

GELDING BOUTIQUE AUDIO GEAR

GDI ACTIVE DIRECT BOX

User Manual & Technical Specification



1. Product Description & Features

The **GELDING GDI Active Direct Box** is a high quality active DI box designed for professional studio recording and live performance. It converts a high-impedance, unbalanced signal (electric guitar, bass, keyboards) into a low-impedance, balanced signal suitable for long cable runs without loss of sound quality.

Key Features:

- **Boutique handcrafted build:** precision, unit-by-unit construction with premium components for maximum sound fidelity.
- **Exceptional transparency:** wide frequency response and minimal phase distortion preserve the natural character of the instrument.
- **+48V phantom power:** reliable operation directly from a mic preamp, with no batteries to change.
- **Rugged aluminum chassis:** ribbed extruded aluminum housing provides excellent mechanical durability and RF shielding.
- **THRU pass-through output:** allows the signal to be sent simultaneously to the console and to a stage amp.

2. Technical Specifications

PARAMETR	SPECIFICATION / VALUE
Device Type	Active Direct Box (DI Box)
Frequency Response	20 Hz to 80 kHz (±1 dB)
Input Impedance (INPUT)	10 MΩ (unbalanced)
Output Impedance (OUT)	600 Ω (balanced)
Gain	-9.88 dB
Power Requirements	+48 V DCPhantom Power / 5.2 mA (via XLR)
Maximum Input Level (1% THD)	9.5 Vpp / +10.5 dBV / +12.7 dBu
Signal-to-Noise Ratio (SNR)	126.5 dB
Total Harmonic Distortion (THD)	< 0.03% @1 kHz, 1 Vpp
Noise	-116 dBV (-119 dBV-A)
Input Connectors	1x 6.3 mm TSJack (INPUT), 1x 6.3 mm TSJack (THRU)
Output Connector	1x 3-pin XLRMale (OUT)
Dimensions (W x D x H)	100 mm x 66 mm x 43 mm
Weight	0.3 kg

3. Panel Overview & Controls



FRONT PANEL (INPUT)

INPUT

Instrument jack input, 6.3 mm (guitar, bass, synthesizer).

THRU

Parallel, unprocessed signal output to a stage amp or monitor.

LED Indicator

Red LED indicates active +48V power supplied from the console / interface.



REAR PANEL (OUTPUT)

OUT (XLR Male)

Balanced output for connection to a mic preamp or mixing console.

Rugged Chassis

Extruded aluminum with anodized surface protecting internal circuitry from interference.

4. Connection & Usage Procedure

1. Connect your instrument to the **INPUT** jack on the front panel using a 6.3 mm TS guitar cable.
2. (Optional) Run a cable from the **THRU** connector to your instrument amp or stage combo.
3. Connect the rear **OUT** connector to the mic input of your audio interface or mixer with a balanced XLR cable.
4. Switch on **+48V phantom power** on the corresponding mic input. The red LED on the front panel will light up.

Safety Instructions and Warranty

Do not expose the unit to rain, moisture, or direct heat. Clean only with a dry cloth. This product carries a 24-month warranty from the date of purchase. Manufactured as boutique, custom-made hardware in the Czech Republic.