

Opto-isolators/Hum Eliminators

VL-2 (# 121-0-001): The VL-2 reduces or eliminates hum and herringbone interference resulting from a ground loop. The video signal is optically coupled to eliminate any significant electrical connection between input and output, thus breaking the ground loop yet providing frequency response characteristics that allow it to be used where high video quality is required. The input and output grounds are isolated from the power supply ground. The 1500 volts peak isolation provided by the VL-2 makes it ideal for situations such as long cable runs where ground loop voltage levels of more than a few volts are possible. An amber Shock Hazard indicator lights to warn of a shock potential when the difference between any two of three grounds is 24 volts or more. To be effective, the VL-2 must be installed within the video system ground loop typically at the receiving end of a cable.

VL-2A (# 121-0-002): The VL-2A operation is identical to that of the VL-2 except that the VL-2A incorporates additional circuitry to provide isolation for balanced monaural audio to reduce or eliminate hum and herringbone interference resulting from a ground loop in the audio as well as the video. The audio signal is optically coupled to eliminate any significant electrical connection between input and output, thus breaking the ground loop.

Audio input common is internally connected to video input ground.

Audio output common is internally connected to video output ground.

VL-2 (#121-0-001)		VL-2A (#121-0-002)	
Frequency Response	2 Hz - 15 MHz @ -3 dB (1Vpp input)	<u>Video:</u> Frequency Response	2 Hz - 15 MHz @ -3 dB(1Vpp input)
Input Signal	0.5 - 2.0Vpp video	Input Signal	0.5 - 2.0Vpp video
Input Impedance	75 Ohms	Input Impedance	75 Ohms
Gain	0.5X - 2.0X Adjustable (1Vpp input)	Gain	0.5X - 2.0X Adjustable (1Vpp input)
Output Signal	0.5 to over 2.0Vpp video within -1V to +1V range	Output Signal	0.5 to over 2.0Vpp video within -1V to +1V range
Output Impedance	75 Ohms	Output Impedance	75 Ohms
Connectors	BNC	Connectors	BNC
Power Requirements	120V AC, < 250mA	<u>Audio:</u> Frequency Response	4 Hz - 50 KHz
Dimensions	4.25" W x 1.75" H x 12" L	Input Signal Level	25 dBm maximum
Shipping Weight	4 lbs	Input Impedance	300 Ohms to input ground
		Gain	-6 dB - +6 dB
		Output Signal Level	15 dBm max into 600 Ohms load
		Output Impedance Series	300 Ohms
		Connectors	Terminal Block screw type
		Power Requirements	120V AC, < 250 mA
		Dimensions	4.25" W x 1.75" H x 12" L
		Shipping Weight	4 lbs
VL-2 Euro (# 121-0-003) - 220V European		VL-2A Euro (# 121-0-004) - 220V European	

