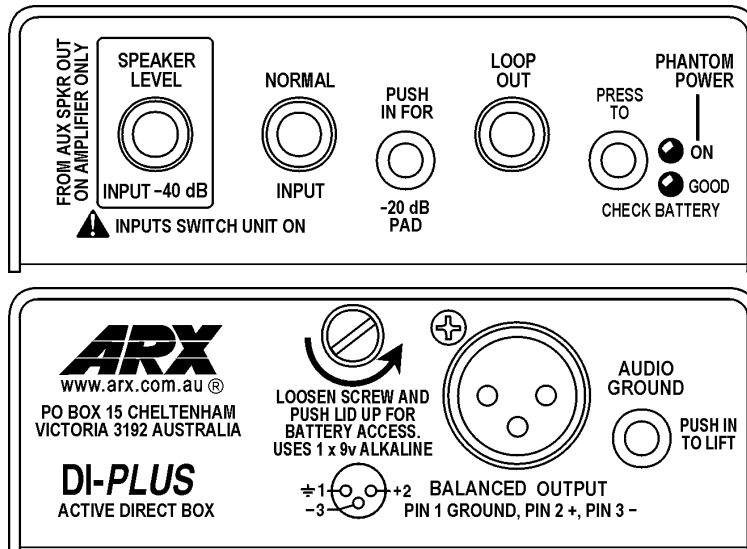


DI-PLUS

Single Channel Active Direct Box



PHANTOM OR BATTERY POWERED IN A RUGGED STEEL CHASSIS



The ARX DI-PLUS represents another major step forward in active direct boxes. Packaged in a single channel stand-alone format, the DI-PLUS represents a fresh look at 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.

- **Level control**

The DI-PLUS features a Normal gain high impedance unbalanced input on the front panel, running to a balanced XLR output on the rear. There is also a separate -40dB Speaker Level input for signal coming from the External (auxiliary) speaker output of an amplifier. A global Pad switch drops both the normal input and the speaker input by a further 20dB, making it suitable for all applications, from the softest keyboard to the hottest broadcast levels.

- **Battery compartment**

The revolutionary simple 'clamshell' action of the DI-PLUS battery compartment makes battery changing ext-

remely easy, even on the darkest stages. A 9v alkaline battery snaps into a PCB mounted battery holder for fast, secure location. No fragile battery clip leads to break, no tools required, no screws to lose. Production crew heaven!

- **Automatic Phantom switching**

The DI-PLUS will automatically switch itself to the console's own Phantom Power, if available, and an LED will indicate this mode. Turn the Phantom Power off and it will instantly revert back to battery mode.

- **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-PLUS provides a rugged, no-compromise solution to all direct injection and signal balancing requirements.

ARX also manufacture the indispensable DI-6s: 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 changes it from a 6 into 1 mixer to a 1 into 6 line distribution splitter, each split's level controlled by the six individual channel controls.

A true Pro Audio toolbox!

Specifications

Max Input Level

- +13 dB Phantom powered
- +6 dB Battery powered

Input Impedance

1 Meg Ohm

Max Output Level

- +17 dB 10K Ohm load Phantom powered
- +12 dB 10K Ohm load Battery powered
- +11 dB 600 Ohm load Phantom powered
- +12 dB 600 Ohm load Battery powered

Output Impedance

680 Ohms Balanced

Output Signal to Noise

- 100 dB unweighted
- 104 dB A weighted

Dynamic Range

- 117 dB 10K Ohm load Phantom powered
- 112 dB 10K Ohm load Battery powered
- 111 dB 600 Ohm load Phantom powered
- 107.5 dB 600 Ohm load Battery powered

Distortion

- 100 Hz .0027%
- 1KHz .0028%
- 10KHz .0037%

Frequency Response

20Hz to 20KHz, \pm 0.2 dB

Gain through Unit

6dB (Normal input, Pad switch out)

Pad Switch

-20 dB attenuation

Speaker Input

- 40 dB attenuation, equivalent to 100:1 decrease in input level
- 60 dB atten. available with Pad switch

Input Connectors

Insulated jack

Output Connector

3 pin XLR. Wired Pin 1 Ground, Pin 2 + Hot, Pin 3 - Cold. With Audio Ground (Pin 1) lift switch

Construction

All-steel chassis, fibreglass PCB

Battery Access

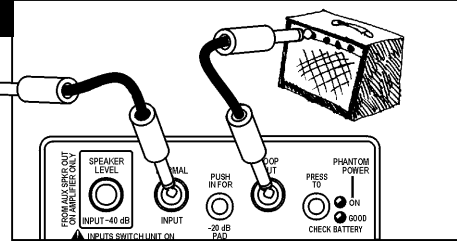
Twist connector opens chassis, snap-in battery holder inside. No tools required



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.

Normal Connections

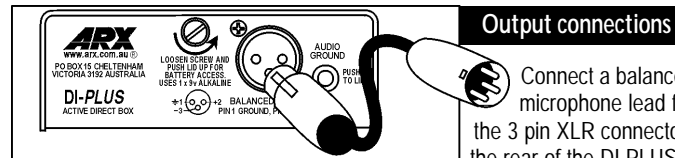
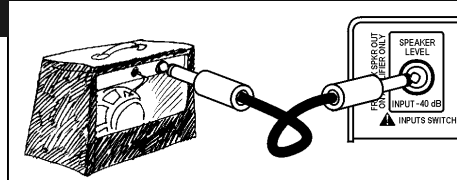
A high impedance source (instrument, unbalanced line or similar) plugs into the Normal Input. If the signal needs monitoring, eg. an onstage amplifier, then connect a lead from the Loop Out to the amplifier. Pushing the Pad switch IN will reduce the input level by -20dB if required.



Connection from amplifier

For applications where the sound of the instrument/ amplifier combination is required, connect a lead from the Aux (or External) speaker output on the rear of the amplifier to the Speaker Level Input (-40dB) on the DI-PLUS. If the signal is still too hot, then switch the Pad switch IN as well to reduce the input by a further -20dB.

Note: Be sure to always use the Aux or External speaker output on the amplifier. **Never** disconnect the speakers on a valve/tube amplifier.



an input channel of the mixing console. Pushing the Audio Ground Lift switch IN will isolate Pin 1 to stop Ground Loops if required.

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

It shall have both a Normal High Impedance input and a -40dB High Impedance input jack, plus an output loop jack. There shall also be a corresponding electronically balanced XLR output connector on the rear panel, with an audio ground lift switch.

A switch on the front panel shall provide an additional -20 dB pad 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.

The input connectors shall have an Input impedance of 1 Meg Ohms, and the input headroom shall be +13dB when Phantom powered, and +6dB when battery powered.

The frequency response shall be 20 Hz to 20 KHz, \pm 0.2dB 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 .0028%.

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.

Specifications available on CD ROM

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