

## Specifications

### ISO Optimizer

Input Impedance	10K Ohms Balanced jack; Unbalanced RCA
Output Impedance	10K Ohms Balanced (user variable) jack; Unbalanced RCA
Input Level (max)	+12dB variable to off
Frequency Response	20Hz - 20 KHz $\pm$ 0.5dB
THD at Max Output	0.2% 30 Hz - 20KHz
Insertion Loss	0.75dB @ 1 KHz (600 Ohm source)
Input Connectors	Balanced jack, wired Pin Sleeve Ground, Tip + Hot, Ring - Cold. Unbalanced RCA wired Tip: Hot, Sleeve: Cold
Output Connectors	Balanced jack, wired Pin Sleeve Ground, Tip + Hot, Ring - Cold. Unbalanced RCA wired Tip: Hot, Sleeve: Cold
Construction	All-steel powdercoated chassis, fibreglass PCB, ultra low noise audio transformer

#### Did you know...

As well as the **ISO-Optimizer**, 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 connection to instrument amplifiers.

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

## Using your Audibox

The simplest ideas are usually the best!

The Optimizer is a unique transformer isolated Level optimizer.

An accurately calibrated Level control sits between the Jack and RCA Inputs and Outputs, enabling precise level attenuation and matching.

It allows you to attenuate the level from one piece of equipment to the next in order to provide the exact level required and reduce the risk of overloading sensitive inputs, especially ones on the front of digital converters.

The internal Iso Transformer provides hum prevention and complete Galvanic isolation for this essential piece of equipment for anyone needing accurate level matching, eg. Live audio feeds, digitising audio and more. It will have applications in Live Sound, Studio or Broadcast use.

## Power Requirements

None. The ISO Optimizer is a passive iso-transformer coupled device, *i.e.* it doesn't need power to run, making it a truly universal problem solver.

The heavy duty all-steel chassis is finished in attractive matt textured powdercoat, with hardwearing epoxy screen printing and slip resistant rubber pads.

Security features include Kensington®-type computer lock slot and optional bracket kit for under-table mounting.

Please note that it is advisable to power down the system before connecting it, 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.

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You can Email the factory at: [info@arx.com.au](mailto:info@arx.com.au)

## Owner's Manual



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.

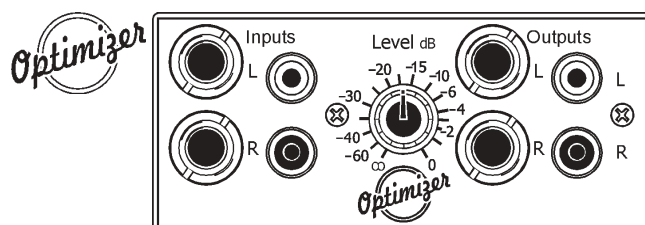
**All models in the Audibox range** feature the same heavy duty all-steel chassis finished in attractive matt blue textured powdercoat, with hardwearing epoxy screen printing and large slip resistant rubber foot pads.

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-Optimizer

Dual channel transformer isolated Level attenuator  
Left and Right Jack and RCA inputs;  
Level attenuation control; Left and Right Jack and RCA Outputs  
Available in Dual Channel format only.



#### Connections:

Left and Right Jack and RCA inputs; Level attenuation control; Left and Right Jack and RCA Outputs

Available in Dual Channel format only.

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