

## DI-1 Specifications

Maximum Input	+15 dB
Maximum Output	+16 dB into 1 K ohm +21 dB into 10 K ohm
Output Signal/Noise	-98 dB Unweighted -103 dB 'A' weighted
Dynamic Range	119 dB
Distortion	100 Hz .0038% 1 KHz .0032% 10 KHz .0037%
Frequency Response	25 Hz to 20 KHz, - .5 dB into 1 K ohm load
Gain Control	0 dB to +20 dB
Gain through unit	Minimum 6 dB
Size	2"H x 4"W x 5"D 50mm x 100mm x 125mm
Construction	Steel inner chassis; Aluminium extrusion outer chassis
Power	2 x 9 v batteries Phantom power External DC supply (foot pedal pack)

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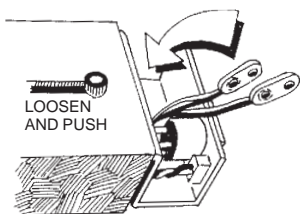
### Power Requirements

The DI-1 is an active device, ie. it needs power to run. This power can be supplied 3 ways:

#### • Battery power.

The DI-1 has provision for 2 x 9 volt batteries internally. To get to the battery compartment, simply turn the DI-1 upside down, LOOSEN the knurled bolt on the underside, and push it towards the rear of the DI-1. The battery compartment will slide into view as you do so. You'll see two sets of battery terminals on flying leads. Click two batteries into them and slide the bolt back. Tighten the bolt finger tight only.

That's all there is to it. No tools, no screwdrivers required!

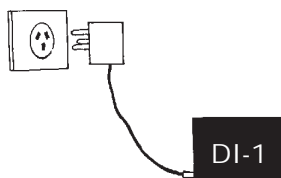


#### • Phantom power.

The DI-1 will also run on Phantom power if available on the mixing console. Switch the Phantom power ON on the channel the DI-1 is plugged into, and the Red Phantom power

LED will light up on the DI-1. This means the DI-1 is now running on the Phantom power and the batteries are disengaged. Switch the Phantom power off and the DI-1 will revert to battery operation. This is a useful battery saving feature, handy when doing long sessions, shows, or week-end festivals.

• **External DC power.** If you have no Phantom power, and no batteries, don't worry - all is not lost. The DI-1 has a unique facility - a DC input connector, enabling it to be run off a battery saver power pack ('wall wart').



Simply plug the power pack into the wall, the connector into the DI-1, and away you go. Virtually any battery saver powerpack will do, even the one on the guitarist's foot pedals.

Note: Headroom will be slightly reduced with this type of power supply, so we suggest keeping the gain in the region of 0dB to +4 dB.

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## Using the DI-1

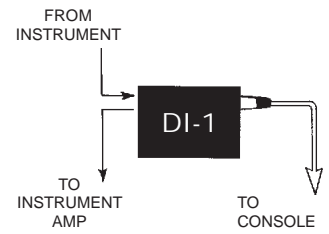
The DI-1 is a Direct Injection, or Direct, box. It is a self contained, stand alone unit designed to interface unbalanced high impedance lines with professional balanced low impedance inputs. In other words, it will convert an ordinary signal into one that is happy to travel down a long line and meet a mixing console at the other end. It has many applications for Live Sound, Studio or Broadcast use.

### Typical uses are:

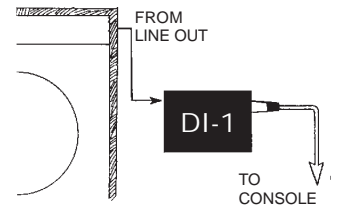
- Musical instruments - Bass guitar, synthesizers, electronic drums, drum machines
- Consumer audio products - cassette decks, tape decks, video cassette audio, computers, telephones.

### Operating instructions

Plug the signal from the source (instrument, tape deck etc) into the jack socket marked Hi Z Input on the front panel of the DI-1. This will turn the unit on and a balanced signal will appear at the XLR type Balanced Output on the rear of the unit. This is the send to the Input of the mixing console. If the original input signal needs to continue on to an instrument amplifier, then plug a lead into the Hi Z Output on the front panel and run this to the amplifier.



If you are using the Line Out on the amplifier to feed the DI-1 then this will not be necessary.



Adjust the Gain control on the front panel until you have a signal that is enough to give a good signal to noise ratio at the mixing console, but not so much that the console input overloads and distorts. If an Earth/Ground loop hum appears, switch in the Audio Ground Lift switch on the front panel to give the best results. Special Note. The DI-1 is a Line level device, so it is not designed to accept Microphone level signals, so don't plug the output of an amplifier into it.

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## INTERNATIONAL LIFETIME WARRANTY

ARX Systems (ARX) warrants to the first purchaser of this DI-1 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-1 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.

Some states do not allow the exclusion or limitation of incidental or consequential damages so some of the above exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.



To obtain warranty service for your DI-1, 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-1. Please write to ARX Systems in the country of purchase, or to the address below.

PO Box 15, Cheltenham, Victoria 3192, Australia.  
Phone: [61] (03) 9555 7859 Fax: [61] (03) 9555 6747

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# DI-1

## Single Channel Active Direct Box

### Owner's Manual



ARX Systems Pty Ltd, PO Box 15,  
Cheltenham, Victoria 3192, Australia  
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International Fax: +61-3 -9555 6747  
On the Web: <http://www.arx.com.au>  
Email: [info@arx.com.au](mailto:info@arx.com.au)

Thank you for choosing this ARX

DI-1, a major step forward in ac-

tion changing a breeze, even on

the darkest stages. No tools re-

quired, no screws to lose. Produc-

tion crew heaven!

As with all ARX equipment, it

has undergone extensive factory

testing and 'burn in' before ship-

ping. To ensure continued trouble

free use, please familiarise your-

self with the contents of this

manual before using.

The DI-1 has been developed

from a single channel of the suc-

cessful ARX DI-6, configured es-

pecially for stand-alone use on

stage. Its ultra quiet, ultra clean

it also has a DC input connector,

2 x 9 volt batteries, but if they die,

power pack like a guitar pedal,

ARX control circuitry in the DI-1

optimizes itself for whatever volt-

age the power pack delivers. Now

the show can go on, whatever

happens.

**Not too compact.** A lot of direct

boxes are fitted into small cast al-

loy cases. Sure, they're compact,

but is that what you need? We all

know rack space is valuable, but

there's usually quite a bit of avail-

able space on top of a bass amp,

for example. The custom alu-

minium extrusion surrounding

the DI-1, plus its steel inner chas-

sis with 2 batteries make a solid

unit that is hard to dislodge, hard

to leave behind, and also hard for

screwdriver handy? The simple

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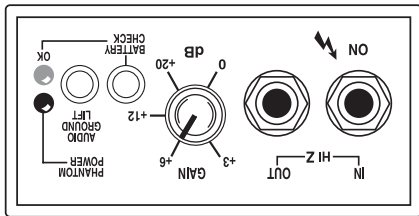
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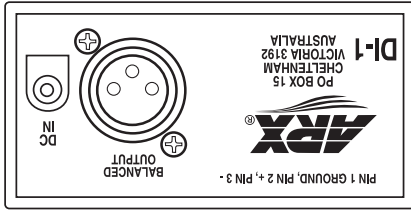
twist-and-slide action of the DI-

### Front Panel Controls



- High impedance Input jack. Switches unit on when plug is inserted.
- High impedance Output jack. Illuminates if DI-1 detects Phantom power.
- Red Phantom power LED. Will illuminate when switch is pressed through to +20 dB.
- Rotary Gain control; from 0 dB on stage amps.
- Green Battery check LED. Will illuminate when switch is pressed through to +20 dB.

### Rear Panel Controls



- Balanced XLR output connector. Pin 2 + Hot, Pin 3 - Cold, Pin 1 Earth/Ground.
- DC in connector. Allows the DI-1 to be run from a DC pedal pack if batteries are flat and you have no phantom power.