

# ASHLY

## 12dB Per Octave Electronic Crossovers

models XR-22E, XR-70E, XR-77E, XR-80E, XR-88E



XR-22E Stereo 2-Way



XR-70E 3-Way



XR-77E Stereo 3-Way



XR-80E 4-Way



XR-88 Stereo 4-Way

The Ashly Audio series of 12dB Electronic Crossovers is designed to fill the needs of modern high-power sound systems. Crossover points and response are continuously adjustable and individual output stages with wide range gain controls will drive long cable runs and accurately match any power amplifiers.

All of our 12dB Electronic Crossovers use state-variable filter circuits to perform the frequency divisions. These filters provide simultaneous low-pass and high-pass outputs. All models include inverters on alternate outputs to keep everything in phase.

A Variable Filter Response control is included for adjustment of frequency response in the crossover region,

allowing flat summing. The output stages have a wide range feedback level control circuit to maintain an optimum signal-to-noise ratio at any setting. A special electronic power monitor for the output stages prevents turn-on transients without the use of relays.

Both inputs and outputs can be used as balanced or unbalanced and a peak overload circuit monitors all critical points in the circuit to insure low-distortion operation.

The logical layout of the control panels provides an intuitive, "easy-operation" feel, and LED's display peak information. Our entire line of electronic crossovers, like all Ashly products, now features our exclusive five-year worry-free warranty.

Five-Year Worry-Free Warranty

12dB Per Octave Slopes

Inputs and Outputs Can Be Used Balanced or Unbalanced

Variable Filter Response Allows Tuning-In Butterworth, Elliptical or Other Filter Performances

Flat Summing

Peak Overload Warning Lights

Tamper-Proof Security Covers Optionally Available

# Specifications

## CONTROLS

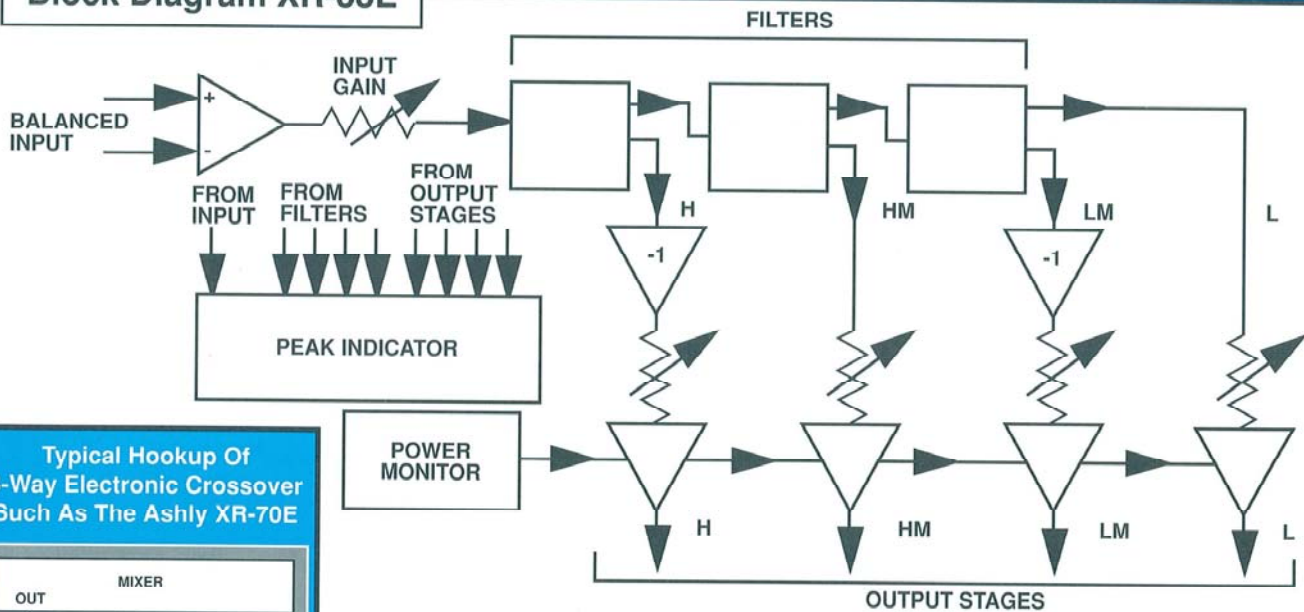
Input Level:  $\infty$  - +10dB  
 Damping (crossover point depth): 1.5dB - 12dB  
 Output Level:  $\infty$  - +20dB

Input Impedance: 10k $\Omega$  balanced bridging  
 Output Impedance: 50 $\Omega$  unbalanced - terminated w/ 600 $\Omega$  or more.  
 Turn on transient protected.

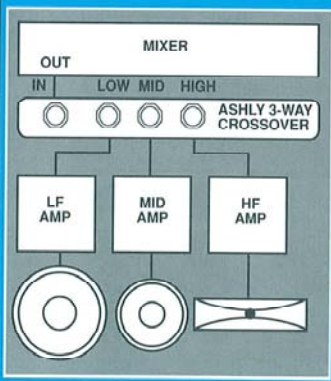
Maximum Input Level: +26dBm  
 Maximum Output Level: +20dBm  
 Frequency Response:  $\pm$ .5dB 20Hz - 20kHz (within passband)  
 Distortion: < .05% THD, +10dBV 20Hz - 20kHz  
 Hum and Noise: -90dBV - Inputs and all outputs unity gain, frequency and rolloff at center rotation. (all outputs)

Power Requirements: 120 VAC 50-60Hz, 5W  
 Size: XR-22E, XR-70E, XR-80E: 19"L x 1.75"H x 6"D  
 XR-77E, XR-88E: 19"L x 3.5"H x 6"D  
 Shipping Weight: XR-22E, XR-70E, XR-80E: 8 lbs  
 XR-77E, XR-88E: 10 lbs

## Block Diagram XR-88E



### Typical Hookup Of 3-Way Electronic Crossover Such As The Ashly XR-70E



Ashly also manufactures a complete and comprehensive line of 24dB per Octave Electronic Crossovers, as well as Power Amplifiers, Compressor-Limiters, Noise Gates, Graphic and Parametric Equalizers, and Preamps. Please call or write for information on any of these Ashly Products.

Ashly Audio Inc.

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## Since 1972

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