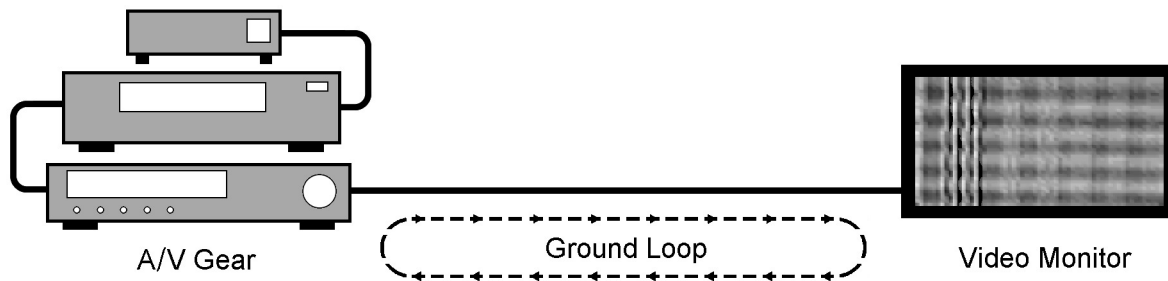


# EMPIRE STATE FILTER COMPANY, INC.




## S-VIDEO HUM ELIMINATORS

Empire State Filter Co.'s line of hum eliminators is designed to remove interference created by long cable runs, 60 cycle power demands, grounding noise, and magnetic coupling. Normal voltage differences between system grounding points cause small AC power currents to flow through video cables. At power frequencies, a voltage drop of only 7mV peak can cause a visible hum bar. Ground loop current flows through the shield of s-video cables which produces a magnetic field in the twin cores of the hum eliminator to create an inductor, or choke. The high impedance of this choke in the ground path effectively removes the hum from the signal cable at the output port of the unit. The major advantage of a hum eliminator is high bandwidth. Low frequency response extends to DC avoiding an effect called field-rate tilt, and a high frequency response of 200 MHz or more make these units suitable for high-definition and projection TV systems.



Our use of quality materials in the manufacture of these products will assure you that you are getting the highest quality hum eliminator possible. Don't hesitate to call or fax us if your situation requires a custom solution. For a more detailed look at our products visit us on the web at [www.empirefilter.com](http://www.empirefilter.com).

Parts taken with permission from Sound & Video Contractor Magazine, "Losing the Hum Bar" by Bill Whitlock, July 2002

	Model#	Impedance	Bandwidth	Size	Weight
	S200	75 Ohm	200 MHz	6.3 x 4.1 x 2.1	3.5 lbs
	S225	75 Ohm	200 MHz	6.3 x 4.1 x 2.1	3.5 lbs
	S250	75 Ohm	200 MHz	6.0 x 3.25 x 2	3.5 lbs

### Features:

- isolated dual-channel unit
- stand-alone or with mounting brackets
- S-Video input
- 200 MHz minimum bandwidth
- mini DIN 4 S-VHS connectors
- aluminum housing

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