Superlux®

DI-108

SINGLE-CHANNEL ACTIVE DI BOX

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Instruction Manual

DI-108

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Description

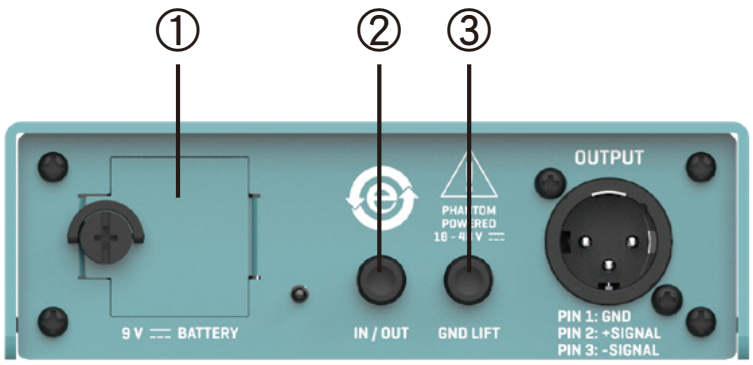
The DI-108 is a single-channel active DI box designed for live sound and studio recording. It converts high-impedance, unbalanced audio signals into low-impedance, balanced outputs, helping reduce noise interference over long cable runs. A built-in output isolation transformer, combined with a Ground Lift switch, helps minimize ground-loop hum for reliable connections between audio devices. Equipped with 1/4” and XLR inputs, the DI-108 accommodates electric guitars, basses, keyboards, DJ mixers, and other audio sources. Two -20 dB attenuation switches provide up to -40 dB of input attenuation to help prevent distortion from high-level signals. The 1/4” parallel LINK output allows simultaneous connections to a mixing console and an instrument amplifier or monitoring system, offering flexibility for different stage and studio setups. The DI-108 supports 18–48V phantom power or 9V battery operation, featuring a battery ON/OFF switch and automatic pow-

er switching when phantom power is available to conserve battery life. Battery operation also enables use with equipment that does not provide phantom power. A rugged metal housing makes it suitable for stage and studio environments.

Features

- Single-channel active DI design.
- 1/4” and XLR inputs.
- Dual -20 dB attenuation switches, up to -40 dB.
- Output isolation transformer and Ground Lift function.
- 1/4” parallel LINK output.
- 18–48V phantom power or 9V battery operation with battery ON/OFF control and automatic power switching.
- Rugged metal housing.

Controls & Connectors



① BATTERY COMPARTMENT:

Loosen the screws to open the battery compartment and replace the 9V battery. When the DI-108 is powered by battery, the indicator light flashes; when it stops flashing, the battery should be replaced.

② ON/OFF Battery Switch:

When turned off, the DI-108 is powered by phantom power. When turned on, the DI-108 automatically switches between battery and phantom power. When the DI-108 is powered by battery, the ON/OFF indicator light flashes every few seconds; when powered by phantom power, battery power is automatically cut off and the indicator light remains steadily lit.

③ OUTPUT: Balanced Microphone Level Output:

When connecting to a microphone input, please use a standard high-quality balanced microphone cable.



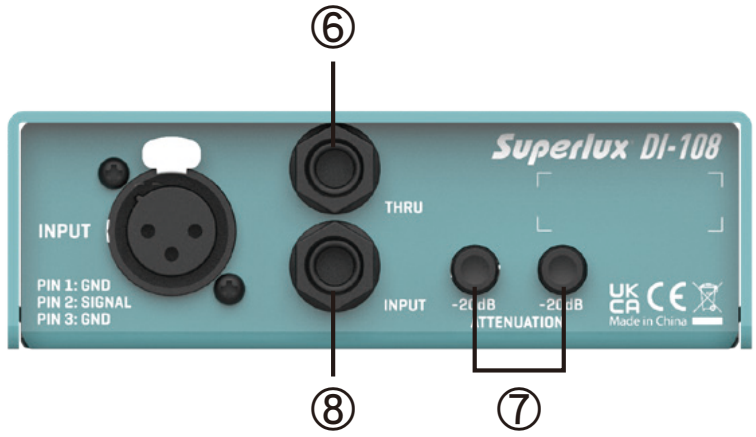


④ GND LIFT:

Connects or completely isolates the ground between the input and output terminals. If the connected equipment is grounded, ground noise will be reduced; if the connected equipment is not grounded, ground loops can be avoided. When GND LIFT is pressed, it indicates they are not interconnected.

⑤ XLR INPUT:

To increase the versatility of the DI-108, this product is equipped with an unbalanced XLR input for connecting audio sources.



⑥ Parallel Thru Output:

The parallel output is used to connect high-impedance signals to powered speakers, mixers, or personal monitoring systems.

⑦ -20 dB ATTENUATION:

Significantly increases the operating range of the DI-108. Pressing both -20 dB ATTENUATION buttons simultaneously provides 40 dB of attenuation to prevent distortion caused by excessively high input signals.

⑧ INPUT:

1/4" Input, an unbalanced high-impedance input interface used to receive signals.

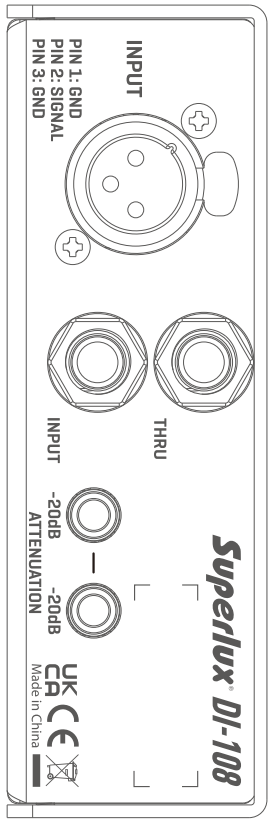
Specifications

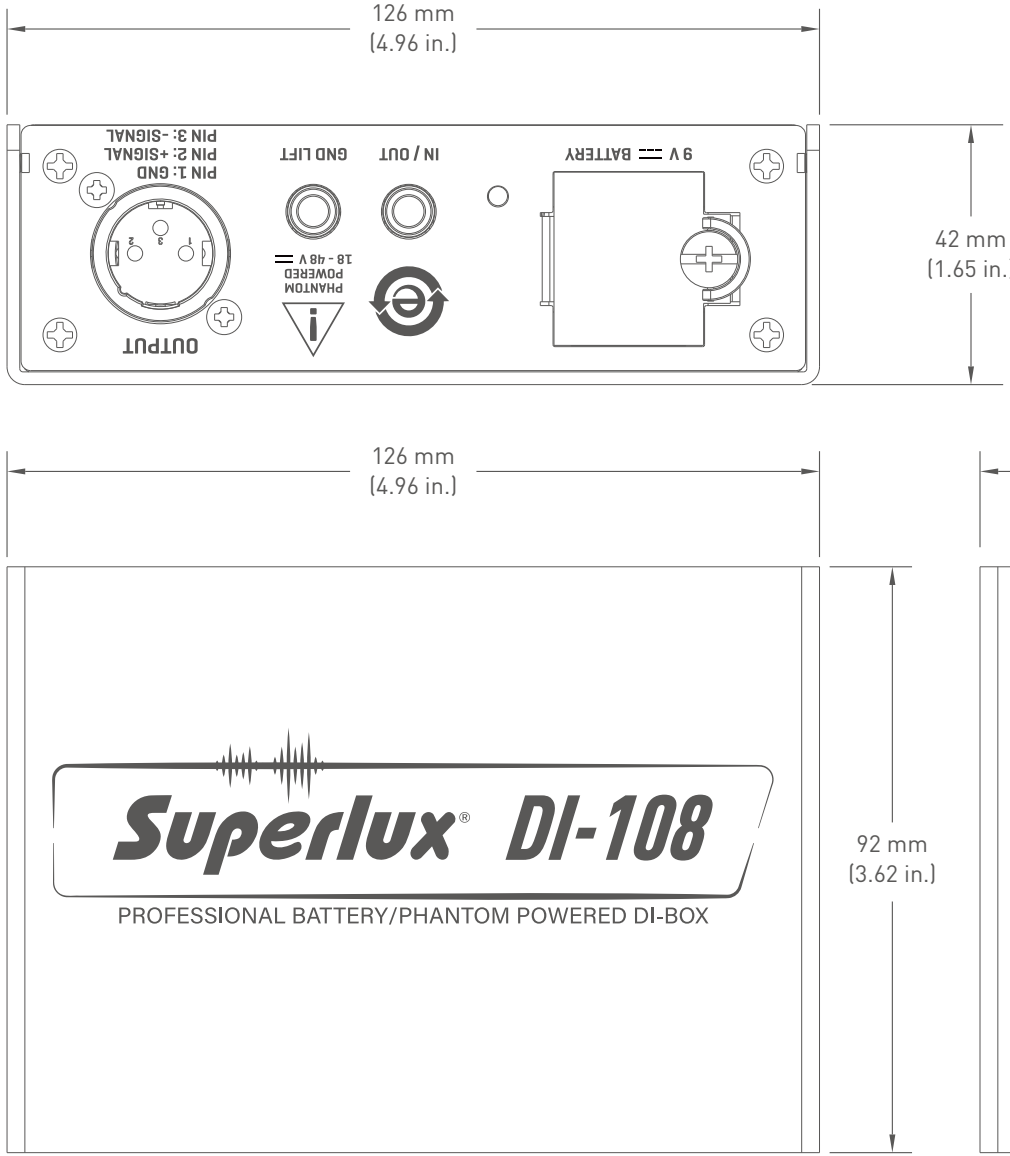
*Note:Specifications are subject to change.

Circuit Type	Active analog circuitry
Phantom Power	18 V DC — 48 V DC
Power Requirement	9 V 6LR91
Input Connectors	1/4" Unbalanced Jack and XLR Female
Output Connectors	XLR Balanced Output + 1/4" Parallel Thru Output
Max Input Level	+10 dBu / +30 dBu/ +50 dBu
Frequency Response	20Hz - 20kHz
Input Impedance	> 250k Ω
Output Impedance	> 600 Ω
Total Harmonic Distortion	< 0.005%
Equivalent Noise Floor	> -110 dBu
Shell material	Metal
Dimensions (L × W × H)	126 × 92 × 42 mm (4.96 × 3.62 × 1.65 in.)
Weight	710 g (25.04 oz)

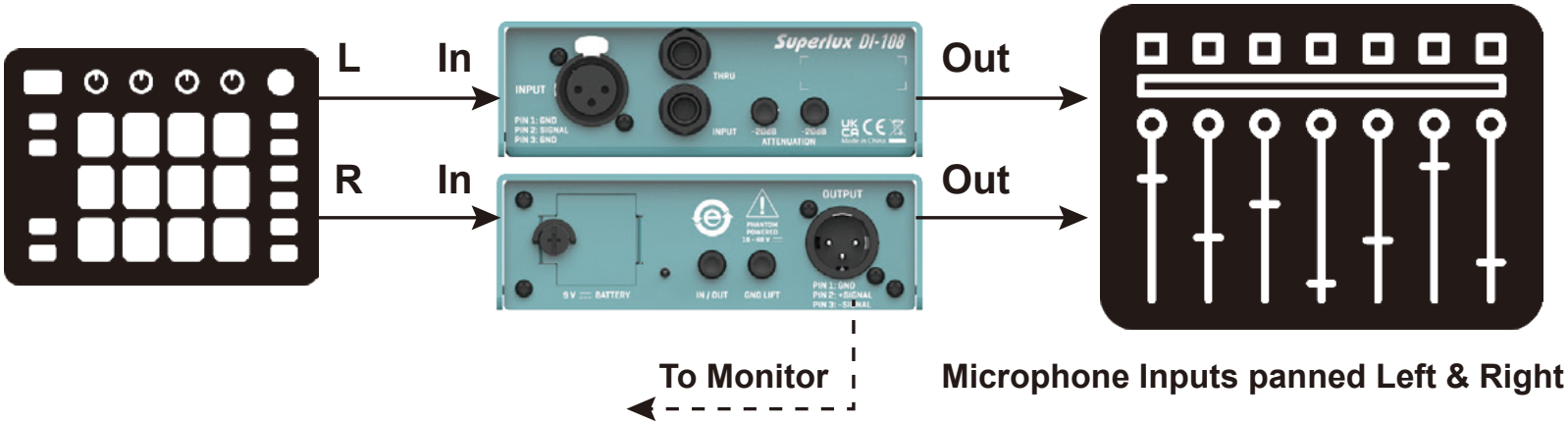
Dimensions

Unit:mm





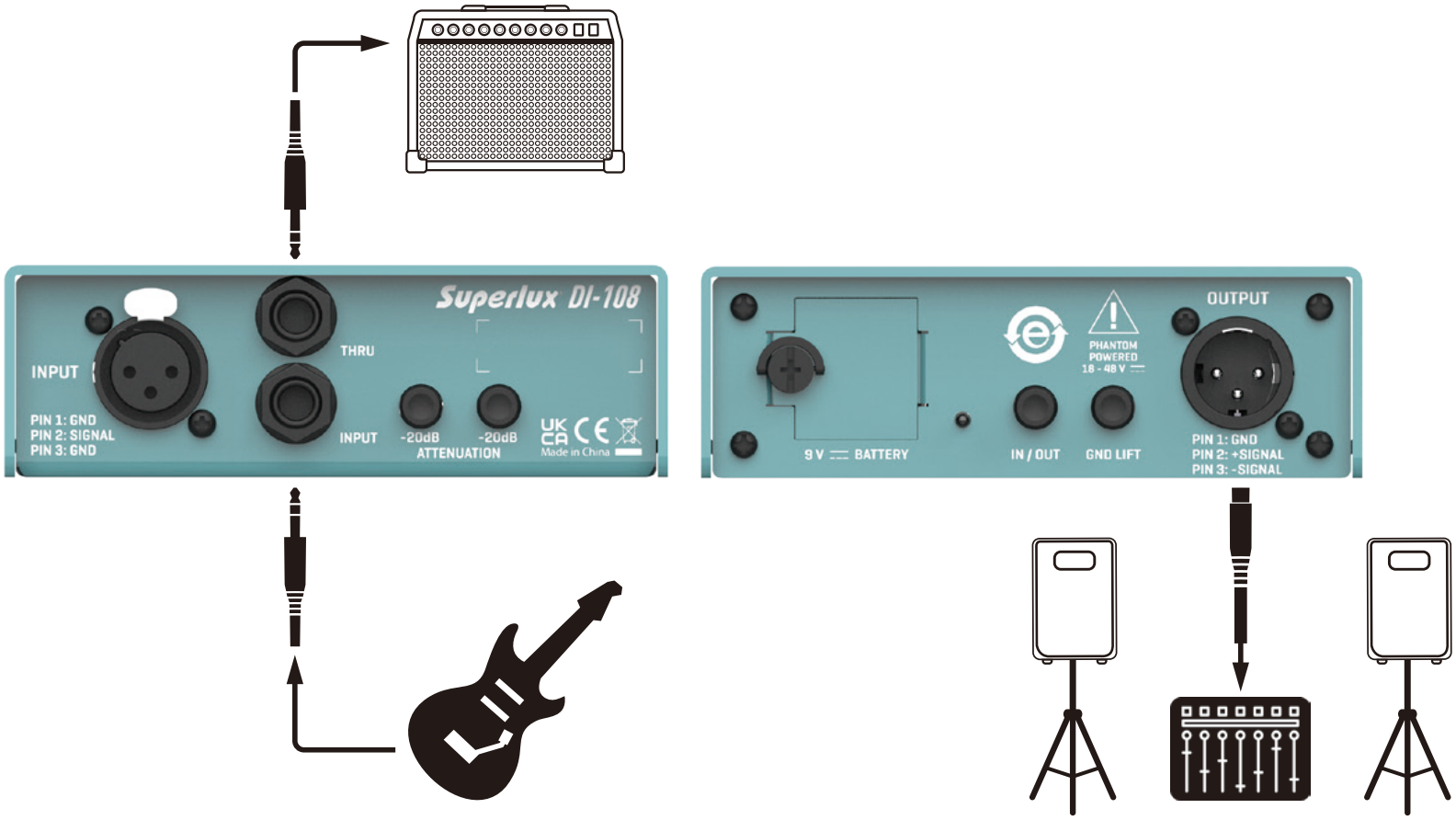
Making Connections



Connecting Keyboard / DJ Mixer / Headphone Jack Output

This configuration can be used with keyboards, DJ mixers, headphone outputs, drum sets, or any (stereo/mono) audio source. In situations requiring long signal cable runs, such as sending to a front-of-house console, the best setting is usually to press one of the -20 dB attenuation buttons to avoid overloading the stage controller. If keyboardists, DJs, etc., wish to connect monitoring equipment independent of the

fold back mix, the signal can be connected to another amplifier via this device. The DI-108 functions as both a ground isolator and an unbalanced-to-balanced converter.



Getting Signal from Bass and Guitar

The D-108 features a 1/4" input, 1/4" THRU output, and balanced XLR output interface. Connect the signal source device to the input, and connect the balanced XLR output to a sound reinforcement system or recording equipment. The THRU interface can output in parallel to connect high-impedance signals to powered speakers, mixers, or personal monitoring systems. Unbalanced cables are more susceptible to noise interference than balanced cables.

Keeping unbalanced cable lengths under 8 meters (25 feet) is a good practice, while balanced cables can easily be extended up to 100 meters (300 feet). If the mixer can provide phantom power between 18V DC and 48V DC, the DI-108's built-in battery will automatically disconnect. This option should be chosen whenever possible to save battery power.

Contact

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