#### **Specifications**

**Max Input Level** +13 dB Phantom powered +6 dB Battery powered

Input Impedance I Meg Ohm

Max Output Level

+ 12 dB 600 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 .0027% 1KHz .0028% 10KHz .0037%

**Pad Switch** –20 dB attenuation

Speaker Input

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

## Input and Loop Out Connectors Insulated jack Output Connector

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

**Construction** All-steel chassis, fibreglass PCB **Battery** Rechargeable 9V DC NiMH

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## **Power Requirements**

The DI-PLUS-RC is an active device, ie. it needs power to run. This power can be supplied 2 ways:

## Battery power

In a world first for this type of device, the DI-PLUS-RC is fitted internally with a State-of-the-Art Nickel Metal Hydride (NiMH) rechargeable battery. NiMH batteries do not suffer from the memory-effect that plagued earlier Nickel Cadmium (NiCad) batteries, and gradually reduced the amount of power available after each recharge. If you ever owned an earlier analog mobile/cell phone you'd be aware of this unfortunate phenomenon.

These new NiMH batteries also feature extended battery life, to last through the longest show.

## • Phantom power

The DI-PLUS-RC will also run on Phantom power if available on the mixing console. Switch the Phantom power ON on the channel the DI-PLUS-RC is plugged into, and the Red Phantom power LED will light up on the DI-PLUS-RC. This means the DI-PLUS-RC is now running on the Phantom power and the batteries are recharging. If you switch the Phantom power off the DI-PLUS-RC will revert to battery operation.

### PLEASE NOTE:

To charge from Phantom Power the DI-PLUS-RC needs to be switched on, i.e. a jack must be inserted into one of the INPUTS.

This is not required if the unit is being charged from an external power supply via the DC jack input.

#### Did you know...

As well as the DI-PLUS-RC and the DI DI-PLUS2-RC, ARX manufacture a six channel rack mount AC powered Direct box:

The **DI-6sm** is a 19" I RU AC powered unit that has 6 independent Direct boxes, each with high impedance Input and Loop out jack connectors, a oo to +15dB level control, clip LED, balanced XLR output and individual audio ground lift switches. It can also function as a 6 into I mic or line mixer at the same time.

Switches on the rear change it from a 6 into 1 mixer to a 1 into 6 mic or line distribution splitter, each split's level controlled by the six individual channel controls.

A true Pro Audio toolbox!

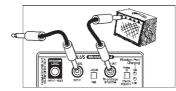
#### Using the DI-PLUS-RC

The DI-PLUS-RC is a Direct Injection, or Direct, box. It is a self contained, stand alone stereo unit designed to interface unbalanced high impedance lines with professional balanced low impedance inputs. In other words, it will convert an ordinary signal into one that is happy to travel down a long line and meet a mixing console at the other end. It has many applications for Live Sound, Studio or Broadcast use.

#### Typical uses are:

- Musical instruments Bass guitar, normal guitar, synthesizers, electronic drums, drum machines
- Consumer audio products CD players, cassette decks, tape decks, video cassette audio, computers.

#### Operating instructions Normal Connection



Plug a jack lead with a high impedance source (instrument, unbalanced lines or similar) into the Normal Input. This will turn the unit on and a balanced signal will appear at the XLR Balanced Output on the rear of the unit. This connects to the Input of the mixing console. 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.

**Special Note.** The DI-PLUS-RC is a Line level device, so it is not designed to accept Microphone level signals.

#### **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-RC 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. Output Connections



Connect a balanced microphone lead from the 3 pin XLR connector on the rear of the DI-PLUS-RC to an input channels on the mixing console. Pushing the Audio Ground Lift switch IN will isolate the Pin I output of the DI-PLUS-RC to stop Ground Loops if required.

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## INTERNATIONAL LIFETIME WARRANTY

ARX Systems (ARX) warrants to the first purchaser of this DI-PLUS-RC that it is free from defects in materials and workmanship under normal use and service. ARX's sole obligation under this warranty shall be to provide, without charge, parts and labour necessary to remedy defects, if any, which appear within twelve (12) months from date of purchase; and to supply parts only for the life of the product to the original purchaser.

This is our sole warranty. It does not cover finish or appearance items, nor does it apply if the DI-PLUS-RC has been, in ARX's sole judgement:

- Subjected to misuse, abuse, negligence or accident;
- Repaired, worked on, or altered by persons not authorized by ARX,
- Connected, installed, adjusted or used otherwise than in accordance with the instructions supplied by ARX.

This warranty gives you and us specific legal rights, and you may also have other rights which can vary from state to state.

To obtain warranty service for your DI-PLUS-RC, call or write to ARX or the dealer you purchased it from. They will give you the correct address to send your unit to. Have your sales receipt showing date of purchase handy, and include a copy with your DI-PLUS-RC. Pack the unit well - we are not responsible for damage caused by unsuitable packing during shipment. Send the unit to us pre-paid, by a delivery service like FedEx, UPS, or any other service that can track the shipment. We will return it to you freight paid.

If you have any questions, or any part of this is unclear, please write to ARX Systems in the country of purchase, or to the address below.

PO Box 15, Moorabbin, Victoria 3189, Australia. Phone: +61 (0)3 9555 7859 Fax: +61 (0)3 9555 6747 You can also Email the factory at: info@arx.com.au

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MI bahatiwa

Balanced Output

charging battery.

To onstage amplifier

detects Phantom power and is

Will illuminate if DI-PLUS-RC

is pressed if battery is good

LED will light up when switch

Battery Check

**@** 

No No

Phantom Pwr/

Red Phantom power LED.

Will isolate Pin I when

Audio Ground lift switch.

# www.arx.com.au 🔞

ARX Systems Pty Ltd, PO Box 15, Moorabbin, Victoria 3189, Australia

International Fax: +61-3 -9555 6747 On the Web: www.arx.com.au Email: info@arx.com.au

Phone: (03) 9555 7859 Fax: (03) 9555 6747

Audio Ground.

Pin 3 - Cold, Pin 2 + Hot, Pin I Balanced XLR output connectors.

DI-PLUS (RECHARGEABLE) NIMH Powered Hand made in Australia!  $(\circ)$ **ACTIVE DIRECT BOX** 

ммм.агх.сот.ац +⊕-15A DC IP

Kear Panel Connections

green battery status LED.

Battery check switch and

• Speaker Level Input Jack

Front Panel Connections

MO TINU HOTTIS STUTINI AN

TUANI

DI-PLUS (RECHARGEABLE)

Loop out Jack

Normal Input Jack

Pad switch





unit that is hard to dislodge, and hard

while making it a sturdy, heavy duty vide excellent RF/EMF shielding outer chassis of the DI-PLUS-RC prothis one! The tough all-steel inner and brittle cast alloyor plastic cases. Not A lot of direct boxes are fitted into

stantly revert back to battery mode.

tion crew heaven!

chargeable battery, which recharges

(MiM) memory-effect-free re-

of-the-art Mickel Metal Hydride

new DI-PLUS-RC is fitted with a state-

In a first for this type of product, the

Rechargeable MiMH Battery

switch itself to the console's own The DI-PLUS-RC will automatically Rutomatic Phantom switching DC external power supply. Produc-Can be recharged via a standard 12V tected. If no Phantom is present, it whenever Phantom Power is de-

Phantom Power off and it will in-LED will indicate this mode. Turn the Phantom Power, if available, and an

• Rugged all-steel case

to leave behind.

original sound source transferred to all the dynamics and clarity of the tor, or broadcast engineer, you want Sound engineer, installation contrac-Whether you're a Studio or Live

all direct injection and signal balancrugged, no-compromise solution to The ARX DI-PLUS-RC provides a rne mixing console.

ing requirements.

cast levels. est keyboard to the hottest broadable for all applications, from the softput by a further 20dB, making it suitmal input and the Speaker Level inbal Pad switch drops both the Norspeaker output of an amplifier. A gloing from the External (auxiliary) Speaker Level input for signal com-There is also a separate -40dB balanced XLR output on the rear. put on the front panel, running to a gain high impedance unbalanced in-

The DI-PLUS-RC features a Normal

Level control

tions and superb audio quality in a

excellent hum and noise specifica-

nents, plus an all-steel chassis gives

the signal. Premium grade compo-

livers maximum headroom whatever

Ultra quiet, ultra clean circuitry de-

sents a fresh look at active D.I. re-

alone format, the DI-PLUS-RC repre-

Packaged in a single channel stand-

yourself with the contents of this

trouble free use, please familiarise

before shipping. To ensure continued

tensive factory testing and 'burn in'

ARX equipment, it has undergone ex-

we enjoyed creating it. As with all ing this unique product as much as

direct boxes. We hope you enjoy us-

PLUS, a major step forward in active

Thank you for choosing this ARX DI-

DI-PLUS-RC

Single Channel

RECHARGEABLE

**Active Direct Box** 

Owner's Manual

• Precision engineered

manual before using.

# tough, roadworthy package.