

DI-2 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 or -20 dB Pad switch 0 dB or +10 dB Gain switch
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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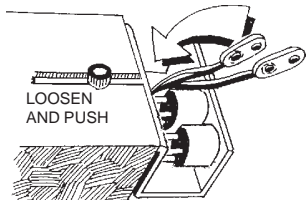
Power Requirements

The DI-2 is an active device, ie. it needs power to run. This power can be supplied 3 ways:

• Battery power.

The DI-2 has provision for 2 x 9 volt batteries internally. To get to the battery compartment, simply turn the DI-2 upside down, LOOSEN the knurled bolt on the underside, and push it towards the rear of the DI-2. 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!



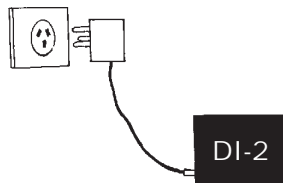
• Phantom power.

The DI-2 will also run on Phantom power if available on the mixing console. Switch the Phantom power ON on the channels the DI-2 is plugged into, and the Red Phantom power LED will light up on the

DI-2. This means the DI-2 is now running on the Phantom power and the batteries are disengaged. Switch the Phantom power off and the DI-2 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-2 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-2, 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.

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Using the DI-2

The DI-2 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 two ordinary signals into ones that are 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.

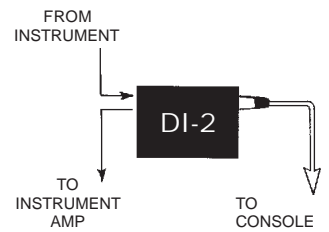
Typical uses are:

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

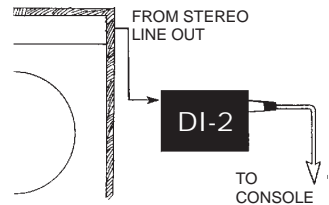
Operating instructions

Plug the signal from the source (instrument, tape deck etc) into the jack sockets marked Hi Z Input on the front panel of the DI-2. This will turn the unit on and balanced signals will appear at the XLR Balanced Outputs on the rear of the unit. These are the sends to the Inputs 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 Outs on the amplifier to feed the DI-2 then this will not be necessary.



Switch the Pad switch IN on the front panel if the signal level is so high that the console input is overloading or distorting. Switch the Gain switch in if the signal level at the console input is not high enough. 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-2 is a Line level device, so it is not designed to accept Microphone level signals. It is also not designed to accept speaker 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-2 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-2 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-2, 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-2.

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) 555 7859 Fax: [61] (03) 555 6747

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Thank you for choosing this ARX DI-2, a major step forward in active direct boxes. We hope you enjoy using this unique product as much as we enjoyed creating it. As with all ARX equipment, it has undergone extensive factory testing and burn in before shipping. To ensure continued trouble free use, please familiarise yourself with the contents of this manual before using.

About the DI-2

The DI-2 is another major step forward in active direct boxes from ARX. A dual channel active DI for stand-alone use on stage. Its ultra quiet, ultra clean circuitry delivers maximum headroom whatever the signal. The use of premium grade components, plus optimizes itself for whatever voltage the power pack delivers. Now and noise specifications in a tough, roadworthy package. Innovative features include:

Gain control. Dual switches provide input attenuation and output gain control. A 20 dB Pad switch and a +10 dB Gain switch, making it suitable for all applications, from the softest keyboard to the hottest broadcast levels. No more balancing acts between DI's to get the same level.

Battery compartment. How often have you had to change batteries in an active DI and had no screwdriver handy? The simple twist-and-slide action of the DI-2 battery compartment makes battery changing a breeze, even on DI-2, a major step forward in active direct boxes. No tools required, no screws to lose. Production crew heaven!

Automatic switching to Phantom Power. Save the life of your batteries by running the DI-2 from the console's own Phantom Power, if available. The DI-2 will switch itself to Phantom and an LED will indicate this mode. Turn the Phantom Power off and it will revert back to battery mode.

Battery life. Batteries will go flat when you least expect them to - it's a fact of life. The DI-2 runs on 2 x 9 volt batteries, but if they die, it also has a DC input connector, so you can run it on a 'wall wart' power pack like a guitar pedal. ARX control circuitry in the DI-2 optimizes itself for whatever voltage the power pack delivers. Now and noise specifications in a tough, roadworthy package. Innovative features include:

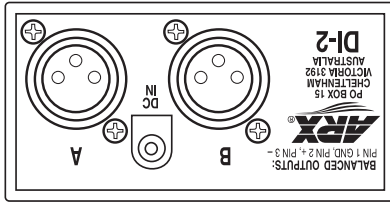
Not too compact. A lot of direct boxes are fitted into small cast aluminium cases. Sure, they're compact, but is that what you need? We all know rack space is valuable, but there's usually quite a bit of available space on top of a bass amp, for example. The custom aluminium extrusion surrounding the DI-2, plus its steel inner chassis with 2 batteries make a solid unit that is hard to dislodge, hard to leave behind, and also hard for people to put in their pocket!

DI-2

Dual Channel Active Direct Box

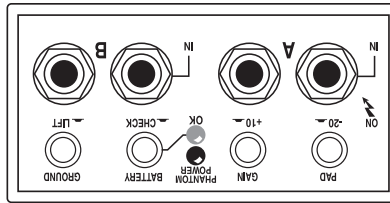
Owner's Manual

- Channel A Balanced XLR output connector. Pin 2 + Hot, Pin 3 - Cold, Pin 1 Earth/Ground. If batteries are flat and you have no phantom power.
- Channel B Balanced XLR output connector. Pin 2 + Hot, Pin 3 - Cold, Pin 1 Earth/Ground. If batteries are flat and you have no phantom power.



Rear Panel Controls

- Channel A High impedance Input jack. Switches unit on when plug is inserted.
- Channel A High impedance Output jack. Loops input signal through to onstage amps.
- -20 dB Pad switch. Illuminates when switch is pressed.
- Green Battery check LED. Will illuminate if DI-2 detects Phantom power.
- Red Phantom power LED. Will illuminate when switch is pressed.
- Battery check switch.
- Audio Ground lift switch.
- Phantom power LED. Will illuminate when switch is pressed.
- +10 Output Gain switch.



Front Panel Controls



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