Ashly Audio, Inc. | 847 Holt Road | Webster, NY 14580-9103 USA | US toll free: +1-800-828-6308 | tel: +1-585-872-0010 | fax: +1-585-872-0739 | sales@ashly.com | www.ashly.com | Ashly is a division of Jam Industries, Ltd.

5-Year Warranty

XR-1001

Stereo 2-Way, Mono 3-Way Crossover

The ***XR-1001*** Crossover is based upon a powerful state-variable filter circuit guaranteeing that two adjacent frequency band outputs always remain in phase. Conservative design and an unusually thorough procedure for quality control have earned Ashly has reputation for dependability in the recording, sound reinforcement and = broadcast fields.

The XR-1001 offers a number of useful features, including continuous tuning, a response control, and a unique output stage that maintains low noise at any level setting. The XR-1001 also include a 200:1 tuning range, individual output mute switches, and both TRS and XLR connectors. This control adjusts the damping of the filter affecting the response shape of the filters at the crossover point. This helps offset the inaccuracies inherent in typical loudspeakers, thereby helping you to achieve a flat system response.

Dial calibrations refer to the amount of attenuation effected by the filter at the crossover frequency, i.e., a setting of 3dB means that the filter's hi-pass and low-pass outputs are each "rolled off 3dB at the crossover point". This describes Butterworth filter response, or a gentle 3dB peak at the crossover point when the two filter output signals overlap.

To obtain a flat signal, or "Linkwitz-Riley" response through the crossover region, set the Response control to "6". This attenuates each output of the filter by 6dB at the crossover point (two identical signals added together yield a +6dB increase). To obtain a notch at the crossover point, turn down the response control past "6" to best suit your needs.

Like other Ashly products, the XR-1001 features low noise and distortion, active balanced inputs, a peak level indicator, a precision regulated power supply, protection against abnormal input or output conditions, and rugged mechanical construction.

XR-1001 Features:

- Variable Filter Response Control
- 24dB/octave slope
- Mode switch for stereo 2-way or mono 3-way operation
- Low frequency summed mono output
- +/-10 range switch on both channels
- XLR and 1/4" inputs and outputs
- 20Hz third-order hi-pass filter
- Peak overload warning lights
- Individual level control and mute switch on all outputs
- Active-balanced inputs
- Servo-balanced outputs
- XLR and TRS 1/4" connectors
- Universal 100–240VAC internal power supply
- Safety/Compliance: cTUVus, CE, FCC, RoHS

Specifications	*Note: 0dBu = 0.775 VRMS*
Input	20k Ohms, Active-Balanced
Max Input Level	+23dBu
Input Level Control	-∞ to +8.5 dB
Damping/Response	2dB – 12dB
Output	100 Ohms, Servo-Balanced
Max Output Level	+23dBu
Output Level Control	-∞ to +15dB
Frequency Response	± 0.2dB, 20Hz–20kHz
THD	<0.05% THD (+10dBu, 20Hz–20kHz)
Slew Rate	6V/µS
Output Hum/Noise	<-95dBu, Unweighted (20Hz–20kHz)
Connectors	XLR, 1/4" TRS
Weights, Dimensions & Power	
Dimensions	19"W x 1.75"H x 8"D (483mm x 44mm x 216mm)
Unit Weight	8.1lbs (3.68kg)
Shipping Weight	11lbs (5kg)
Power Requirements	100–240VAC (50–60Hz), 24W

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XR-1001

Architect & Engineering Specs

The unit shall be a stereo two-way, switchable to mono 3-way, 24dB per octave electronic crossover in a one rack space metal chassis. The unit shall have separate front panel input level controls on both channels for interfacing with broad range of nominal system levels. Unity gain operation must be achievable by setting these controls at the "U" position. Each of the unit's two channels shall have independent, infinitely variable adjustment of crossover frequency with controls located on the front panel. This control shall provide a total range of 200:1 when used in conjunction with the unit's adjacent recessed Range switch. There shall be a Response control calibrated in decibels on each channel to adjust the damping of that filter at the crossover point, thus allowing variable system response adjustment to specific site requirements. The unit shall have separate clip indicators to monitor all internal amplifiers for any possible overload conditions. Each channel of the crossover unit shall have a separate output level control and mute switch located on the front panel. There shall be separate inputs and outputs for each channel on 1/4" TRS phone jacks and XLR connectors, any of which may be used balanced or unbalanced. There shall be a 1/4" TRS connector providing for a summed mono low output which can be used balanced or unbalanced. The shipping weight shall be eleven pounds, with an overall depth of eight inches. No other unit shall be acceptable unless data submitted from an independent test laboratory verifies that the above specifications are fully met or exceeded.

The crossover shall be the **XR-1001** manufactured by Ashly Audio Inc.