

BEHRINGER ULTRA-DI DI400P



Thank you for showing confidence in BEHRINGER products by purchasing the ULTRA-DI DI400P. The DI400P is a high-performance passive direct injection box.

Please read the safety instructions that appear at the end of this document.

Being on stage or in the studio, musicians often look for ways to connect certain signal sources directly to the mixing console. Even though this approach has obvious advantages, there are still some technical hurdles obstructing its implementation. For example, keyboards seldom feature balanced outputs, and guitars can not be directly connected to mixing consoles because of the high impedance of guitar signals. GB

The DI400P lets you **directly** tap into a high-impedance, unbalanced signal—for example, the signal between a guitar and a guitar amp. From there on, you can feed the signal directly to a mixing console.

1. CONTROL ELEMENTS AND CONNECTIONS

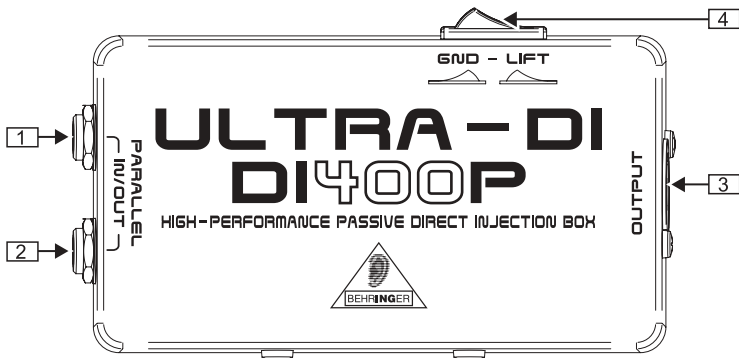


Fig. 1: Top view

- 1** + **2** **PARALLEL IN/OUT** (¼" TS): These connectors are used for connecting unbalanced signal sources. Because both connectors are wired in parallel, they can be used both as an input and as a direct output to loop the signal through to a monitor amplifier.
- 3** **OUTPUT (XLR)**: This is the balanced mic-level output. Use a high-quality balanced microphone cable to establish connection.
- 4** Using the **GND LIFT** (ground lift) switch, you can fully separate input and output grounding. Depending on how the equipment to which your DI400P is connected is grounded, using the GND LIFT switch lets you lower hum noise or ground loops. When the GND LIFT switch is in LIFT position, the ground connection is interrupted.

The **SERIAL NUMBER** of the DI400P is located at the bottom.

2. CONNECTING AN INSTRUMENT SIGNAL

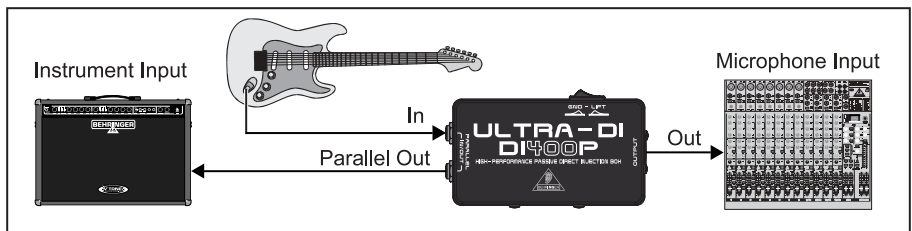


Fig. 2: Guitar → DI-box → guitar amp/mixer

This illustration shows the application of a DI-box. The signal feeding the amplifier remains unchanged; it is simply taken and routed into the amp. The low-impedance balanced signal is forwarded to the mic input of the mixing console. This application has its advantages particularly with bass guitars, because very few microphones can linearly transmit bass frequencies with high signal levels. If you are using effects, insert the DI400P after the effects device, so that you can monitor the effects via the PA system or the recording as well.

3. SPECIFICATIONS

Frequency response	40 Hz (-3 dB) to 20 kHz
THD+N (distortion)	0.007% @ 1 kHz, input level +4 dBu
INPUT	¼" TS (unbalanced)
Level change (input \Rightarrow output)	-20 dB
OUTPUT	Balanced XLR
Impedance ratio (input \Rightarrow output)	110 : 1
Dimensions (H x W x D)	1.4" x 4.7" x 2.6" (35 mm x 120 mm x 66 mm)
Weight	approx. 0.44 lbs (0.2 kg)

BEHRINGER continuously strives to assure the highest quality standards possible. Required modifications may be implemented without prior notice. Technical data and the appearance of the unit may deviate from the above values and/or illustrations.

4. WARRANTY

For our current warranty terms, please refer to our website at <http://www.behringer.com>

SAFETY INSTRUCTIONS

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Install in accordance with the manufacturer's instructions.
- 8) Only use attachments/accessories specified by the manufacturer.
- 9) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way.

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