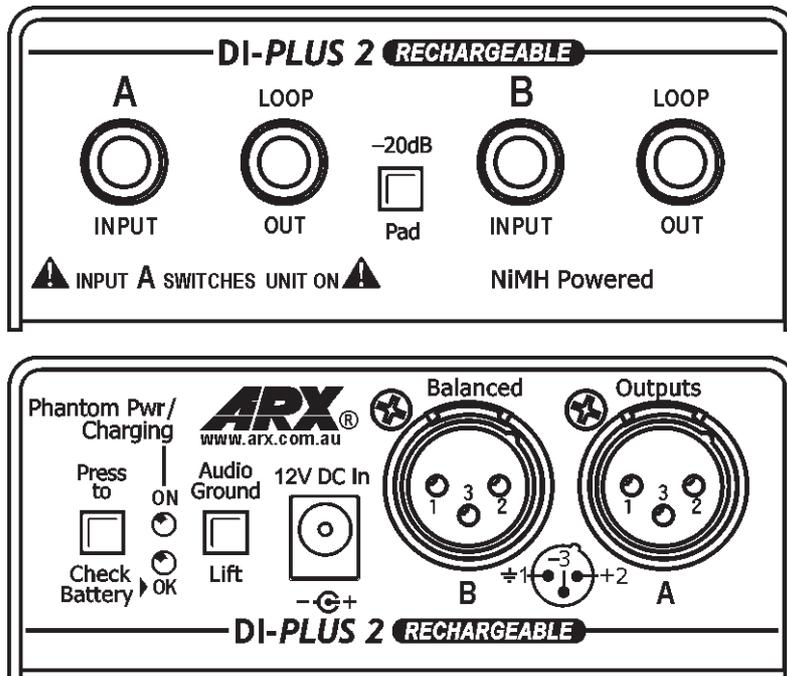


DI-PLUS 2-RC



Dual Channel Rechargeable Active Direct Box

PHANTOM, EXTERNAL DC AND NIMH BATTERY POWERED IN A RUGGED STEEL CHASSIS



Working with the pedigree of our industry standard DI Plus and DI Plus 2 Direct Boxes, we've redesigned and updated our circuitry and packaging, and the end result is our new DI Plus2-RC Direct Box.

• Rechargeable Battery

As a manufacturer, ARX is well aware of the problems of disposing of batteries in an environmentally friendly way so we've powered the DI Plus2 RC with an internal long life NiMH rechargeable battery that can be charged off either the phantom power on the mic line, or via the 12V DC input, removing battery "throw away" as an issue.

NiMH batteries exhibit no memory effect and a long life recharge cycle.

The new DI Plus2 RC features a low noise high impedance input buffer with switchable 20dB Pad, and a low distortion high current output stage able to drive the longest cable runs. It represents another major step forward in active direct boxes. Packaged in a dual

channel standalone format, the DI Plus2 RC represents unique approach to active D.I. concepts.

• Precision engineered

Ultra quiet, ultra clean circuitry delivers maximum headroom whatever the signal. Premium grade components, plus an all-steel chassis gives excellent hum and noise specifications and superb audio quality in a tough, roadworthy package. The DI Plus2 RC features two high impedance unbalanced inputs on the front panel, running to balanced XLR outputs on the rear. Accurate Left and Right channel level matching keeps the stereo image centred.

• Level control

A global Pad switch drops both inputs by a further 20dB, making it suitable for all applications, from the softest keyboard to the hottest broadcast levels.

• Rugged all-steel case

A lot of direct boxes are fitted into brittle cast alloy cases. Not this one! The

tough all-steel inner and outer chassis of the DI-PLUS provide excellent RF/EMF shielding while making it a sturdy, heavy duty unit that is hard to dislodge, and hard to leave behind.

Whether you're a Studio or Live Sound engineer, installation contractor, or broadcast engineer, you want all the dynamics and clarity of the original sound source transferred to the mixing console. The ARX DI Plus2 RC provides a rugged, no-compromise solution to all direct injection and signal balancing requirements.

ARX also manufacture the indispensable **DI-6SM**: a 19" 1 RU AC powered unit that has 6 independent Direct boxes, each with high impedance Input and Loop out jack connectors, an infinity to +15dB level control, clip LED, balanced XLR output and individual audio ground lift switches.

It can also function as a 6 into 1 line mixer **at the same time!** A switch on the rear also changes it from a 6 into 1 mixer to a 1 into 6 mic or line splitter, each split's level being controlled by the six individual channel controls.

A true Pro Audio toolbox!

Specifications

Max Input Level

- +12 dB Phantom powered
- +6 dB Battery powered

Input Impedance

1 Meg Ohm

Max Output Level

- +12 dB - 10K Ohm load Battery or Phantom powered

Output Impedance

680 Ohms Balanced

Output Signal to Noise

- 100 dB unweighted
- 104 dB A weighted

Dynamic Range

112 dB 10K Ohm load

Distortion

- 100 Hz .0018%
- 1KHz .0028%
- 10KHz .0056%

Frequency Response

20Hz to 20KHz, ± 0.2 dB

Gain through Unit

6dB (Pad switch out)

Pad Switch

Global -20 dB attenuation

Input and Loop Out Connectors

Insulated jack

Output Connectors

3 pin XLR. Wired Pin 1 Ground, Pin 2 +Hot, Pin 3 - Cold. Global Audio Ground (Pin 1) or soft Ground switch

Construction All-steel chassis, fibreglass PCB

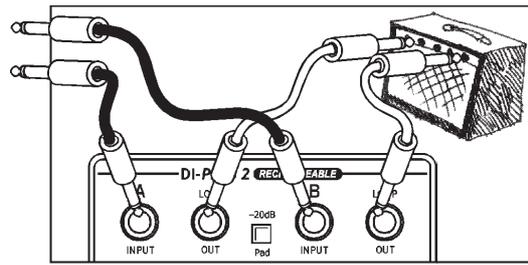
Battery Rechargeable 9V DC NiMH



Our policy is one of continuous improvement, and therefore designs may change without notice. However, unless otherwise stated, specifications will always equal or exceed those previously given.

Input

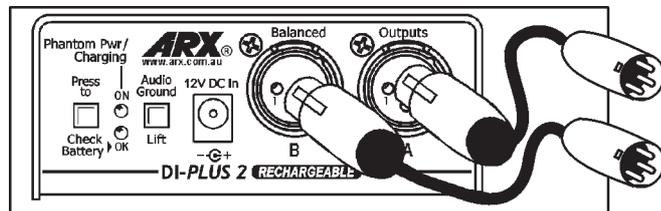
A stereo high impedance source (instrument, unbalanced lines or similar) plugs into Inputs A and B (typically Left to A and Right to B). If the signal needs monitoring, eg. an onstage amplifier,



then connect a lead from the Loop Outs of each channel to the amplifier. Pushing the Pad switch IN will reduce both input levels by -20dB if required.

Note: If you are only using **One** channel of the DI-PLUS 2-RC, make sure that you use Channel A. The Channel A Input jack switches the DI-PLUS 2-RC on.

Output connections



Connect a balanced microphone lead from each 3 pin XLR connector on the rear of the DI-PLUS 2-RC to a pair of input channels on the mixing console. Pan the channels Left or Right as required.

Pushing the Audio Ground Lift switch IN will isolate both Pin 1 outputs of the DI-PLUS 2-RC to stop Ground Loops if required.

Architectural Specifications

The Direct box shall be a dual channel unit in a stand-alone steel chassis.

It shall have two High Impedance input jacks, plus two output loop jacks. There shall also be corresponding electronically balanced XLR output connectors on the rear panel, with a single audio ground lift switch applying to both channels. A switch on the front panel shall provide a -20 dB pad to both channels throughout the unit, and another switch shall check battery condition, and indicate such with an LED. Another LED shall indicate whether Phantom power is active and the battery is charging.

The input connectors shall have an Input impedance of 1 Meg Ohms, and the input headroom shall be +12dB when Phantom powered,

and +6dB when battery powered. The frequency response shall be 20 Hz to 20 KHz, ± 0.2 dB and the Output impedance shall be 680 ohms balanced. Maximum output levels shall be +17dB, with a 10K Ohm load with Phantom power, and +12dB, with a 10K Ohm load with Battery power.

The unit shall have a Signal to Noise ratio of -100dB unweighted, and -104dB A weighted).

Distortion @ 1 KHz shall be shall be .0022%.

The unit shall have a dynamic range of 117dB with a 10K Ohm load on Phantom power, and 112 dB with a 10K Ohm load with Battery power. Gain through the unit shall be 6dB. The direct box shall be the ARX DI-PLUS 2-RC.

Latest updates always available on the ARX website - www.arx.com.au

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