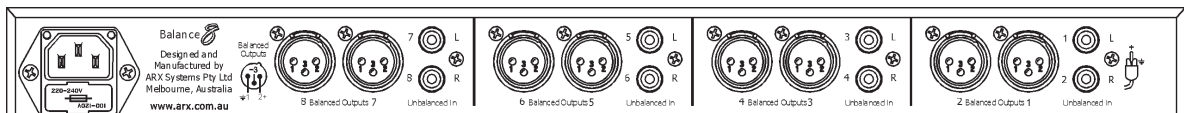


Balance 8



8 CHANNEL AUDIO BALANCER AND LEVEL OPTIMIZER



Hand made in Australia

Innovation

Silently interfacing -10dB unbalanced consumer electronics with +4 dB Balanced professional equipment has always been a problem. Hum and noise generated by a mismatch at this point will be amplified throughout the studio, broadcast or live sound system.

But luckily it's a problem of the past, now that ARX introduces the Balance 8, an 8 channel audio balancer and level optimizer specifically designed to handle this critical task.

ARX's proprietary balancing circuits take the -10dB levels from CD players, cassette and tape players, DAT recorders, digital 8 track recorders, and effortlessly transform them into the balanced signals that all professional audio systems expect.

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

Pairs of Gain Mode switches on the front panel let you select unity gain through the Balance 8, using it as a balancer only, or as a level optimizer as well, bringing the -10 dB levels up to +4 dB (14dB overall gain). 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 Balance 8 is the ideal professional engineer's tool for the critical task of impedance and level converting.

Applications

- Studio, Live Sound and Broadcast
- Patch Bays
- AV Systems/CD/VIDEO
- Anywhere unbalanced signals need converting to professional balanced signals

Specifications

Input Impedance 22K Unbalanced

Input Headroom +24dB

Input Connector RCA (Phono)

Output Impedance
300 Ohms Balanced

Output Level (max) +24dB

Output Connector
Male XLR, wired Pin 1 Gnd,
Pin 2 + Hot, Pin 3 – Cold

Frequency Response
10Hz- 30KHz ± 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
• 0dB Unity, mode switch out,
• 14dB, mode switch in (-10dB
to +4dB 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 unbalanced audio signals to balanced signals. 4 switches on the front panel (1 per pair of channels) shall offer the option of unity gain or -10 dB to +4 dB level matching.

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

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

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

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

The Input impedance shall be 22K Ohms Unbalanced, and the Output impedance shall be 300 ohms Balanced. 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 Balance 8

Latest information updates always available on the comprehensive ARX website:

www.arx.com.au