

Behringer DI20

Behringer Ultra-DI DI20 Professional Active 2-Channel DI-Box/Splitter User Manual

Model: DI20 | Brand: Behringer

1. INTRODUCTION

The BEHRINGER ULTRA-DI DI20 is a versatile direct injection (DI) box designed for both stage and studio applications. It efficiently converts unbalanced 1/4" TRS line inputs into balanced XLR outputs, providing impedance and signal matching for direct connection of instruments to mixers and amplifiers. Its unique Split mode allows for flexible signal routing, making it an indispensable tool for musicians and audio engineers.

2. KEY FEATURES

- **Superior Sound:** Ultra-flat frequency response from 10Hz to 70kHz for pristine audio.
- **Ultimate Versatility:** Converts unbalanced to balanced signals with 1/4" and XLR connectivity.
- **Low-Noise Performance:** Exceptionally low noise floor of 100dBu for clear recordings.
- **Optimized Impedance:** Matches instrument or audio source impedance to prevent signal loss.
- **Broad Gain Range:** Selectable max input range of +12/+32/+52dBu for various input levels.
- **Dual Channel/Split Mode:** Functions as two independent DI boxes or splits a single signal to two outputs.
- **Phantom Power or Battery Operation:** Can be powered by mixer's phantom power or a 9V battery.
- **Ground Lift Switch:** Eliminates ground loop problems.
- **Durable Construction:** Ultra-rugged, road-suitable metal case.

3. SETUP AND CONNECTIONS

The DI20 offers flexible connectivity for various audio setups. Ensure all connections are secure before powering on the unit.

3.1 Front Panel Overview





BAL/UNBAL



CH 1 IN
BAL/UNBAL



CH 1 OUT (LINK)



CH 2 IN
CH 1 OUT (LINK)



0 dB
20 dB
40 dB

ATTENUATION



LINK
2-CH

MODE



LIFT
GND

GROUND

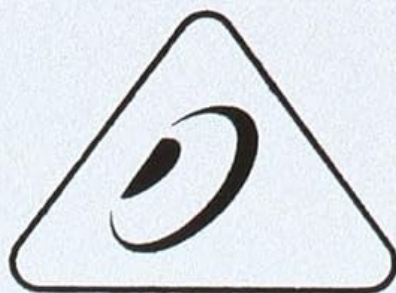


ON
OFF

BATTERY

ULTRA-DI DI20

PROFESSIONAL ACTIVE 2-CH DI-BOX/SPLITTER



PHANTOM OR
9V BATTERY
POWERED

behringer

Figure 1: Front panel of the Behringer Ultra-DI DI20, highlighting the input/output jacks and control switches.

- **CH 1 IN (BAL/UNBAL):** 1/4" TRS input for Channel 1. Accepts both balanced and unbalanced signals.
- **CH 2 IN (CH 1 OUT LINK):** 1/4" TRS input for Channel 2. Also functions as a link output for Channel 1 when in Split mode.
- **CH 1 OUT (BAL/UNBAL):** XLR output for Channel 1. Provides a balanced or unbalanced signal.
- **CH 2 OUT (BAL/UNBAL):** XLR output for Channel 2. Provides a balanced or unbalanced signal.
- **ATTENUATION Switch:** Adjusts input sensitivity (0 dB, 20 dB, 40 dB) to prevent clipping from hot signals.
- **MODE Switch (LINK/2-CH):** Selects operation mode. "2-CH" for two independent channels, "LINK" for splitting Channel 1's signal to both outputs.
- **GROUND Switch (LIFT/GND):** Lifts the ground connection to eliminate hum caused by ground loops.
- **BATTERY Switch (ON/OFF):** Powers the unit using a 9V battery.

3.2 Powering the DI20



Figure 2: Bottom panel of the Behringer Ultra-DI DI20, revealing the 9V battery compartment.

The DI20 can be powered in two ways:

- **9V Battery:** Insert a 9V battery into the compartment on the bottom of the unit. Ensure the BATTERY switch is set to "ON". The battery automatically shuts off when phantom power is applied.
- **Phantom Power:** Connect the XLR outputs to a mixer or device that provides +18V to +48V DC phantom power. The unit will automatically draw power from the phantom source.

4. OPERATING MODES

The DI20 offers two primary operating modes, selectable via the MODE switch:

4.1 Two-Channel Mode (2-CH)

In this mode, the DI20 functions as two independent direct boxes. Each channel (CH 1 and CH 2) operates separately, converting its respective 1/4" input to an XLR output. This is ideal for connecting two different instruments (e.g., two guitars, or a guitar and a keyboard) to a mixer.

4.2 Link/Split Mode (LINK)

When the MODE switch is set to "LINK", the signal from CH 1 IN is split and sent to both CH 1 OUT and CH 2 OUT. This allows you to send a single instrument's signal to two different destinations simultaneously. For example, you can send one output to the main mixer for the house sound and the other to a guitar amplifier on stage for monitoring.

5. MAINTENANCE

The Behringer Ultra-DI DI20 is built for durability. To ensure its longevity:

- Keep the unit clean and free from dust and debris.
- Avoid exposing the unit to extreme temperatures or moisture.
- When not in use, switch the BATTERY to "OFF" to conserve battery life.
- If using battery power, replace the 9V battery when the indicator light dims or the audio signal weakens.

6. TROUBLESHOOTING

Common issues and their solutions:

- **No Sound:** Check all cable connections. Ensure the unit is powered (battery "ON" or phantom power active). Verify input and output levels.
- **Hum or Buzz:** Activate the GROUND LIFT switch. Ensure all cables are in good condition and properly shielded. Check for other electrical interference in the setup.
- **Distorted Sound:** Reduce the input signal level using the ATTENUATION switch (20 dB or 40 dB) if the source signal is too hot.
- **Battery Drains Quickly:** Ensure the BATTERY switch is set to "OFF" when the unit is not in use. Replace with a fresh 9V battery.

7. SPECIFICATIONS

Feature	Specification
Power Source	Battery Powered (9V) or Phantom Power (+18V to +48V DC)


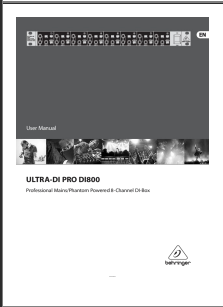
Number of Channels	2
Item Weight	8.5 ounces (0.53 Pounds)
Product Dimensions	4.13 x 2.52 x 1.61 inches
Connectivity Technology	XLR
Included Components	Active 2 Channel DI Box
Material	Metal (Others)
Model Name	DI20
Manufacturer	Behringer

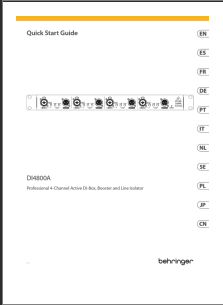
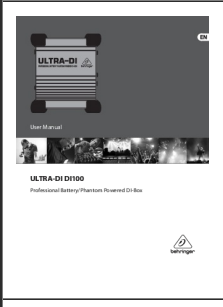

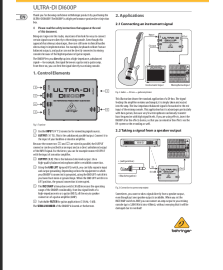
8. WARRANTY AND SUPPORT

For detailed warranty information and technical support, please refer to the official Behringer website or the full User Guide PDF available at <https://manuals.plus/m/2978c9184d63e12429de820d4c17bdd6dd24c242aa8f65c2f708e4bbb91f349>. Behringer is committed to providing high-quality audio solutions. Should you encounter any issues not covered in this manual, please contact Behringer customer support.

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Related Documents - DI20

	<p>Behringer ULTRA-DI DI20 Active DI Box User Manual</p> <p>User manual for the Behringer ULTRA-DI DI20, an active 2-channel DI box designed for connecting instruments and audio sources to mixing consoles. Learn about its features, controls, and connection options.</p>
	<p>Behringer ULTRA-DI PRO DI800 User Manual</p> <p>User manual for the Behringer ULTRA-DI PRO DI800, an 8-channel DI-box. Provides information on features, applications, connections, and specifications.</p>

	<p>Behringer DI4800A Quick Start Guide: Professional 4-Channel Active DI-Box</p> <p>Get started quickly with the Behringer DI4800A, a professional 4-channel active DI-box, booster, and line isolator. This guide provides essential setup and safety information.</p>
	<p>Behringer ULTRA-DI DI100 User Manual: Professional DI-Box Guide</p> <p>Comprehensive user manual for the Behringer ULTRA-DI DI100, a professional battery/phantom powered DI-Box. Learn about its features, configurations, safety instructions, and specifications.</p>
	<p>Behringer ULTRA-G GI100 Quick Start Guide</p> <p>Quick start guide for the Behringer ULTRA-G GI100, a professional battery/phantom powered DI-Box with guitar speaker emulation. Includes setup, controls, and specifications.</p>
	<p>Behringer ULTRA-DI DI600P Passive DI Box: User Guide and Specifications</p> <p>A comprehensive guide to the Behringer ULTRA-DI DI600P passive direct injection box, covering its features, applications, specifications, and warranty information. Learn how to connect instruments and speakers for optimal audio signal routing.</p>