

# ULTRA-DI DI600P

EN

Thank you for showing confidence in BEHRINGER products by purchasing the ULTRA-DI DI600P. The DI600P 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.

The DI600P 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



Fig. 1: Top view

- 1 Use the **INPUT** (1/4" TS) connector for connecting signal sources.
  - 2 **OUTPUT** (1/4" TS). This is the unbalanced parallel output. Connect it to the input of your backline or monitor amplifier.
- Because the connectors 1 and 2 are wired in parallel, the OUTPUT connector can be used both as an input and as a direct unbalanced output of the INPUT signal. For the latter, you can for example connect OUTPUT with the input of 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 DI600P 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.
  - 5 The **INST/AMP** attenuation switch (30 dB) increases the operating range of the DI600P considerably, from low signal levels of a high-impedance mic or a guitar (INST), all the way to speaker connectors of a guitar amplifier (AMP).
  - 6 Switchable **FILTER** for guitar applications (7.5 kHz, -3 dB).

The **SERIAL NUMBER** of the DI600P is located at the bottom.

## 2. Applications

### 2.1 Connecting an instrument signal

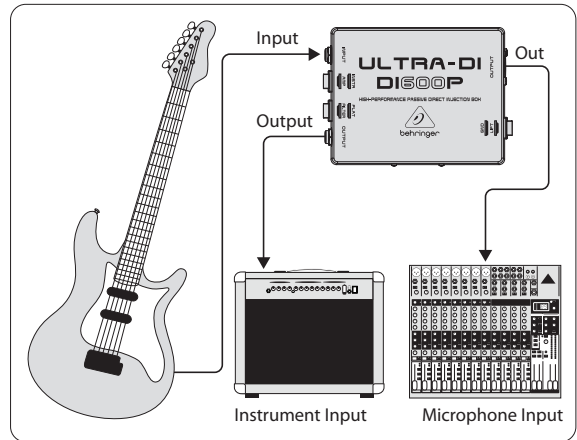


Fig. 2: Guitar → DI-box → guitar amp/mixer

This illustration shows the standard application of a DI-box. The signal feeding the amplifier remains unchanged; it is simply taken and routed into 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 DI600P after the effects device, so that you can monitor the effects via the PA system or the recording as well.

### 2.2 Taking a signal from a speaker output

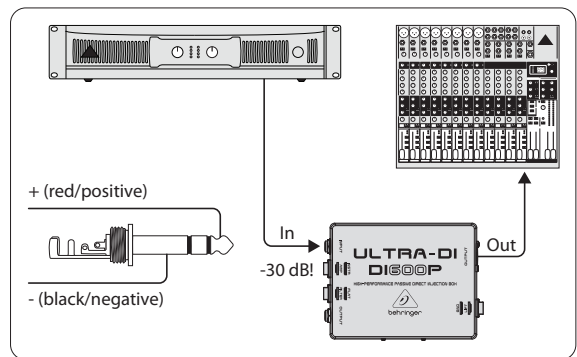


Fig. 3: Connection to a power amp output

Sometimes, you want to take a signal directly from a speaker output, even though just one speaker output is available. When you set the INST/AMP switch to AMP, you can connect an amp output to your mixing console (up to 3,000 Watts into 4 Ohms), without worrying that it will be damaged due to overload!



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- ◇ If you are using a tube amp, you must connect a speaker or a similar load resistance to the parallel ¼" TS output.
- ◇ Before connecting to a loudspeaker connector, please make sure that the GROUND LIFT switch is in LIFT position (no ground connection). This prevents accidental shorting of the amp output. Besides, the tip of the input connector should be connected to the speaker connector marked with red. The metal casing of the DI600P should in no case have physical contact to other equipment.

## 3. Specifications

Frequency response	40 Hz (-3 dB) to 20 kHz
THD+N (Distortion)	0.003% @ 1 kHz, input level +4 dBu
Input	¼" TS (unbalanced)
Level change (input → output)	-20 dB
Output	Balanced XLR
Impedance ratio (input → output)	110 : 1
INST/AMP switch	30 dB pad
Filter switch	Low pass @ 7.5 kHz (-3 dB)
Dimensions (H x W x D)	1.4 x 3.75 x 5" (35 x 95 x 128 mm)
Weight	approx. 0.66 lbs (0.3 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 the applicable warranty terms and conditions and additional information regarding MUSIC Group's Limited Warranty, please see complete details online at [www.music-group.com/warranty](http://www.music-group.com/warranty).

### EN Important 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.
- Service is required when the apparatus has been damaged in any way.

### ES Instrucciones de seguridad

- 1) Lea las instrucciones.
  - 2) Conserve estas instrucciones.
  - 3) Preste atención a todas las advertencias.
  - 4) Siga todas las instrucciones.
  - 5) No use este aparato cerca del agua.
  - 6) Limpie este aparato con un paño seco.
  - 7) No instale el equipo cerca de fuentes de calor.
  - 8) Use únicamente los dispositivos o accesorios especificados por el fabricante.
  - 9) Confíe las reparaciones únicamente a servicios técnicos cualificados.
- Se requiere mantenimiento siempre que la unidad haya sufrido algún daño.

### RU Указания по технике безопасности

- 1) Прочитайте эти указания.
- 2) Сохраните эти указания.
- 3) Выполняйте эти указания.
- 4) Следуйте всем инструкциям по обслуживанию.
- 5) Не пользуйтесь прибором в непосредственной близости от воды.
- 6) Протирайте прибор сухой тряпкой.
- 7) Не располагайте прибор рядом с источниками тепла.
- 8) Применяйте только рекомендованные производителем дополнительные приборы/принадлежности.
- 9) Поручите выполнение работ по обслуживанию прибора только квалифицированному персоналу сервисной службы. Техническое обслуживание требуется если прибор был каким-то образом поврежден.

### CN 详细安全说明

- 1) 请您阅读这些说明。
- 2) 请您妥善保存这些说明。
- 3) 请您注意所有的警告说明。
- 4) 请您遵守所有的操作说明。
- 5) 请您不要在水附近运行此机器。
- 6) 请您用干布清洁此机器。
- 7) 请您不要将此机器放置在热源附近。
- 8) 请您只使用制造厂认为合适的附加机器/配件。
- 9) 请您只允许具备资格的服务人员进行保养工作。当机器有损坏时,要进行维修保养。

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