Superlux®

PDI-2

PASSIVE DUAL-CHANNEL DI BOX

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Instruction Manual

PDI-2

PASSIVE DUAL-CHANNEL DI BOX

Description

The PDI-2 is a dual-channel passive DI box designed for instruments, keyboards, electronic instruments, and stereo audio sources. Built with a transformer-based passive circuit, it converts unbalanced signals into balanced XLR outputs for connection to mixers, audio interfaces, and professional sound systems.
With 2 × 1/4” inputs, 2 × 1/4” Thru connections, and 2 × XLR outputs, the PDI-2 supports practical signal routing for stage and studio setups. It requires no battery, phantom power, or external power supply, and features a 0 dB / -15 dB input pad and Ground Lift switch for flexible operation.

Features

- Dual-channel passive DI box for instruments, keyboards, and stereo audio sources.
- Transformer-based passive circuit for balanced signal conversion.
- 2 × 1/4” inputs, 2 × 1/4” Thru connections, and 2 × XLR outputs..
- 0 dB / -15 dB input pad and Ground Lift switch for practical setup.

- No battery, phantom power, or external power supply required.

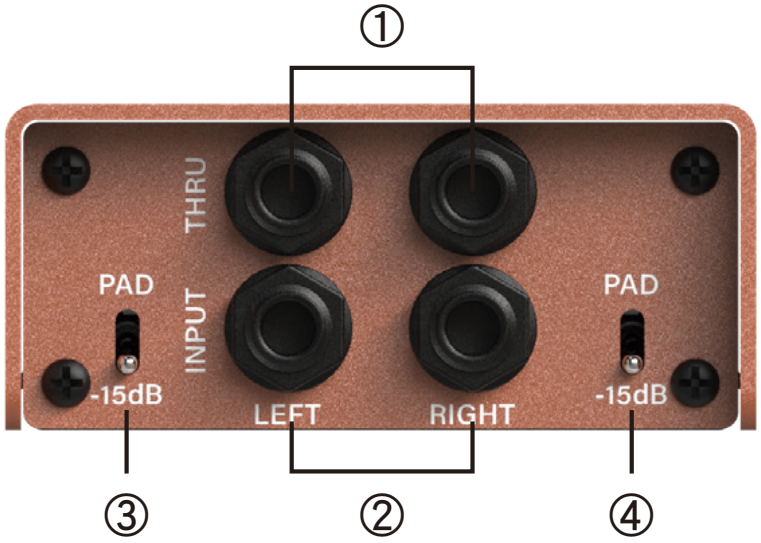
Connection & Operating Guidelines

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.

Controls & Connectors



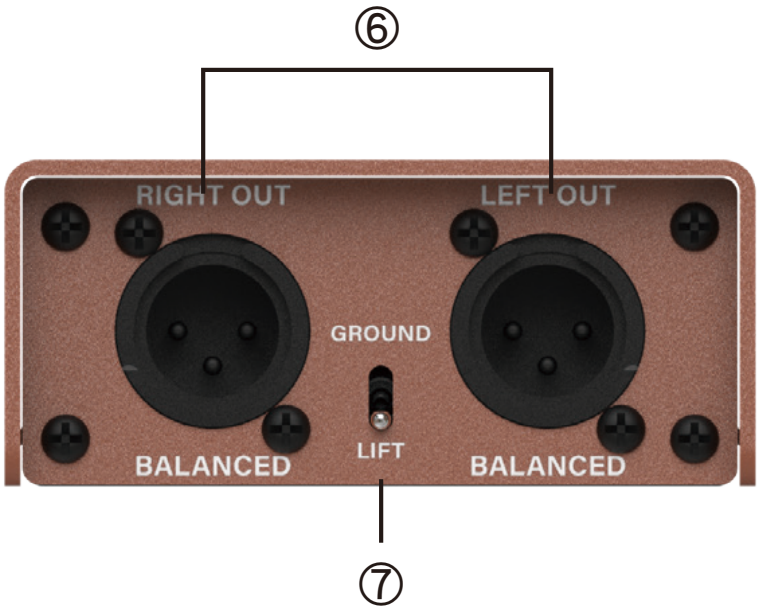
① 1/4" THRU (Parallel Outputs):
Hardwired direct outputs that pass the instrument signal directly to stage amplifiers or personal monitoring rigs without loading the source.

②1/4" INPUT (Instrument Inputs):
High-impedance unbalanced inputs for Left and Right channels.

③ PAD (-15 dB Attenuation):
Reduce the input sensitivity of the left channel to prevent overload.

④ PAD (-15 dB Attenuation):
Reduce the input sensitivity of the right channel to prevent overload.

Reduces input sensitivity to prevent preamp clipping from high-output sources such as active basses, digital pianos, or DJ gear.

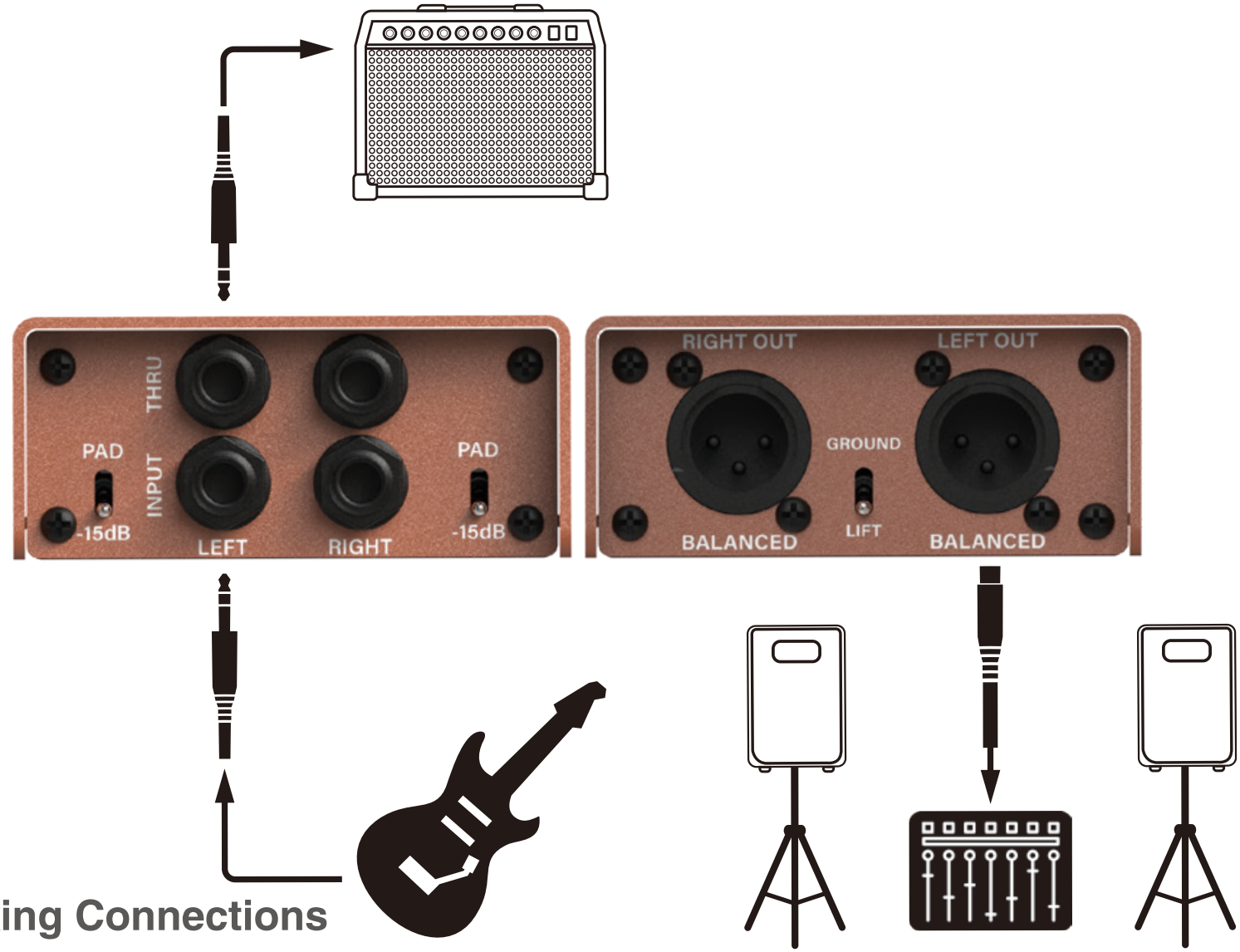


⑥ XLR BALANCED OUTPUTS:

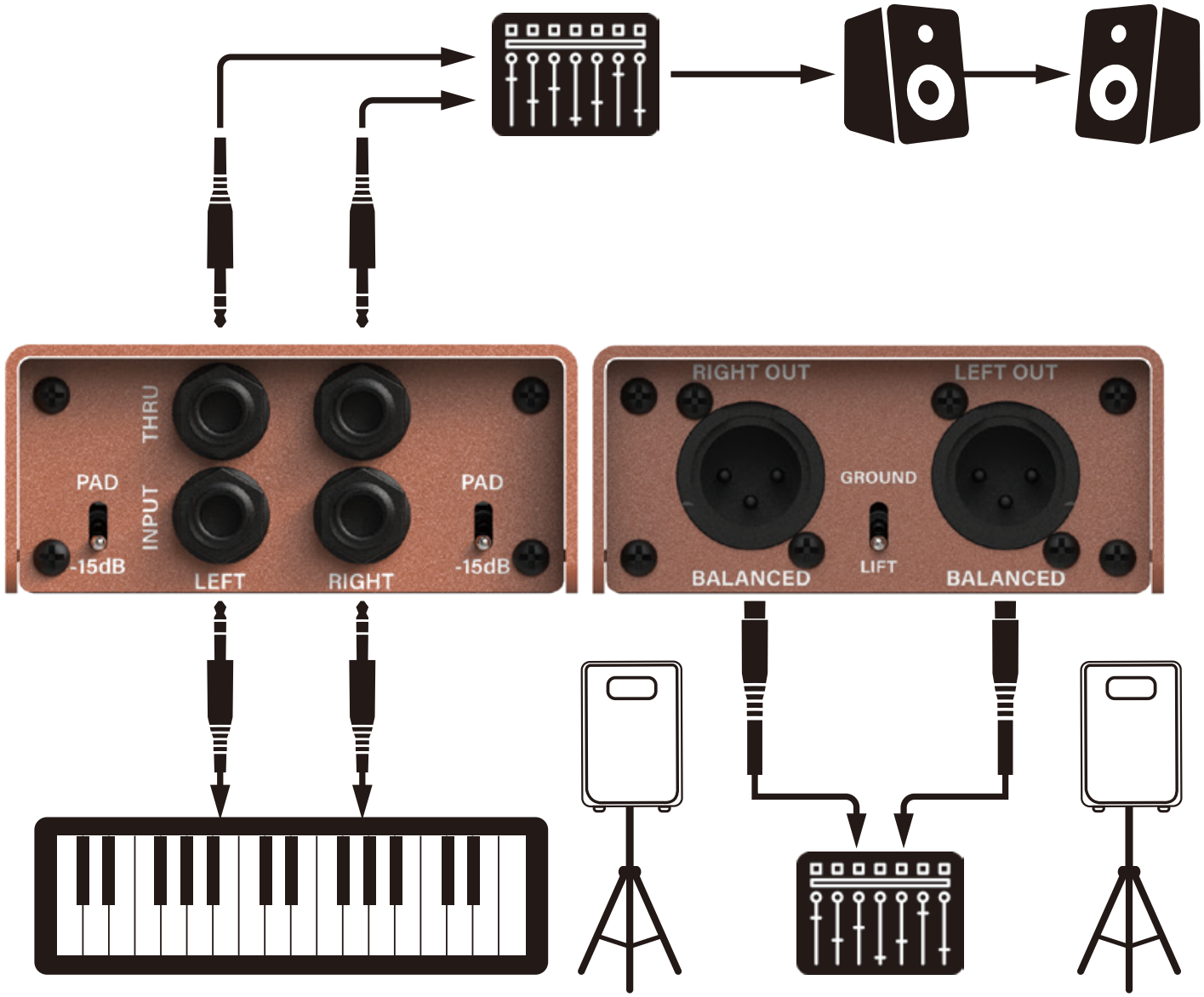
Low-impedance balanced microphone-level outputs (Pin 1: Ground / Pin 2: Hot (+) / Pin 3: Cold (-)).

⑦ GROUND LIFT Switch:

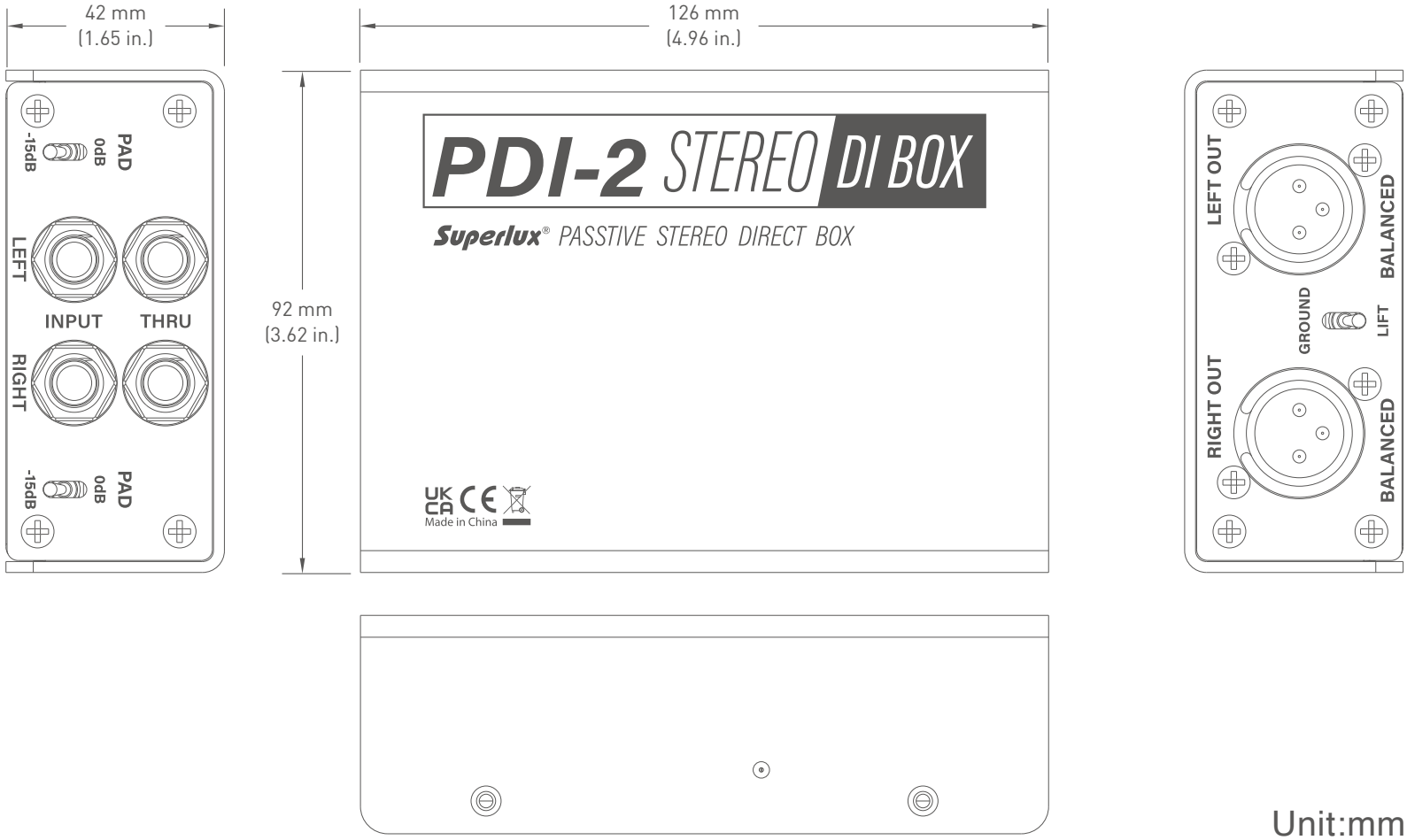
Disconnects Pin 1 ground on both XLR outputs to break ground loops and eliminate 50/60 Hz hum and buzz.



Making Connections


THRU
INPUT
PAD
-15dB
LEFT
RIGHT
PAD
-15dB
RIGHT OUT
LEFT OUT
GROUND
LIFT
BALANCED
BALANCED

Dimensions



Unit:mm

Specifications

*Note:Specifications are subject to change.

Audio Circuit Type	Transformer-Based Passive Circuit
Channels	2
Frequency Range	20 Hz – 20 kHz, ±0.2 dB
Dynamic Range	135 dB
Input Impedance	140 k Ω unbalanced
Total Harmonic Distortion	0.01% from 20 Hz – 20 kHz @ -10 dB
Phase Deviation	1° @ 100 Hz; 8° @ 20 Hz
Output Impedance	150 Ω XLR output
Max. Input Level	+21 dB
Input Pad	0 dB / -15 dB
Ground Lift	Yes
Inputs	2 × 1/4" Input
Thru	2 × 1/4" Thru
Outputs	2 × XLR Output

Specifications	
Power Supply	Not required
Dimensions	126 × 92 × 42 mm (4.96 × 3.62 × 1.65 in.)
Net Weight	838 g (29.55 oz)

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