

VX-1

Stereo Program Equalizer



The Meyer Sound VX-1 Stereo Program Equalizer is a two-channel signal processor that is optimized for composite frequency response shaping of stereo program material.

Featuring a unique Virtual Crossover™ implementation, the VX-1 provides five controls for each input channel: two frequency breakpoint settings, and separate gain controls for the Low, Mid, and High frequency bands. The crossover metaphor makes the VX-1 a simple but powerful tool for generating a wide variety of response shapes. Minimum-phase, first-order tracking networks impart an unusually graceful and natural equalization characteristic.

The VX-1 accommodates nominal input signal levels of +4 dBu balanced

(XLR connectors) or -10 dBV unbalanced (gold-plated RCA connectors), selected by a rear-panel recessed switch. The XLR input circuitry incorporates Meyer Sound's patented ISO™ Input, which affords exceptional immunity from ground loops and common-mode noise. A master gain control is provided, and the equalization may be bypassed by a front-panel switch. The outputs may also be switched to mono, if desired.

The VX-1 Stereo Program Equalizer is suitable for a wide variety of equalization tasks in professional recording and reinforcement. Typical applications range from simulation of non-flat playback systems and standardized house curves to Compact Disc™ mastering.

Features

Minimum-phase circuitry

Graceful, natural sonics

Virtual Crossover™ design

Detented controls

Two independent channels

+4 dBu and -10 dBV inputs

Applications

Stereo program equalization

Vocal & instrument EQ

Compact Disc™ mastering

Video & film dubbing

Sound effect enhancement



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STUDIO SERIES

VX-1 Specifications

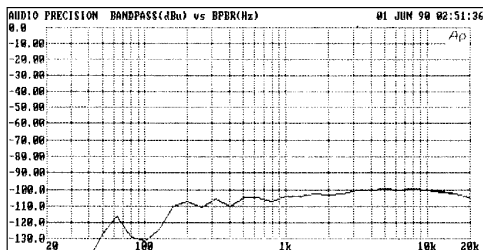
Frequency Response¹	
Equalization In (Controls set flat)	20 – 20,000 Hz +0, -0.5 dB
Equalization Bypassed	20 – 20,000 Hz +0, -0.5 dB
Total Harmonic Distortion ²	< .01%
Hum and Noise ³	< -90 dBV "A" Weighted
Dynamic Range ⁴	> 100 dB
Inputs	
XLR	
Type	Balanced, transformer-isolated ISO™ Input ⁵
Impedance	16k ohms, 8k ohms per branch unbalanced ⁶
Nominal Input Level	+4 dBu, 16 dB headroom
Maximum Input Level ⁷	+20 dBu
RCA	
Type	Unbalanced active
Impedance	8k ohms
Nominal Input Level	-10 dBV
Maximum Input Level	0 dBV
Outputs	
Type	Balanced active push-pull, pin 1 to chassis = 500Ω
Impedance	300 ohms, 150 ohms per branch unbalanced
Nominal Output Level	+4 dBu
Maximum Output Level	+25 dBu
Controls & Indicators	
Front Panel	
Power	Locking pushbutton, red LED
EQ In/Out	Locking pushbutton, green LED
Mono/Stereo	Locking pushbutton, yellow LED
Frequency, Gain	31-position detented rotary controls
Master	Rotary control
Rear Panel	
+4 dBu/-10 dBV select switch	Recessed toggle
Connectors	
Balanced Input, Output	3-pin XLR male, female
Unbalanced Input	Gold-plated RCA female
Power	
	90-125/180-250V AC, 50/60 Hz (switchable), 20W
Physical	
Dimensions	19" W x 1.75" H x 7.5" D standard rack mount
Weight	8 1/4 lbs (3.75 kg)

Meyer Sound Laboratories has devoted itself to designing, manufacturing and refining components that deliver superb sonic reproduction. Every part of every component is designed and built to exacting specifications and undergoes rigorous, comprehensive testing in the laboratories.

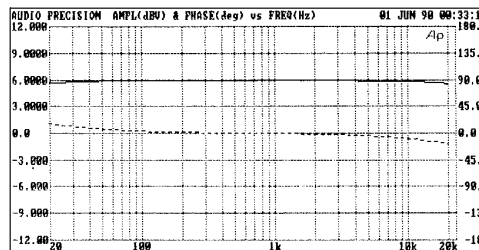
Research remains an integral, driving force behind all production. Meyer strives for sound quality that is predictable and neutral over an extended lifetime and across an extended range.

Notes:

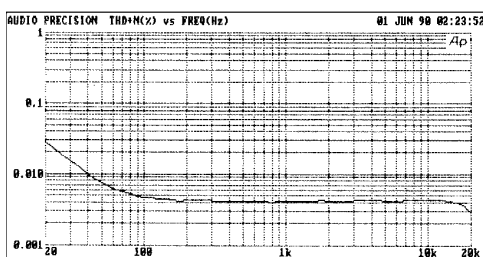
1. Measured at 0 dB gain
2. +12 dBu input, 1 kHz
3. Unbalanced
4. "A" weighted noise floor to maximum RMS output
5. ISO™ Input: Pins 1, 2, and 3 are transformer-isolated. Shell is connected to chassis/AC mains ground. Pin 3 positive for positive-going output at pin 3.
6. Pure resistive throughout audio band
7. Within operating band of each channel, this is the minimum worst-case level achieved before clipping.
8. 0 dBu ≈ 0.775 vrms
0 dBV = 1 vrms



"A" Weighted Noise Spectrum



EQ In, All Bands Maximum Boost Amplitude (Solid) & Phase (Dotted)



THD + N(%), +12 dBu Input, Unity Gain

Sound engineering for the art and science of sound.



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