



DI-2 & DI-3 Active Direct Injection Boxes User Guide

MTR's Active Direct Injection Boxes take a signal from an instrument (guitar, bass, keyboard etc.) and, by presenting a very high impedance to the instrument and balancing the output, prepares it for direct connection without level or frequency losses to a mixing console in the studio or live on stage.

Connections: Connect the instrument to the jack socket marked Input, using a mono jack plug. This socket switches the battery on and off, so remove the jack plug after use. If needed, a second mono jack-to-jack lead can be connected from the Link socket to the input of an instrument amp, so that the musician can monitor himself on stage or in the studio.

The balanced XLR Output socket (pin 2 hot) should be connected via a balanced 2 core screened lead to the stage box, or input socket of the mixer.

Ground: The Ground switch is used to eliminate hum loops. Start with the switch in the 'GND' position, and if hum occurs due to an earth loop with the instrument amp or mixer, switch to 'LIFT'.

Attenuator: The 3 way attenuator allows accurate input level matching: start at 0dB and decrease to -20 or -40 if distortion occurs. Use the -40dB setting for speaker outputs from, for example, guitar amps.

Power: Both models run on an internal 9 volt battery (not supplied), accessed by removing the lid. If the console can supply phantom power, this can be used to run the unit just by connecting the Output socket to a mic input of the mixer, up to a maximum of 48v. It is not necessary to remove the battery, but, if a battery is not fitted, we recommend that the plastic sleeve supplied is left over the battery terminal clip to prevent possible shorting. The DC input can also be used to connect an external 9 volt DC supply, this should be a regulated model to avoid hum.

The DI-2 two channel version is literally two DI-3's in one box, for stereo keyboards or simply two mono channels. All the above applies, plus: only channel 1 will accept phantom power (to prevent two feeds of phantom power entering), but this will supply power to both channels. If only 1 channel is needed, use channel 1 rather than 2, **channel 2 will not work** on it's own without a jack plug inserted into the Input socket of channel 1. This is to allow the battery low led to monitor both channels. When both channels are used, the ground lift should be in the same position on each channel. The DI-2 can also be used as a **balanced signal splitter** by inserting a short jack to jack lead from the link out jack of channel 1 to the input jack of channel 2: a balanced signal from channel 1 will now appear on both XLR outputs. The attenuation switches remain working independently. Made in Britain.

Specifications

Frequency response:	20Hz-20KHz ± 1.5dB	Input impedance:	1MΩ, jack + jack link
Output Impedance:	600Ω, bal. XLR, pin 2 hot	Attenuation switch:	-40dB, -20dB, 0dB
Signal/Noise:	-103dBu	DC input:	9v, 100mA, neg. centre pin
T.H.D:	<0.005 @ 1KHz	Low battery led:	Indicates @ approx. 4.5v



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