

JDI-48

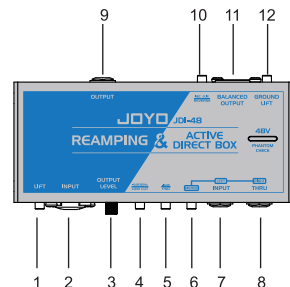
Owner's Manual

Thank you for purchasing our products!
Please read this manual before use!

Features

- 48V phantom powered DI box, high dynamic range, retaining the nuances of instruments' sound
- No need of battery, phantom powered
- Grounding switch turns off the internal grounding channel between the Input&Output
- Low-cut filter, -15dB attenuation, it features polarity reverse
- High Input Impedance reduces pick-up loading
- REAMPING and DI 2 in 1, with independent functions
- DI features low-cut, phase reverse, stereo mix and more
- REAMPING Input Jack: 6.35mm and XLR 2 in 1 Input Jack, accepting both 6.35mm TRRS and XLR
- Suitable for signal switching during professional recording and live performance

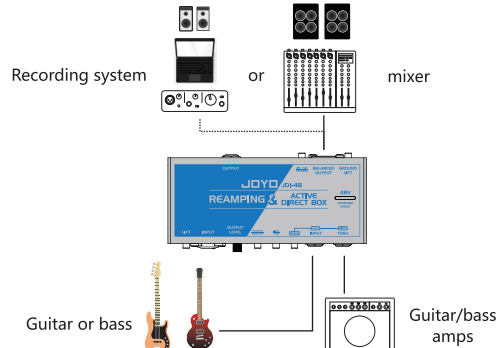
Panel



1. REAMPING Input Jack Grounding Switch
2. REAMPING 2 in 1 Input Jack(XLR/6.35mm)
3. REAMPING Output Signal Control Knob
4. DI signal 80Hz low-cut button
5. DI signal attenuation button(-15dB)
6. DI signal Input Jack Working Mode Selection Switch
7. INPUT Jack: The INPUT signal is converted by the DI when the MERGE button has not been activated.
8. THRU Output Jack: THRU is the original signal direct output (catering to other purpose); when the MERGE button is activated, the INPUT and THRU Jacks merge into a stereo Input Jack, catering to several stereo instrument's signal Input.
9. 6.35mm REAMPING Output Jack, for connecting to the amps
10. DI Output Phase reverse knob, the Output signal phase is reversed once you press it.
11. DI unit XLR Balanced Output Jack
12. DI unit ground lift switch, JDI-48's ground wire won't be connected with the devices such as mixer or audio interface it connects to once you press this switch.

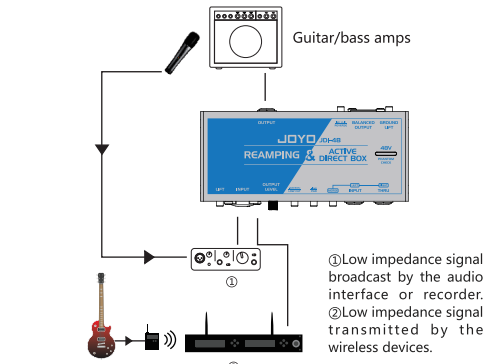
DI's usage

- The DI is active and needs to be 48V phantom powered, turn on the mixer or audio interface's 48V phantom power when it's in use.
- High impedance to low impedance conversion.



REAMPING'S usage

REAMPING is passive, no need for 48V phantom power, can be used directly.



Notes

Please make sure that the devices connect to JDI-48 has proper grounding before use, esp the devices with 2-prong power cord(this cable features neutral wire connector and live wire connector, without grounding connector), if the devices are not grounded properly, there might be electric shock, which causes electric shock to humans or do damage to the devices. Different manufacturer's power supply, connection or product quality are different, so JOYO cannot guarantee the mentioned won't happen, JOYO will not liable for any damages. Users ought to make sure that any device you connect matches your country's electrical safety rules, and it should be used at venues that comply with your country's safety rules for buildings.

Ground lift function

The ground lift switch breaks the ground between your device(JDI-48 and other instruments or other devices it connects to) and output to other devices(mixer or audio interface, etc), you can activate this function to eliminate hum and noise if you hear them from the playback system. It's mainly caused by ground loop noise, which means 2 systems have a difference in electrical potential at grounding points. To break the 2 systems' ground and thus break the ground loop can eliminate the hum and noise. If the hum and noise still cannot be eliminated by this way, please take a look and check whether there is strong source of interference(such as power switch, obsolete monitor and more) nearby or the connection is not sufficiently shielded.

PAD function

PAD stands for Passive Attenuation Device, it refers to the device that can attenuate signal without supplying power. Normally, you may not need to activate this function, however, you can activate it if the device connects to JDI-48 has quite high output levels, and there is evident overload or distortion once you've adjusted the Output Volume Knob, it attenuates the input signal (fixed value: -15dB) and also decreases the output signal's distortion to an acceptable level by adjusting the output volume knob.

Low cut function

Extremely low bass response might make the sound muddy or overload the speakers of the playback system in certain circumstances, and may also cause low frequency self-oscillation for some acoustic instruments(such as acoustic guitar). To avoid the mentioned problem, we need to attenuate the input signal's low frequency(such as your instrument's output signal) to an extent. Once JDI-48's low cut switch is turned on, it cuts signal that is less than 80Hz, which improves it to an extent, if the problem still exists once the low cut switch is turned on, you might need extra device to help solve the problem.

DI Input Jack and mode(MERGE)

JDI-48's DI unit signal input jack features 2 modes, when the MERGE switch is not turned on, INPUT Jack can connect to your Input devices, such as guitar, THRU Jack outputs the signal from Input (without any treatment nor coloration) for other devices, one classic application is "what you hear is the wet sound that has been post processed, while what you record is the pure dry sound", for example, when THRU connects to the amp, you can hear the amp's distortion or overdrive tone directly, the tone recorded into the computer is actually the pure clean tone. When the MERGE switch is turned on, both INPUT and THRU are in input mode, now you can input 2 signals through INPUT and THRU, after being mixed through the DI unit and turns into a mono signal, outputting to audio interface or mixer through the Output Jack.

Dl box's specifications

Type:48V DC phantom power
Input impedance:220KΩ, unbalanced
Output impedance:600Ω, balanced
Frequency Response:10-20000Hz<-0.5dBv
Total harmonic distortion:<0.01%
Phase distortion:-21deg
Maximum input voltage<9VPP

REAMPING'S specifications

Type: no need for power supply
Input impedance:600Ω
Input signal level:+4dB Line level
Weight:467g
Dimensions:146mm×76mm×34mm
Package contents
Main unit×1
Owner's manual×1

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