

## Specifications

### ISO De-Balancer

<b>Input Impedance</b>	10K Ohms Balanced
<b>Output Impedance</b>	10K Ohms Unbalanced
<b>Input Level (max)</b>	+12dB
<b>Frequency Response</b>	20Hz - 20 KHz $\pm$ 0.5dB
<b>THD at Max Output</b>	0.2% 30 Hz - 20KHz
<b>Insertion Loss</b>	0.75dB @ 1 KHz (600 Ohm source)
<b>Input Connector</b>	3 pin female XLR, wired Pin 1 Ground, Pin 2 + Hot, Pin 3 - Cold. Chassis Ground is connected to the RCA Output connector shield/ground
<b>Output Connectors</b>	Dual stereo RCA connectors
<b>Construction</b>	All-steel chassis, fibreglass PCB, ultra low noise audio transformer

### ISO Balancer

<b>Input Impedance</b>	10K Ohms Balanced
<b>Output Impedance</b>	10K Ohms Unbalanced
<b>Input Level (max)</b>	+12dB
<b>Frequency Response</b>	20Hz - 20 KHz $\pm$ 0.5dB
<b>THD at Max Output</b>	0.2% 0dB 1 KHz, 30 Hz - 20KHz
<b>Insertion Loss</b>	0.75dB @ 1 KHz (600 Ohm source)
<b>Output Connectors</b>	3 pin male XLR, wired Pin 1 Ground, Pin 2 + Hot, Pin 3 - Cold. Chassis Ground is connected to the RCA Input connector shield/ground
<b>Input Connectors</b>	Stereo RCA connectors
<b>Construction</b>	All-steel chassis, fibreglass PCB, ultra low noise audio transformer

**Please Note.** The ISO Balancer is normally supplied with the Left and Right Output Pin 1 floating to ensure full transformer isolation, with the two internal Pin 1 jumpers (designated G1 and G2) set in the 'Lift' position. When it is being used in conjunction with the ISO De-Balancer we suggest that these two internal jumpers be moved to the 'In' position. This ensures that the interconnecting cables' shield drains back through the ISO Balancer Ground circuit. Full transformer isolation is still supplied by the ISO De-Balancer's Input Transformers

### Did you know...

As well as the **ISO-Balancer** and the **ISO De-Balancer**, ARX manufacture other products in the unique Audibox range:

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

The **Ear Driver** is a Headphone Amplifier with 2 pairs of Stereo inputs each feeding two channels of headphone level outputs. It has individual Level controls plus a 12 - 15VDC power connector. A compact, flexible unit

The **Pro-DI** is an ultra compact Active Direct box, with normal High Impedance input as well as a separate speaker level input for connec-

tion to instrument amplifiers.

Other features include  $-20$ dB Pad and Audio Ground Lift switches, plus Phantom or DC power options. Available in Single Channel or Double Header format

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  $-20$ dB 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](http://www.arx.com.au/audibox.htm)

## Using your Audibox

The ISO Balancer is designed to convert an Unbalanced signal to a Balanced signal suitable for connection to professional audio systems. It is a self contained, stand alone dual channel unit with an ultra low noise audio transformer inside. It will have applications in Live Sound, Studio or Broadcast use.

The ISO De-Balancer does the opposite, and converts a Balanced signal to an Unbalanced signal suitable for connecting to consumer products. It is a self contained, stand alone dual channel unit with an ultra low noise audio transformer inside. It will primarily have applications for Installation Sound, although Studio or Broadcast engineers will find it a useful tool as well.

## Power Requirements

None. The ISO Balancer and ISO De-Balancer are passive iso-transformer coupled devices, *ie.* they don't need power to run.

Please note that it is advisable to power down the system before connecting these units, to avoid the risk of sending large electrical and signal noises through the system when disconnecting and connecting.

## 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 prepaid, 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 Email the factory at: [info@arx.com.au](mailto:info@arx.com.au)

Owner's Manual



ARX Systems Pty Ltd, PO Box 15,  
Moorabbin, Victoria 3189, Australia  
Phone: (03) 9555 7859 Fax: (03) 9555 6747  
International Fax: +61-3-9555 6747  
On the Net: www.arx.com.au  
Email: info@arx.com.au



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.

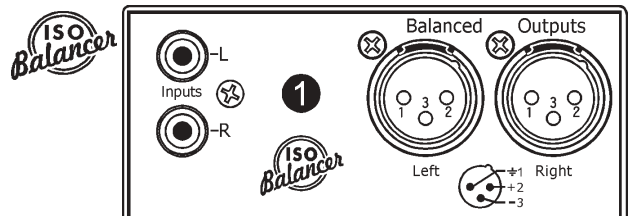
By their very nature these units are compact and portable; to protect your investment we've added numerous security features including a slot for computer lock, and the option of a permanent table mounting kit. A rack mount kit is also available to rack up to 3 units plus power supply in 1 RU

**The ISO-Balancer**

Dual channel Unbalanced to Balanced Low Impedance transformer isolated converter  
Dual Unbalanced RCA inputs; Balanced XLR Outputs  
Available in Dual Channel format only.

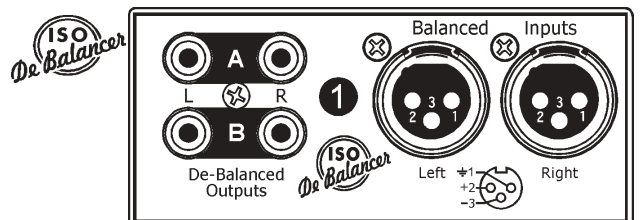
**The ISO-De-Balancer**

Dual channel Unbalanced to Balanced Low Impedance transformer isolated converter.  
Dual Balanced XLR Inputs and 2 pairs of De-Balanced RCA Outputs.  
Available in Dual Channel format only.



**The ISO-Balancer**

Connections:  
Dual Unbalanced RCA inputs; Balanced XLR Outputs  
Available in Dual Channel format only.



**The ISO-De-Balancer**

Connections:  
Dual Balanced XLR Inputs and 2 pairs of De-Balanced RCA Outputs.  
Available in Dual Channel format only.