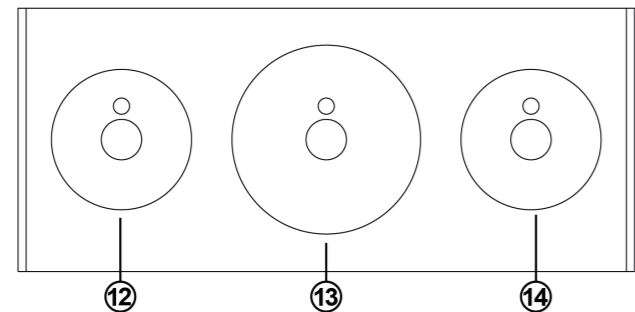
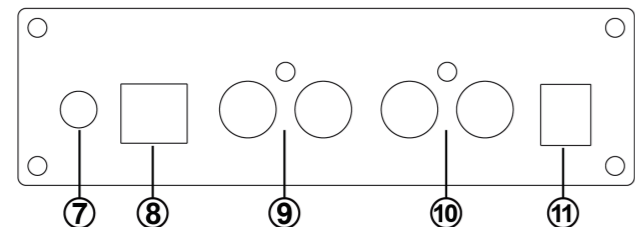


P1/P1 PRO front and back panel



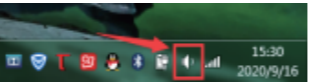
- ① ON/OFF
- ② Bluetooth indicator
- ③ Input switch(among BT/USB/RCA)
- ④ TONE on/off(Treble/bass are invalid when off)

- ⑤ Blue/Orange LED switch / OFF
 - ⑥ 3.5 Headphone output interface (RCA output will automatically disconnect when a headphone is connected)
 - ⑦ Bluetooth antenna socket
 - ⑧ PC-USB input interface
 - ⑨ RCA input interface(Red to right channel, white to left channel)
 - ⑩ RCA output interface(Red to right channel, white to left channel)
 - ⑪ Power interface (DC 12V)
 - ⑫ Bass adjustment knob
 - ⑬ Main volume control knob
 - ⑭ Treble adjustment knob
- Note: Not support headphones with microphones (TRRS port)

Operation steps

1. Insert the vacuum tubes into the sockets of P1/P1 PRO. (please check if the pins of tube are deformed)
2. Connect active speakers or an amplifier to its RCA output, or a headphone to its 3.5mm jack output.
3. Wired input:
Connect the audio source (via RCA cable) to the RCA input of P1/P1 PRO; or connect computer (via USB cable) to the PC-USB socket.
4. Connect the 12V power adapter to P1/P1 PRO and then plug the power cable into the socket, and press the power switch to power on, toggle the input mode switch to the corresponding input position.
5. Wireless input:
Please toggle the input switch to BT position (there will be blue indicator flashing). Turn on Bluetooth on your phone, search and click to connect, the blue indicator will be steady blue after successful connection.
6. Play music on the audio source, adjust the treble/bass and main volume according to your preferences and enjoy music.
7. After use, please press the power switch to power off first, and then disconnect the power adapter.

PC-USB operation instructions

1. Connect the P1/P1 PRO (via original USB cable) to the computer. (USB support hot swapping)
 2. Toggle the input mode switch to USB mode;
 3. Right-click on the speaker icon on the lower right corner of computer and it will pop-up a message box, then select the **【Playback Devices】**
- 
4. Select the USB device recognized by computer in the pop-up box;
 5. Set the **【Digital Hifi Audio】** as default device.

Parameters

Audio input	Bluetooth/PC-USB/RCA
Audio output	RCA/3.5mm Headphone
PC-USB supports maximum sampling rate	192KHz/24Bit
PC-USB Supported operating systems	W7/W8/W10/MAC/linux
Headphone matching Impedance	16-300Ω
Maximum output power of headphone amplifier	160mW/32Ω
Adjustment range for treble and bass	±6dB
RCA Output level	2.3V
Frequency response	20Hz-20KHz(±3dB)
Input sensitivity	0.775V
Working voltage	DC 12V/ ≥ 1.5A
THD	0.1%(1KHz)
SNR	≥ 98dB
Package weight	0.88kg/1.94lb
Package dimensions(W*D*H)	210*240*60mm/8.27*9.45*2.36in

FAQ

- Q: Why are all cables connected but there is no sound?**
- A:** 1. Check the power indicator light of P1/P1 PRO:
 ① If it can light up normally, please check if the corresponding input mode is selected.
 ② If it cannot light up, please use another 12V power supply to detect whether the fault is the power supply or P1/P1 PRO.
2. If the indicator light is on but there is no sound, so the power supply is normal. Please continue to check according to the order of audio signal transmission: audio source → audio cable → preamp/decoder → amplifier → speaker.
3. If all is fine, please check whether the audio source is muted, paused or the volume is too small.
- Q: Why is the sound distorted? How to adjust the treble, bass and main volume?**
- A:** Maybe the input amplitude is too large. If the volume of audio source and P1/P1 PRO both are turned to maximum, it is easy to cause distortion. Please turn down the volume of audio source or P1/P1 PRO. In general, adjust the volume of amplifier to about 60%, then fine-tune the volume of preamp (distortion will be greatly reduced in this way); the treble and bass are usually adjusted according to the music style/device types/personal preference.
- Q: Why is there a loud current sound or buzzing sound on the speaker?**
- A:** 1. Please use the original power supply. Many power supplies in the market have interference, which will cause current sound.
2. When using unshielded signal cable in no load, there will be interface signals. Please use the shielded signal cable or unplug it.
3. If there is still noise after eliminating above situations, please confirm whether it is external noise or internal noise. Disconnect all inputs and only retain power supply and power cable. If the noise

disappears, it is from audio input; if the noise is still there, it is possibly caused by power supply or the internal of P1/P1 PRO.

Q: Can I replace the vacuum tube without turning off the power?

A: No, because the inside of P1/P1 PRO is working at high pressure, the vacuum tubes will be burnt out or the P1/P1 PRO will be damaged if you plug tubes during its work.

Q: Why is there a thumping sound when switching on/off?

A: Please confirm the on-off sequence is correct, normally it follows the order of signal transmission when turn on: audio source → preamp / DAC → amplifier → speaker. (The sequence is reversed when switching off. As the internal capacitors will be discharged for a while after shutdown. If turn off the preamp firstly and then turn off amplifier, impact sound will be easily caused which may damage the amplifier or speaker in severe cases).

Q: How does the tube work when the supply voltage of the tube preamp is only 12V?

A: In addition to the high-voltage power supply of transformer, vacuum tubes also use positive and negative voltage supply (it depends on the function of the tube in the circuit), we also have some products that adopt the step-up power supply.

Q: Why is the sound not clear every time the tube preamp starts to be used ?

A: Unlike transistors, vacuum tubes are sensitive components which need to be warmed for a while before entering normal working status. Generally it's better to warm up for about 15 minutes.

Q: Why is there a faint sound even when the volume is turned up to the maximum without tubes?

A: Preamp is for audio signal amplification, other components such as capacitors or resistors will still produce a weak signal coupling although no tubes are plugged in. Please install the tube correctly before use.

Q: How long is the service life of vacuum tubes? Can I replace them by myself?

A: The service life of the vacuum tubes is about 4000-4500 hours, they are not easy to break as long as not damaged by external forces. Before replacing, please confirm the model that can be replaced.

Q: The commonly used vacuum tubes can be replaced by what models?

A: Commonly used preamp tube can be replaced by: 6J1, 6J2, 6J3, 6J4, 6J5, 6K4, 6*1N, 6*4N, 6*5N, 5654/5654W, 5725, 6AK5, EF95, 6BA6, 403B, etc.

Q: What should be paid attention to when using tube devices?

A: Vacuum tube is a high-resistance component, easy to be interfered with, so it should be as far away as possible from RF interference or electromagnetic interference sources and avoid vibration; The tube will generate heat when working, so it should be well ventilated and heat dissipated.

Q: Can I replace or upgrade the op-amp by myself?

A: Commonly used replaceable op amps: 2604 / 2134 / Muse02, etc. (dual op amps are generally available), different op amps have different sound effects. (According to the actual product models.)

Q: Why is the sound very low when the headphone is connected to the headphone amplifier?

A: Please confirm whether the impedance, plug type and other parameters of headphone are compatible with the headphone amplifier, or whether the input signal is too low.

Q: Why Bluetooth cannot be searched? How to switch to Bluetooth mode?

A: Toggle the input switch on the panel to switch to BT mode, there will be blue light flashing, then use your phone or tablet to search for "BT HIFI AUDIO", click and connect it, then play music. (The Bluetooth name may different in different models of products, please refer to the user manual of each product).

Q: Why does the Bluetooth playback lag or even disconnect? Why is the Bluetooth background noise/current noise obvious?

A: Please check whether the Bluetooth antenna is installed correctly, whether there is interference or blocking (such as WiFi router / wireless

telephone / FM radio, etc., since they may be in the same frequency band as Bluetooth, and inductive loads such as fans/refrigerators/air conditioners will also cause some interference), whether the Bluetooth is blocked or too far away from the device (more than 15 meters).

Q: Can the device be connected to my computer via Bluetooth? Why is there no sound when connected to PC?

A: Compared with phones, computers with poor compatibility and troublesome operations when using Bluetooth. Need the computer with Bluetooth function and to update the driver and set the output device to Bluetooth after connection.

Warning

1. Please do not open the shell by yourself, improper operation may cause a risk of electric shock.
2. Please use the regular manufacturer's switching power supply, otherwise there will be the risk of damage to P1/P1 PRO.
3. Please do not change the vacuum tube at will, or it will burn out your vacuum tube or P1/P1 PRO.
4. Please do not put P1/P1 PRO in a high temperature or humid environment.
5. Headphone output with priority, the RCA output will automatically disconnect when a headphone is inserted.
6. Default 12V power supply, and P1/P1 PRO will be damaged if the voltage exceeds 12V.

Contact information

- Website: www.doukaudio.com
- Email: nobsound@doukaudio.com
- WeChat/Whatsapp: +86-17704028602
- Address: Room 1329, Wang Cheng Building, Long Guan East Road, Long Hua District, Shen Zhen, Guang Dong, China, 518000