



Australian Monitor

XO-2

2/3 WAY 24DB ELECTRONIC CROSSOVER

The Australian Monitor XO-2 is a flexible yet affordable 24 dB per octave Phase Correct electronic crossover.

It has 2 modes of operation; as either a Stereo 2 way or a Mono 3 way unit, with a switch on the back panel selecting either mode.

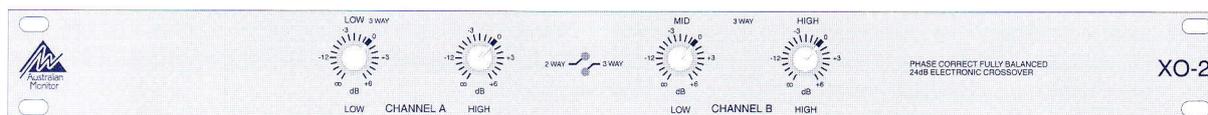
• Tamper-Proof Crossover Points

The crossover points are determined internally by the value of 4 resistors per channel. This 'semi fixed' method avoids the pitfalls of exter-

damage speakers and waste amplifier power. In addition, each output has up to +6 dB of gain available, to compensate for amplifiers and speakers of differing sensitivities.

• Universal AC Power

AC power range is a universal 100 to 120V or 220 to 240VAC, 50 - 60 Hz, and is connected to the unit via a standard three pin IEC connector and lead, with built-in fuse and voltage change switch.



nally adjusted crossover points, making the crossover points tamper-proof once they are set. As a handy guide, a list of common crossover points and their corresponding resistor values are printed inside the unit's lid, and also set out in the Owner's Manual

On the front panel are controls for Low and High in dual channel 2 way mode, and Low, Mid and High in single channel 3 way mode, with corresponding Outputs on the rear panel.

• Balanced Inputs and Outputs

The XO-2 has Balanced Inputs *and* Outputs, on XLR connectors, plus an additional summed Mono Low output, for applications needing a Mono Low feed (e.g. Satellite/Sub Bass speakers)

• High Pass Filter

The XO-2 features a preset 30 Hz HighPass filter to remove unwanted subsonics which can

• Uncompromising Audio Quality

Innovative circuit design is pointless unless it delivers stunning sound quality, and here the XO-2 excels.

It has been designed to provide uncompromising audio quality, and to achieve this, Linkwitz Riley 24dB (Fourth Order) state variable filters are used throughout their circuitry. This ensures a smooth Phase Correct transition through the crossover region.

From Stage Monitors to Studio Monitors, from Front of House to the Front room of your House, the Australian Monitor XO-2 is a crossover that is suited to any application that requires flawless, transparent sound.

Technical Specifications

XO-2

Input Impedance

Balanced 20 Kohms
Unbalanced 10 Kohms

Input Headroom

+ 21 dB

CMRR

>45 dB, 20 Hz—20 KHz

Output Impedance

Balanced 300 ohms
Unbalanced 150 ohms

Output Level (Max)

+ 21dB

Frequency Response

30Hz—20KHz \pm 0.5dB
Note: 30 Hz is a function of the
High Pass filter

Signal to Noise ratio (Controls at Unity)

-90 dB Unweighted
-93 dB 'A' weighted

Distortion

.004% THD, 0dB, 1KHz

Dynamic Range

111 dB

Power Requirements

100/120 V AC, 220/240 V AC
50 - 60 Hz

Weight

5 lbs/2.2 Kg

Dimensions

19"W x 1 $\frac{3}{4}$ "H x 6"D
482 x 44 x 155mm

Input Connector type

XLR, Balanced Jack

Output Connector type

XLR

Crossover point frequencies are changed internally by varying the value of 4 resistors per channel. Full details are in the Service Notes section of the Owner's Manual, and are also printed inside the lid.

Architect's Specifications

The crossover shall be a dual channel 2 way or single channel 3 way unit in a steel chassis six inches deep and one rack unit high. There shall be a rear panel switch to put the unit into either mode. The crossover shall have true Linkwitz Riley 24 dB per octave, phase corrected state variable filters.

The front panel shall feature controls for Low and High frequencies in dual channel mode, and Low, Mid and High frequencies in single channel mode.

There shall be corresponding outputs on the rear panel, plus a separate mono low frequency summed output. Each output shall have up to +6dB of gain available, to compensate for amplifiers and speakers of differing sensitivities. There shall also be a preset 30 Hz High Pass filter to remove unwanted subsonics.

The unit shall have electronically Balanced Inputs, on TipRingSleeve (TRS) jack connectors (Tip +, Ring -, Sleeve Ground), and XLR connectors, with passive RFI filters and an

Input impedance of 20 Kohms (10 Kohms unbalanced). The Outputs shall also be Balanced, on XLR connectors, with an output impedance of 300 ohms balanced (150 ohms unbalanced),

The Input headroom shall be +21dB, with a CMRR of better than 50dB, and the frequency response shall be 30 Hz, -0.5dB (as a function of the High Pass filter) to 20 KHz, +0.16dB, and the maximum Output level shall be +21dB, with a Signal to Noise ratio of -93dB 'A' weighted (-90dB unweighted).

Total Harmonic Distortion shall be .004% @ 0dB, 1 KHz, and the unit shall have a dynamic range of 111dB.

AC Power shall be supplied via a removable mains cable, connecting to an IEC connector with an integral fuse and voltage change switch on the unit's rear panel.

The crossover shall be the Australian Monitor XO-2.



Australian Monitor

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In keeping with our policy of continually improving the technical quality of our products, we reserve the right to change component types, manufacturers, sources of supply or technical specifications at any time

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