

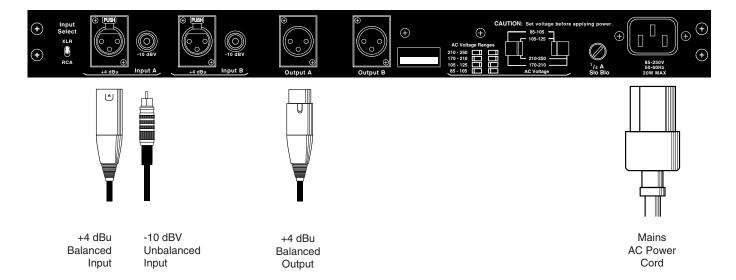
The Meyer Sound VX-1 is a two-channel program equalizer featuring three bands of minimum-phase boost or cut equalization per channel. Optimized for composite response shaping of stereo program material, the VX-1 utilizes a unique Virtual Crossover™ implementation, with two frequency breakpoint controls and separate gain controls for the Low, Mid and High bands. The VX-1 occupies a single 1.75" standard rack space, and the clearly marked controls include a Master gain control, a single EQ In/Out switch and a convenient Mono switch. Single-pole, minimumphase circuitry assures natural, graceful sonic characteristics, even at extreme settings. The dynamic range of the VX-1 exceeds 100 dB.



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Input Connections	The VX-1 accommodates nominal input levels of +4 dBu (XLR connectors) balanced, or -10 dBV (RCA connectors) unbalanced, selected by a rear-panel recessed switch.	Source Output Configuration	Wiring of ISO™ Input Pin 1 Pin 2 Pin 3						
		Balanced	n/c - + n/c + -	GND - + GND + -					
	The +4 dBu XLR input circuitry employs Meyer Sound's exclusive ISO [™] Input, affording exceptional immunity from ground loops and common-mode noise. The circuit makes use of custom transformers employing a high-inductance nickel core and Faraday shield, achieving 500 volts of common-mode isolation. All three input connector pins float from both circuit ground and chassis ground. The ISO [™] input circuit accommodates a wide variety of input wiring configurations with no change in gain. Figure 1 illustrates output polarity for various balanced and unbalanced connections.	Unbalanced	n/c GND + n/c + GND	GND - + GND + -					
		 Figure 1. ISO[™] Input Polarity Table Connect -10 dBV unbalanced signal sources to the rear-panel RCA connectors. These inputs bypass the ISO[™] transformer stage, and the connector shells are tied to circuit ground. Upon making input connections, check to be sure that the input selector switch is set correctly. 							
					Output Connections	Signal outputs from the VX-1 are active balanced, at nominal +4 dBu operating level. The connectors may be wired bal-	anced or unbalanced, with maximum output levels before clipping of +25 dBu or +19 dBu, respectively.		
					AC Power Inlet and Voltage Selector	The VX-1 is equipped with an international standard IEC 320 Mains AC inlet that accepts a variety of power cord types to accommodate mains outlets worldwide.	Meyer Sound, or an equivalent that satisfies the requirements of the local safety testing agency.		
						The VX-1 must have the correct power cord, voltage setting and fuse for the AC power source in your area. To avoid electrical shock and damage, use only the cord specified by	To change the AC voltage setting, first disconnect the AC cord. Using a small flat-blade screwdriver, move the slide switches to the appropriate position as indicated by the adjacent panel legend.		
AC Fuse	Primary protection for the VX-1 is provided by a ¹ / ₄ A SloBlo fuse located in a receptacle adjacent to the AC inlet. Before examining or replacing the fuse, first disconnect the AC cord.	the fuse cap a fuse will spring	e fuse, insert a flat-bl and gently turn count g from its socket. Re be and rating specifie	erclockwise. The place only with a					







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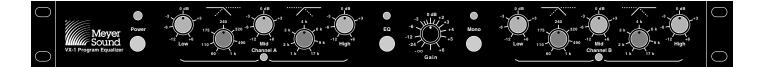


Figure 3. VX-1 Front Panel Controls

EQ In/Out Switch	The EQ In/Out Switch engages (in) or bypasses (out) the VX-1 equalization stages. When the equalization is engaged, the LED lights and the equalization controls are active.	When the equalization is bypassed, only the Master Gain control and Mono switch are active.	
Master Gain Control	The Master Gain Control regulates the gain of the VX-1. Its range is from off to +6 dB, with 0 dB (unity) gain at the center position.		
Mono Switch	When the Mono Switch is engaged (in), the LED lights and the two input channels are summed and routed to both out-	puts with equal amplitude. When the Mono switch is disengaged (out), the VX-1 operates in stereo.	
Signal/Clip Indicators	Centered directly under the equalization controls for each channel, the Signal/Clip indicators will flicker green when	their corresponding channels are passing audio. The indicators flash red to register signal clipping.	
Equalization Controls	The VX-1 features a unique, Virtual Crossover [™] implemen- tation which is well suited for tailoring the broadband re- sponse of program material. Operationally, it may be likened to a conventional active loudspeaker crossover. Each channel of equalization incorporates five controls: two frequency breakpoint controls, and three band gain controls. The left-hand frequency control regulates the frequency	Mid and High bands. The gain controls affect the relative amplitude (boost or cut) within each frequency band, with a range of -12 to +6 dB. The VX-1 equalization sections are first-order (6 dB/ octave) minimum-phase networks that provide gentle, natural sonic characteristics. Figure 4 illustrates typical response curves for various midrange control	

breakpoint between the Low and Mid bands, while the right-

<figure>

settings.



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Figure 4. VX-1 Response at Various Midrange Settings

Specifications

Frequency Response¹ Equalization In (Controls set flat) Equalization Bypassed Total Harmonic Distortion²

Hum and Noise3

Dynamic Range⁴

Inputs

XLR Type Impedance Nominal Input Level Maximum Input Level7

RCA

Type Impedance Nominal Input Level Maximum Input Level

Outputs

Туре Impedance Nominal Output Level Maximum Output Level

Controls & Indicators

1. Measured at 0 dB gain

2. +18 dBV input, 1 kHz 3. Unbalanced

4. "A" weighted noise floor to maximum RMS output

Notes:

- 5. ISO[™] input: Pins 1, 2 and 3 are transformerisolated. Shell is connected to chassis/ AC mains ground. Pin 3 positive for positivegoing output at pin 3.
- 6. Pure resistive throughout audio band
- 7. Within operating band of each channel, this is the minimum worstcase level achieved before clipping.
- 8. 0 dBu ³ 0.775 vrms 0 dBV = 1 vrms

Sound

Front Panel Power EQ In/Out Mono/Stereo Frequency, Gain Master

Rear Panel

+4 dBu/-10 dBV select switch

Connectors

Balanced Input, Output **Unbalanced Input**

Power

Physical

Dimensions

Weight

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20 - 20,000 Hz +0, -0.5 dB 20 - 20,000 Hz +0, -0.5 dB < .005% <-90 dBV "A" Weighted

> 100 dB

Balanced, transformer-isolated ISO[™] Input⁵ 16k ohms, 8k ohms per branch unbalanced⁶ +4 dBu, 16 dB headroom +20 dBu

Unbalanced active 8k ohms -10 dBV 0 dBV

Balanced active push-pull, pin 1 to chassis = 500ý 300 ohms, 150 ohms per branch unbalanced +4 dBu +25 dBu

Locking pushbutton, red LED Locking pushbutton, green LED Locking pushbutton, yellow LED 31-position detented rotary controls Rotary control

Recessed toggle

3-pin XLR male, female Gold-plated RCA female

100/120/220/240 VAC, 50/60 Hz (switchable), 20W

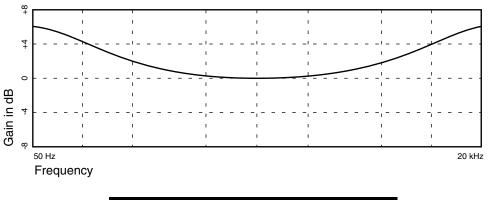
19" W x 1.75" H x 7.5" D standard rack mount

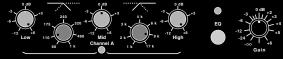
8 1/4 lbs (3.75 kg)

Examples of Program Equalization

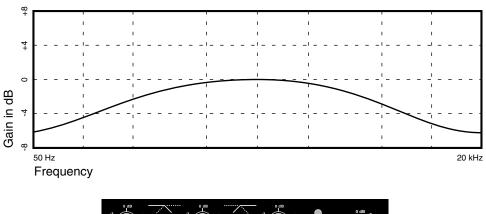
The examples on this page illustrate typical response characteristics obtained with various settings of the VX-1 band gain and frequency controls.

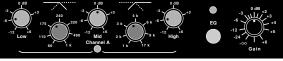
The control settings (Channel A only) used to obtain a specific response are shown in the detail below the curve plot.





Symmetrical High- and Low-Frequency Boost

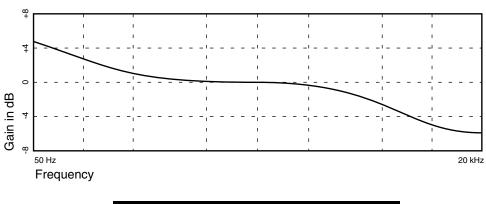




Symmetrical High- and Low-Frequency Cut

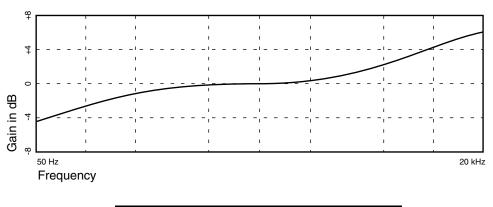


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Gradual Downward Tilt





Gradual Upward Tilt



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