Superlux®

ADI-2

DUAL-CHANNEL ACTIVE DIRECT BOX

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Instruction Manual

ADI-2

DUAL-CHANNEL ACTIVE DIRECT BOX

Description

The ADI-2 is a high-performance dual-channel active DI (Direct Injection) box designed for guitars, basses, keyboards, electronic instruments, and stereo audio sources. Equipped with a ultra-low-noise analog amplification circuit, it ensures pristine, transparent impedance matching and signal balancing when feeding signals into mixing consoles, audio interfaces, and professional PA systems.

The ADI-2 features two 1/4” inputs, two 1/4” parallel Thru outputs, and two balanced XLR outputs, making it versatile for both stage and studio applications. It operates entirely on +48V phantom power without the need for batteries. Comprehensive controls include a -15 dB input attenuation switch (PAD), an 80 Hz high-pass filter (HPF), a Ground Lift switch, and a side-mounted 180° polarity reverse switch for the right channel.

Features

- Dual-channel active direct box tailored for instruments, keyboards, and stereo sources.
- Discrete low-noise analog circuitry provides exceptional signal integrity and wide dynamic range.
- Dual 1/4” inputs, dual 1/4” Thru jacks, and dual balanced XLR outputs.
- Powered by standard +48V phantom power (no internal batteries required).
- Equipped with -15 dB PAD, 80 Hz HPF, Ground Lift, and a Right-Channel 180° Polarity Reverse switch.

Connection & Operating Guidelines

System Protection:

As with all audio equipment, always mute or turn down the volume of your sound system before making connections or flipping switches to avoid power thumps that may damage sensitive tweeters.

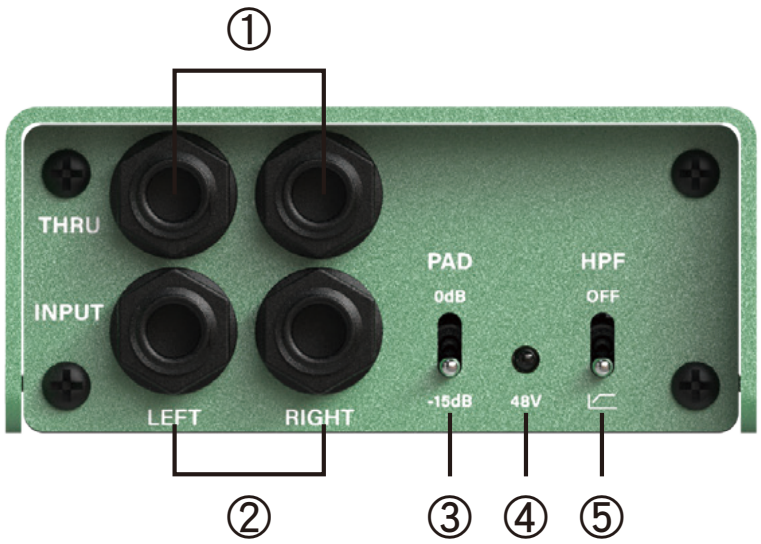
Input & Thru Setup:

Channels Left and Right operate identically. Connect your instrument to the 1/4” INPUT. Use the 1/4” THRU jack to route the unprocessed high-impedance signal directly to an on-stage amplifier or personal monitor system.

Cable Length Recommendations:
Unbalanced cables are prone to noise; keep instrument cable runs under 8 meters (approx. 26 ft). The balanced XLR outputs can effortlessly drive long cable runs up to 100 meters (approx. 328 ft) without signal loss.

Powering Up:
The balanced XLR outputs deliver mic-level signals. Connect them to the microphone preamps/channels of your mixer and engage +48V phantom power. The green 48V LED illuminates when phantom power is active.

Controls & Connectors



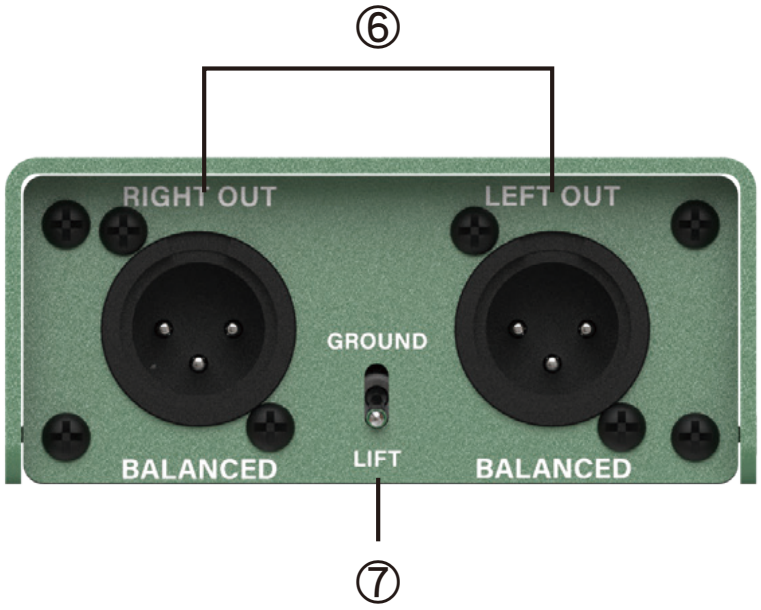
① 1/4" THRU (Parallel Outputs):
Hardwired direct outputs that pass the instrument signal directly to stage amplifiers or personal monitoring rigs without loading the source.

② 1/4" INPUT (Instrument Inputs):
High-impedance unbalanced inputs for Left and Right channels.

③ PAD (-15 dB Attenuation):
Reduces input sensitivity to prevent preamp clipping from high-output sources such as active basses, digital pianos, or DJ gear.

④ +48V Indicator:
Green LED lights up when +48V phantom power is successfully received from the mixer/interface.

⑤ HPF (High-Pass Filter):
Engages a low-cut filter (-3 dB @ 80 Hz) to eliminate stage rumble, sub-bass mud, and low-frequency resonance.



⑥ XLR BALANCED OUTPUTS:

Low-impedance balanced microphone-level outputs (Pin 1: Ground / Pin 2: Hot (+) / Pin 3: Cold (-)).

⑦ GROUND LIFT Switch:

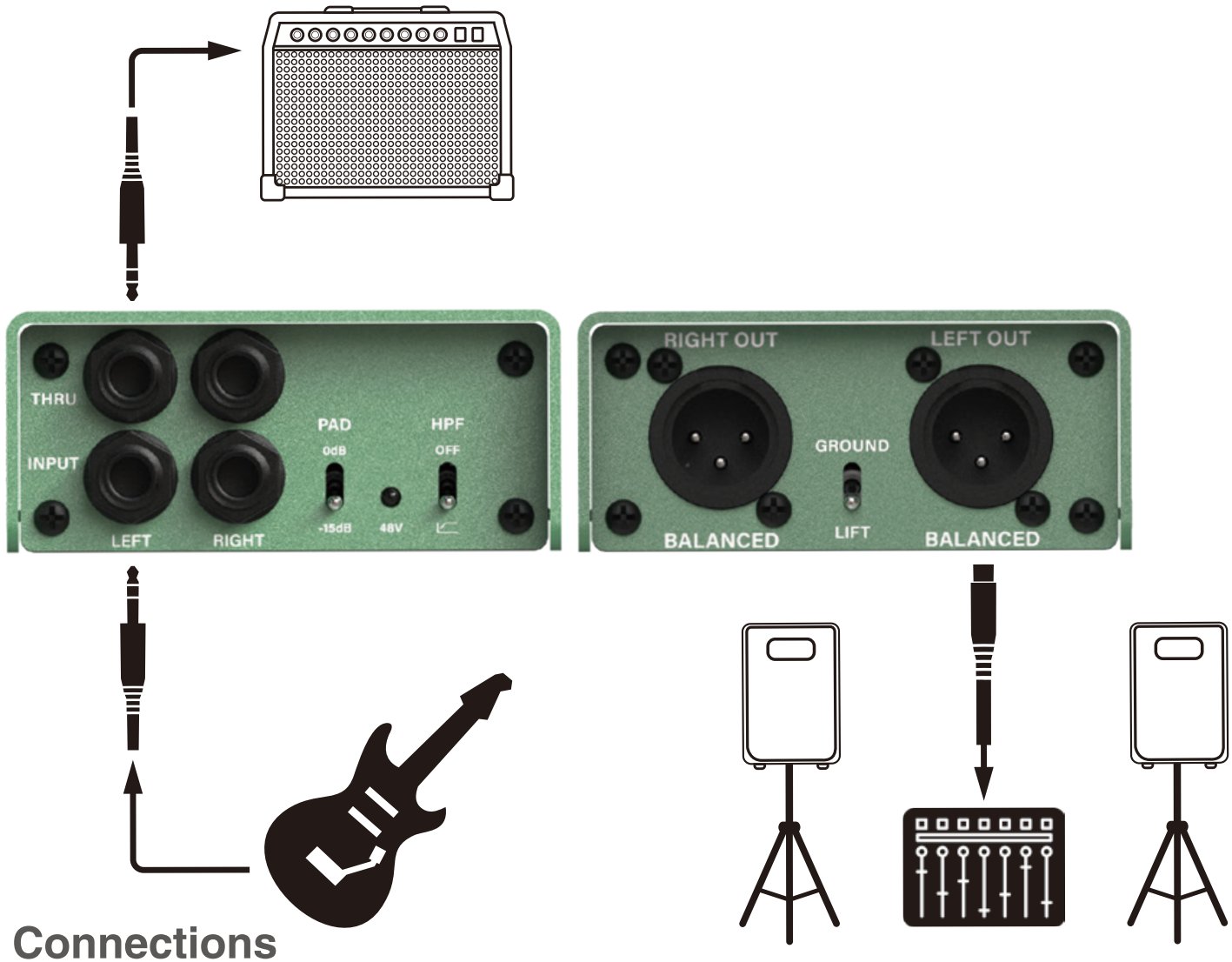
Disconnects Pin 1 ground on both XLR outputs to break ground loops and eliminate 50/60 Hz hum and buzz.



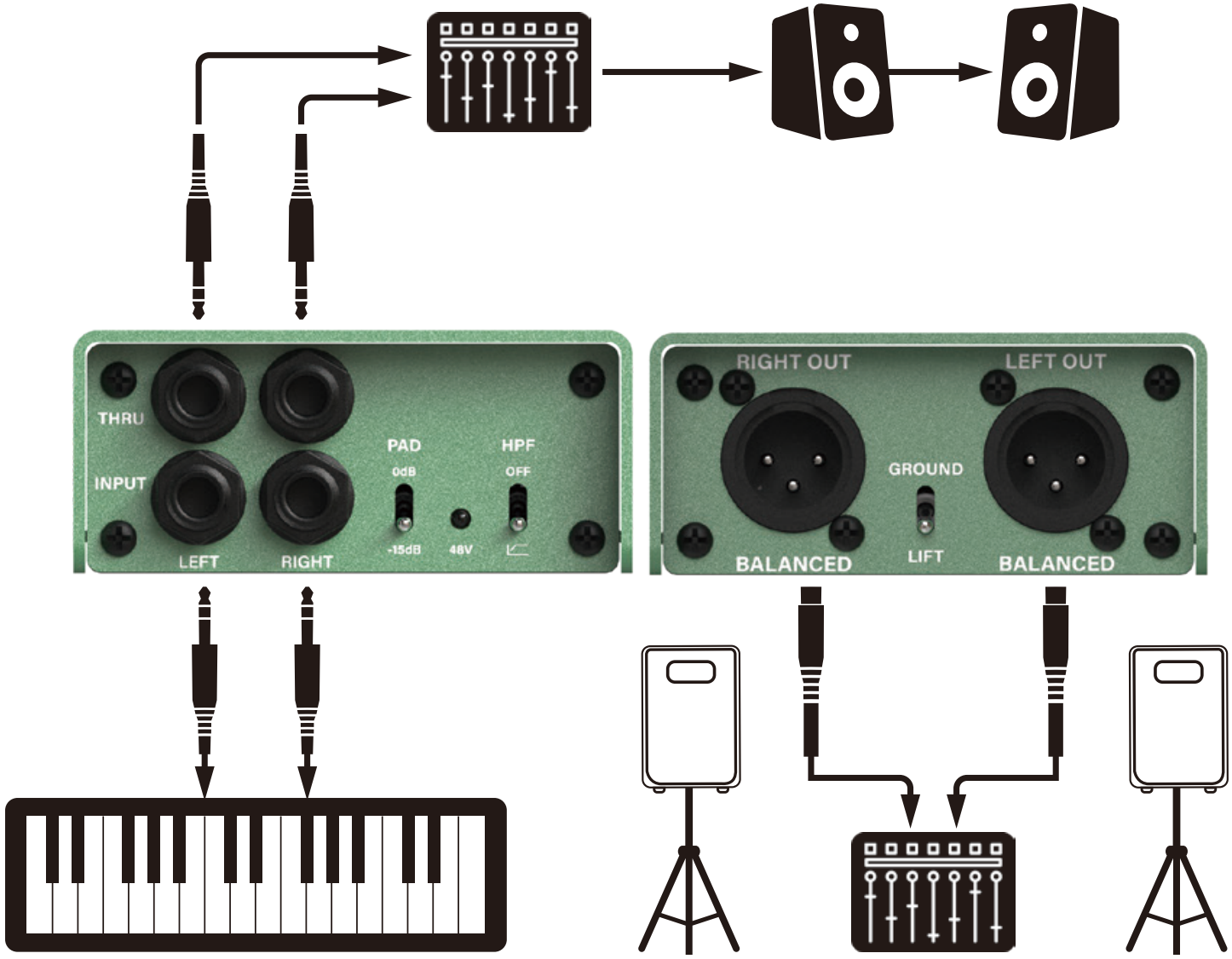
⑧ 180° POLARITY REVERSE (Side Panel):

Inverts the polarity of the Right XLR output by flipping Pins 2 and 3. Ideal for:

- Stereo Recording / Dual Pick-ups: Correcting acoustic phase cancellation between dual mics or combined magnetic/piezo pickups.
- Feedback Suppression: Preventing acoustic low-frequency feedback between stage monitors and PA speakers.
- Vintage Equipment Compatibility: Matching polarity with legacy gear wired to older non-AES standards (Pin 3 Hot).



Making Connections


THRU
INPUT
LEFT
RIGHT
PAD
0dB
-15dB
48V
HPF
OFF
RIGHT OUT
LEFT OUT
GROUND
LIFT
BALANCED
BALANCED

Dimensions



Unit:mm

Specifications

*Note:Specifications are subject to change.

Circuit Type	Low-noise active analog circuitry
Channels	2 (Stereo / Dual Mono)
Frequency Response	20 Hz – 20 kHz
Dynamic Range	109 dB
Equivalent Noise Floor	-99 dBu (A-weighted)
Max Input Level	+10 dBu
Phase Deviation	+10° @ 20 Hz; 0° @ 1 kHz; -1° @ 20 kHz
Total Harmonic Distortion (THD)	0.002% @ -5 dBu
Input Impedance	220 kΩ
Output Impedance	150 Ω (Balanced XLR)
Switches & Filters	PAD (0 dB / -15 dB), HPF (-3 dB @ 80 Hz), Ground Lift, 180° Polarity Reverse (Right Ch only)
Input Connectors	2 × 1/4" (6.35 mm) TS jacks
Output Connectors	2 × 1/4" TS Thru, 2 × Male XLR Balanced

Specifications	
Power Requirement	+48V Phantom Power
Dimensions (L × W × H)	126 × 92 × 42 mm (4.96 × 3.62 × 1.65 in.)
Weight	753 g (26.56 oz)

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