

NUX

PHT-2 HEADPHONES AMPLIFIER 2 CHANNELS USER'S MANUAL

Thank you for choosing NUX PHT-2 Dual-Channel Headphones Amplifier. PHT-2 is a portable headphones amplifier. It has several jacks that support stereo and mono signal. Each channel has independent level control and can connect up to 4 headphones at the same time. LINK function can make several PHT-2s to be used in series. It can be applied in many occasions, such as studio, stage, etc.

Please take your time to read the following user's manual carefully. We recommend that you keep the manual for future reference.

FEATURES

- Two stereo headphone amplifiers.
- Balanced/unbalanced input.
- AUX IN with RCA jack.
- Master Level Control.
- Signal Level Indicator.
- Dual headphone jacks output.

Copyright

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Accuracy


Whilst every effort has been made to ensure the accuracy and content of this manual, Cherub Technology Co. makes no representations or warranties regarding the contents.


WARNING-IMPORTANT SAFETY INSTRUCTIONS BEFORE CONNECTING, READ INSTRUCTIONS

WARNING: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

CAUTION: To reduce the risk of fire or electric shock, do not remove screws. No user-serviceable parts inside. Refer servicing to qualified service personnel.

CAUTION: This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of 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.

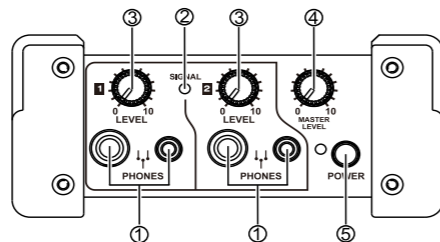
 The lightning symbol within a triangle means "electrical caution!" It indicates the presence of information about operating voltage and potential risks of electrical shock.

 The exclamation point within a triangle means "caution!" Please read the information next to all caution signs.

1. Use only the supplied power supply or power cord. If you are not sure of the type of power available, consult your dealer or local power company.
2. Do not place near heat sources, such as radiators, heat registers, or appliances which produce heat.
3. Guard against objects or liquids entering the enclosure.
4. Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage points or other risks. Refer all servicing to qualified service personnel.
5. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when the power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally or has been dropped.
6. The power supply cord should be unplugged when the unit is to be unused for long periods of time.
7. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles and at the point where they exit from the apparatus.
8. Prolonged listening at high volume levels may cause irreparable hearing loss and/or damage. Always be sure to practice "safe listening".

Follow all instructions and heed all warnings
KEEP THESE INSTRUCTIONS!

PRODUCT INTERFACE



1. HEADPHONE OUTPUT JACKS

Each channel offers two types of jack: 3.5mm and 6.35mm. They are in parallel inside.

2. SIGNAL LEVEL INDICATOR

The indicator will be lit up when the input signal reaches -10dB level. Two channels share the same indicator.

3. LEVEL KNOB

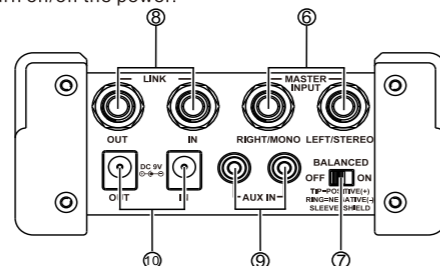
Adjust channel volume.

4. MASTER KNOB

Adjust master output volume.

5. POWER SWITCHER

Turn on/off the power.



6. MASTER INPUT JACKS

These support mono and stereo signal according to different connecting methods.

7. BALANCED/UNBALANCED Switch

Switch the input jack to receive balanced or unbalanced signal.

8. LINK JACKS

Use for connecting several PHT-2s in series. Connect the LINK OUT jack with a stereo 6.35mm cable to the LINK IN of the next PHT-2.

9. AUX IN JACKS

The pair of RCA auxiliary jacks allow you to input stereo signal.

10. POWER JACK

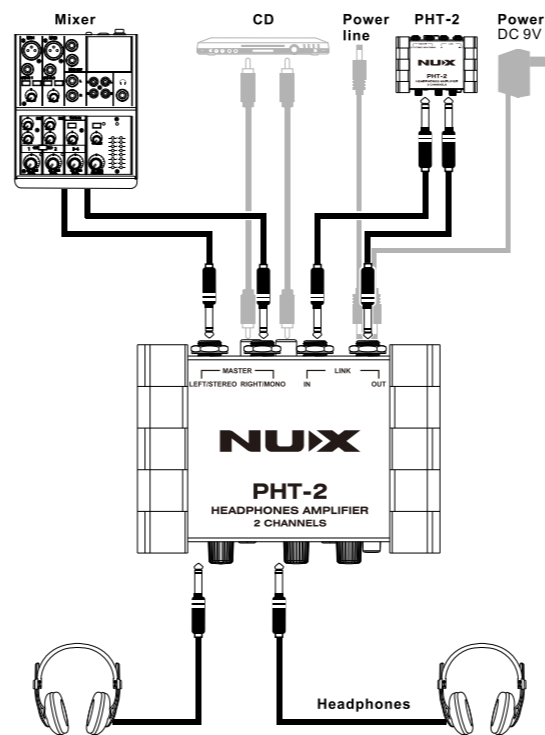
The power jack can accept center negative 9V DC power. These two power jacks are in parallel. The other jack can be used as the power output for the next device.

Power On/Off

Please confirm the power is off before connecting PHT-2 to other devices.

1. If you want to obtain the best performance, LEVEL knob should be kept on the center-right position.
2. Turn off the MASTER LEVEL knob before connecting cables.
3. Please confirm that the amplifier and speaker should be turned off before the power is off. And turn on the amplifier or speaker after the power is on.

CONNECTIONS



FUNCTIONS INTRODUCE

PHT-2 has intelligent adaptability for the input jacks. Therefore, any type of signal can be accepted in.

1. Single mono input

Connect mono plug to the MONO jack of PHT-2. Keep no other plugs inserted into STEREO jack. This input method can support either balanced or unbalanced signals by using UNBALANCED/BALANCED Switcher, and it can ensure that mono signal can get into two stereo channels at the same time.

2. Stereo input

Connect the stereo plug (such as the headphone output jack of other devices) to STEREO jack of PHT-2. Keep no other plugs inserted in MONO jack.

3. Dual mono input

Connect two mono plugs to the LEFT and RIGHT jack of PHT-2. This input method can support either balanced or unbalanced signals by using UNBALANCED/BALANCED Switcher.

4. Output channel extension

PHT-2 supports channel extension. Connect LINK OUT of one PHT-2 with 6.35mm stereo plug to LINK IN of the other PHT-2, and you can get two more channels added. More channels can be extended by this way. The MASTER LEVEL knob of the first PHT-2 will control the volume of all channels. But the users can control the volume of each headphone by LEVEL knob.

5. Master Volume Control

MASTER LEVEL controls the main input signal. SIGNAL LEVEL indicator displays the signal intensity. LEVEL knob controls signal intensity of each channel.

6. Two Stereo Headphone Amplifiers


Each Headphone output channel offers two types of jack: 3.5mm and 6.35mm. They are in parallel inside. Therefore, it is recommended that only one headphone plugged in one channel.



Important notes:

1. Insert the center negative 9V DC plug into any of two power jacks on the back panel. The other jack can be used as the power output for other devices. Notes: please confirm that all the power consumption should be lower than the power supply's capacity.
2. Input mono or stereo signals into corresponding INPUT jack. Use standard 6.35mm mono plug for unbalanced output system, and turn the switcher to the unbalanced position. Use standard 6.35mm stereo plug for balanced output system, and turn the switcher to the balanced position.
3. RCA plug can be inserted into the AUX IN jack if it is necessary. The white jack is left channel. The red jack is right channel.

SPECIFICATIONS

- Input Impedance: 10k Ω
- Output Impedance: 10k Ω
- Dynamic range: 96dBu
- S/N ratio: -94dBu
- Frequency response: 20Hz-20kHz -1dB~0.5dB
- THD+N: 0.027%(0dBu)
- Headphone output power: 30mW/each channel
- Signal Indicator: -10dBu
- Operating Current: 240mA
- Power Supply: DC 9V 
- Dimension: 121(L)x84(W)x55(H)mm
- Weight: 350g

PRECAUTIONS

- Environment:
 1. Do NOT use PHT-2 in high temperature, high humidity, or subzero environments.
 2. Do NOT use PHT-2 in the direct sunlight.
- Please do NOT disassemble PHT-2 by yourself.
- Please keep this manual for future reference.

ACCESSORIES

- Owner's manual

THE FCC REGULATION WARNING (for U.S.A.)

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.

CE mark for European Harmonized Standards

CE Mark which is attached to our company's products of Battery mains the product is in fully conformity with the harmonized standard(s) EN 61000-6-3:2007+A1:2011 & EN 61000-6-1:2007 Under the Council Directive 2004/108/EC on Electromagnetic Compatibility.

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