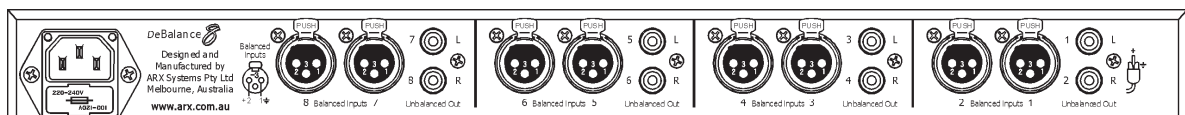


# DeBalance 8



## 8 CHANNEL AUDIO DEBALANCER AND LEVEL OPTIMIZER



Hand made in Australia

### Innovation

Sooner or later there comes a time when Pro Audio Balanced outputs need to be converted to Unbalanced, to silently interface with -10dB unbalanced inputs of consumer electronics. Distortion and noise from a mismatch at this point will be amplified throughout the system.

Now there's a simple and straightforward solution to this problem – the all-new **ARX DeBalance 8**, an 8 channel audio debalancer and level optimizer specifically designed to handle this critical task.

ARX's proprietary debalancing circuits take the Balanced +4dB levels from professional audio systems and effortlessly convert them into the unbalanced signals that all units with unbalanced inputs need, such as LCD, LED and plasma screens and other consumer-type products

Inputs are industry standard balanced 3 pin XLR type, and outputs are unbalanced RCA connectors.

Pairs of Gain Mode switches on the front panel let you select unity gain through the DeBalance 8, using it as a debalancer only, or as a level optimizer as well, bringing the +4 dB levels down to -10 dB (-14dB overall loss). Status LEDs on the front panel indicate which mode has been selected.

Housed in a rugged all steel chassis with extruded aluminium front panel, the ARX DeBalance 8 is the ideal professional engineer's tool for the critical task of impedance and level converting.

### Applications

- Studio, Live Sound and Broadcast
- AV Sound with Video installations
- Patch bays
- Anywhere balanced signals need converting to unbalanced signals

### Specifications

**Input Impedance** 44K Balanced

**Input Headroom** +24dB

**Input Connector**

Female XLR, wired Pin 1 Gnd, Pin 2 + Hot, Pin 3 – Cold

**Output Connector** RCA (Phono)

**Output Impedance**

150 Ohms Unbalanced

**Output Level (max)** +24dB

**Frequency Response**

10Hz- 30KHz  $\pm 0.25$ dB

**Signal to Noise Ratio**

-96dB unweighted

-102dB A weighted

**Distortion**

.003% THD, 100Hz

.0025% THD, 1KHz

.00325% THD, 10KHz

**Dynamic Range** 120dB

**Gain Loss**

- 0dB Unity, mode switch out,
- -14dB, mode switch in (+4dB to -10dB level matching)

**Power**

100-120/220-240 VAC 50/60Hz  
5VA (5 watts) on 3 pin IEC connector with removable cable

### Architectural Specifications

The unit shall be an 8 channel device that electronically converts balanced audio signals to unbalanced signals. 4 switches on the front panel (1 per pair of channels) shall offer the option of unity gain or +4 dB to -10 dB level matching.

It shall be mounted into a standard 1 RU all steel chassis with extruded aluminium front panel.

All Inputs shall be Balanced 3 pin XLR type, wired Pin 2 + (Hot), Pin 3 – (Cold), and Pin 1 Ground.

All Outputs shall be unbalanced RCA (phono) connectors, wired Tip + (Hot), Sleeve Ground.

The Signal to Noise ratio shall be -96dB unweighted, and -102 dB A weighted.

The Input impedance shall be 44K Ohms Balanced, and the Output impedance shall be 150 ohms Unbalanced. Dynamic Range shall be 120dB.

Maximum Input headroom shall be +24 dB, and maximum Output Level shall be +24 dB. THD shall be 0.003% @ 100Hz, 0.025% @ 1KHz, and 0.0032% @ 10KHz.

AC power range shall be switchable 100 to 120V or 220 to 240V AC, using a standard three pin IEC connector, with built-in fuse and voltage change switch.

The unit shall be the ARX DeBalance 8

Latest information updates always available on the comprehensive ARX website:

[www.arx.com.au](http://www.arx.com.au)