

NUX

PDI-2

TRANSFORMER ISOLATED D.I.BOX USER'S MANUAL

Thank you and congratulations for choosing the PDI-2 Transformer Isolated D.I. Box from NUX.

PDI-2 is a very versatile transformer isolated D.I. box intended for use in the studio and on stage. Unlike standard DI boxes, the PDI-2 can accept virtually any input connection and level (including amplifier speaker outputs).

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

FEATURES

- Perfect for stage and studio
- Switchable input level handles instrument and speaker levels
- Active and passive mode for transformer isolated and Hi-Z buffer out
- Switchable FET active circuit for ultra low noise floor
- Oversized nickel audio transformer with very high quality
- 48 Volt phantom power or 9 volt DC
- Switchable ground lift
- 1/4' parallel out put and unbalanced buffered out

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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.

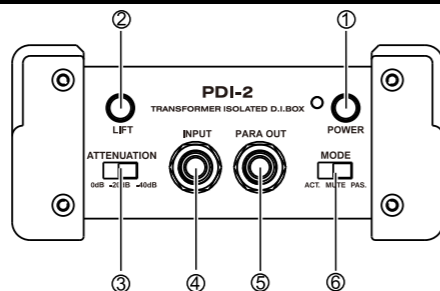
 The lightning symbol within a triangle means "electrical caution!" It indicates the presence of information about operating voltage and potential risks of electrical shock.

 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. Power Button

Switch ON or OFF the power of PDI-2

2. Ground Lift Button

Use the LIFT button to either connect the ground of input and output or keep them completely separate. Depending on the grounding of the connected devices linking or disconnecting will reduce hum or prevent ground loops.

3. Attenuation Switcher

Use the ATTENUATION switch if you are sure the PDI-2 is clipping (overloading). Always use as little attenuation as possible to get the best possible signal-to-noise ratio.

0dB: for guitar and bass with passive pickups.

- 20dB: for professional audio device with +4dBu output level.

- 40dB: for power output of guitar amplifier without more than 200Wrms.

NOTE: you should connect a speaker cabinet from PARA OUT jack, when you connect power out of amplifier to input jack of PDI-2.

4. Input Jack

Connect guitar, effect pedal or speaker to INPUT jack.

5. Para Output Jack

Output the signal of the input jack directly through PARA OUT jack.

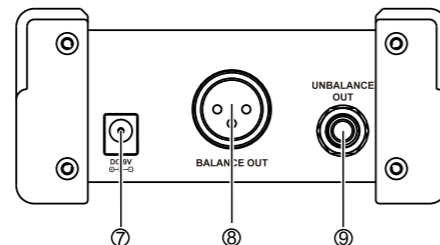
6. MODE switcher

ACT.: under the active mode, PDI-2 increases the input impedance to 1Mohm with a FET buffer circuit, it works well for Hi-Z instrument such as electric guitar and bass.

MUTE: to avoid switching noise, you should select this mute mode before operating the PDI-2.

PAS.: under the passive mode, there's no active electronic parts used in circuit, the input impedance of PDI-2 becomes 60kohm, it works well for keyboard or bass guitar with active pickups.

NOTE: you should use a phantom power from mixer or a 9v power adapter for power supply.



7.9V DC Power Supply

Use 9V DC power supply if there isn't phantom power connected or LIFT button is pressed.

8. Balance Out Jack

Use this connector for the device with balanced type connector.

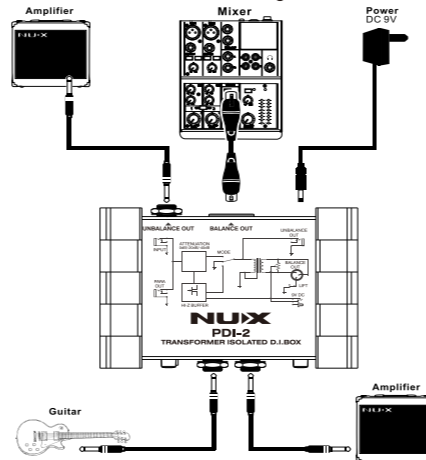
9. Unbalance Out Jack

Use this connector for the device with Unbalanced type connector.

QUICK GUIDE

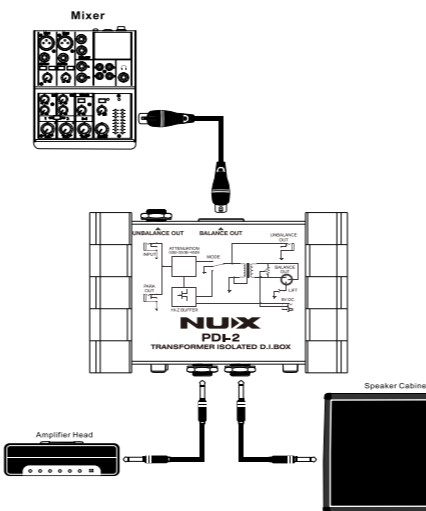
Example 1

1. Connect guitar to INPUT jack.
2. Connect PARA OUT or UMBALANCE OUT to guitar amplifier.
3. Connect BALANCE OUT to mixing console.



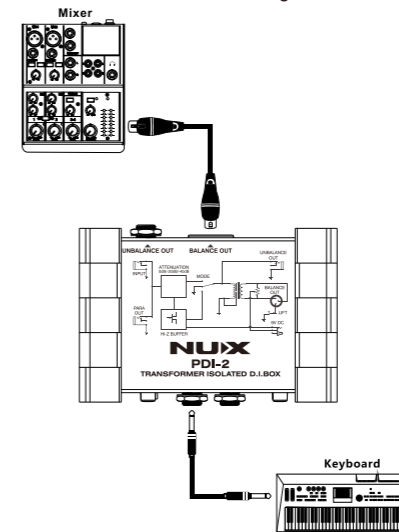
Example 2

1. Connect the speaker output of amplifier head to INPUT.
2. Connect the input of cabinet to PARA OUT.
3. Connect BALANCE OUT to mixing console.



Example 3

1. Connect Keyboard to INPUT.
2. Connect BALANCE OUT to mixing console.



SPECIFICATIONS

- Maximum Output Level: +8dBu (balanced/600Ω) +8dBu (unbalanced/50kΩ)
- Nominal Input Impedance: 1MEG ohm (active mode)/60k ohm (passive mode)
- Frequency Response: 10-40kHz (-1dBu)
- Noise Floor: -100dBu
- THD+N: 0.005% @ 0dB
- Power supply: DC 9V or Phantom power 48V
- Current Consumption: 6.5mA (active mode)
- Dimensions: 121x84x55 mm
- Weight: 330g

PRECAUTIONS

- Environment:
 1. Do NOT use PDI-2 in high temperature, high humidity, or subzero environments.
 2. Do NOT use PDI-2 in the direct sunlight.
- Please do NOT disassemble PDI-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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