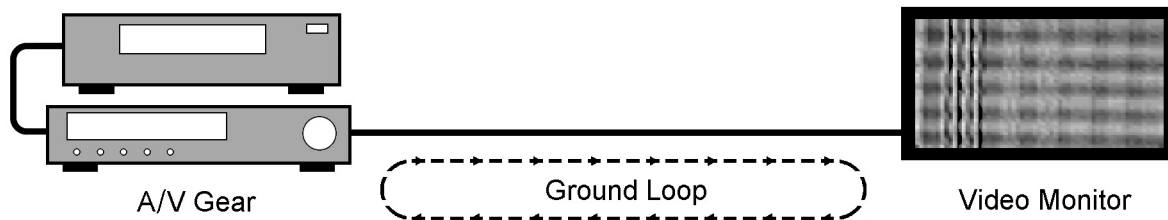


# EMPIRE STATE FILTER COMPANY, INC.




## Video Hum Eliminators for HD-SDI

**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. This ground loop current flows through the shield of the video cables which produces a magnetic field in the core 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. The low frequency response extends to DC, avoiding an effect called field-rate tilt, and the high frequency response of more than 850 MHz make these units suitable for HD-SDI systems. These are passive devices which require no external power. Single channel units are designed for composite signals, multi-channel units can be used for component or RGB & sync signals. All models exceed the specifications for SMPTE 259M , 344M , 292M and will allow data rate of 1.5 Gigabits/sec minimum. These units are compatible also with all analog formats.



Our use of quality materials in the manufacture of these products will assure you that you are getting the best 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 #	Description	Size	Weight
	100SDI 125SDI	single channel hum eliminator & w/protected connectors	4.7 x 3.7 x 2.1	3.0 lbs
	300SDI	3 channel hum eliminator w/protected connectors	4.7 x 4.7 x 3.6	6.0 lbs
	500SDI	5 channel hum eliminator w/protected connectors	7.4 x 4.7 x 3.2	7.5 lbs

### Features:

- single or multi channel units
- passive - no external power required
- stand-alone or with mounting brackets
- supports HD-SDI or analog input
- 1.5 Gigabit/s data rate
- BNC connectors
- cast aluminum housings
- custom units available

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