

Pro DI Specifications

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|-----------------------------------|--|
| Max Input Level | + 12 dB Phantom powered, + 8 dB using 12 VDC Power Supply. |
| Input Impedance | 1 Meg Ohm |
| Max Output Level (nominal) | + 12 dB 10K Ohm load using Phantom power + 11 dB 600 Ohm load using 12 VDC Power Supply |
| Output Impedance | 680 Ohms Balanced |
| Output Signal to Noise | -100 dB unweighted, -104 dB A weighted |
| Dynamic Range | 112 dB 10K Ohm load using 12 VDC Power Supply |
| Distortion | 100 Hz 0.0025%, 1KHz 0.0026%, 10KHz 0.0033% |
| 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 attenuation available with Pad switch |
| Input Connectors | Insulated jacks |
| Output Connector | 3 pin male XLR. Wired Pin 1 Ground, Pin 2 + Hot, Pin 3 - Cold. Audio Ground (Pin 1) lift switch fitted |
| Construction | All-steel powdercoated chassis, fibreglass PCB |

The Pro DI Duo Dual channel model has identical specifications for each channel

Using your Audibox

The Pro-DI is a Direct Injection, or Direct, box. It is a self contained, stand alone single or dual channel unit designed to interface unbalanced high impedance lines with

professional balanced low impedance inputs. In other words, it will convert audio signals from instruments and consumer electronics into ones that are happy to travel down a long line and meet a mixing console at the

nal 12 - 15 V DC power supply. Any 12V DC wall connector capable of supplying 200 mAmps will work, although for greatest headroom we recommend the Audibox PSU which can supply 15 V DC to multiple Audibox devices.

Note the wiring of the connector: the outer sleeve is -, the inner is +.

Did you know...

As well as the Pro-DI, ARX manufacture other products in the unique Audibox range:

The **ISO-Balancer** for balancing unbalanced signals, and also the **ISO De-Balancer**, which will de-balance a signal when required to connect to an unbalanced input.

The **ISO-Later** is a Dual channel Unbalanced to Balanced Low Impedance transformer isolated converter, and the **ISO Splitter** is a transformer isolated 1 input to 2 outputs splitter for splitting 1 input 2 ways in applications where complete Galvanic isolation is required.

Both available in Single Channel or Double Header format.

The **Ear Driver** is a Headphone Amplifier with 2 pairs of Stereo in-

puts each feeding two channels of headphone level outputs. It has individual Level controls plus a 12 - 15VDC power connector. A compact, flexible unit

The **AV-DI** is a Stereo AudioVisual Active Direct box, with dual RCA or stereo mini jack input and dual XLR outputs. Ideal for interfacing consumer audio (especially computer sound cards) with professional systems.

Other **AV-DI** features include full-time soft audio ground, -20dB Pad, plus Phantom or DC power options.

Available in Dual Channel format only

The **DI-Pre** is an Ultra compact Microphone Pre amp with XLR input, balanced jack output and 10 to 60dB Gain control.

Other features include -20dB Pad switch, Clip LED and Phantom Power switch, plus DC power connector.

Available in Single Channel or Double Header format

For the latest information on the complete Audibox range, visit our website:

www.arx.com.au/audibox.htm

other end. It has many applications for Live Sound, Studio or Broadcast use.

Typical input types are:

- Musical instruments - Bass guitar, electric guitar, synthesizers, electronic drums, drum machines
- Consumer audio products - MP3 players, laptop computer sound cards, CD players, audio from DVD players, cassette decks, tape decks, VCR audio and more

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 Pro-DI is a Line level device, so it is not designed to accept Microphone level signals.

Connection from an 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 Pro-DI. 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 Pro-DI to an input channel on the mixing console. Pushing the Audio Ground Lift switch IN will isolate the Pin 1 output of the Pro-DI to stop Ground Loops if required.

The full-time Soft Ground connection Grounds both Pin 1 outputs of the Pro-DI through a resistive network to prevent Ground Loops.

Power Requirements

The Pro-DI is an active device, *i.e.* it needs power to run. This power can be supplied 2 ways:

- **Phantom power:** The Pro-DI will also run on Phantom power if available on the console. Switch the Phantom power ON on the channel(s) the Pro-DI is plugged into, and the Phantom power LED will light up on the Pro-DI to show that it is running on Phantom power.

- **External 12 - 15 V DC power:** The Pro-DI has a DC input connector for running the unit on an exter-

INTERNATIONAL LIFETIME WARRANTY

ARX Systems (ARX) warrants to the first purchaser of this Audibox product 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 Audibox 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 Audibox, call, write, or Email 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 of it with your Audibox. Please pack the unit well - we are not responsible for any 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.

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You can Email the factory at: info@arx.com.au

Owner's Manual



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Thank you for choosing this Audibox product from ARX. 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.

All models in the Audibox range feature the same heavy duty all-steel chassis finished in attractive matt blue textured powdercoat, with hardwearing epoxy screen printing and large slip resistant rubber foot pads.

By their very nature these units are compact and portable; to protect your investment we've added numerous security features including a slot for computer lock, and the option of a permanent table mounting kit.

A rack mount kit is also available to rack up to 3 units plus power supply in 1 RU



The Pro-DI

Ultra compact Active Direct box, with normal High Impedance input as well as a separate speaker level input for connection to instrument amplifiers.

Other features include -20dB Pad and Audio Ground Lift switches, plus Phantom or DC power options.

Available either in Single Channel or 'Double Header' Dual Channel format

Connections and Controls:

Normal and Speaker Level jack inputs and jack Loop Out; Balanced XLR Output. -20 dB Pad switch, Audio Ground Lift switch, Phantom Power LED illuminates when the unit is running from Phantom Power. 12 - 15 V DC power connector for running from external power supply

