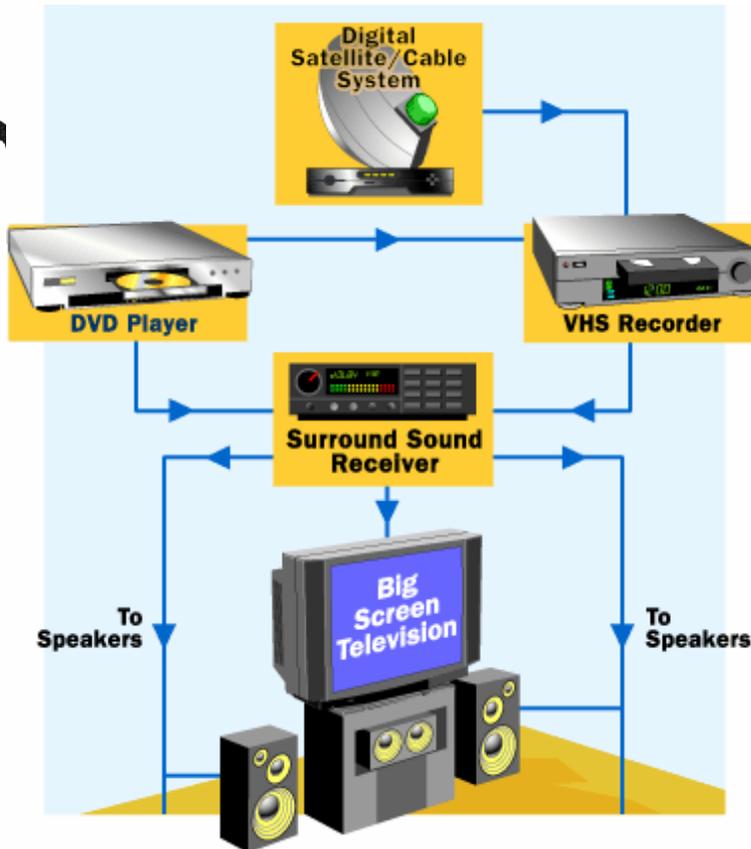


## Stop Video Ground loops

### VIDEO HUM ELIMINATORS & AUDIO ISOLATION TRANSFORMERS FOR HOME THEATRE AND MULTIMEDIA ENTERTAINMENT SYSTEMS WITH RCA CONNECTORS STOP HUM AND NOISE.



Almost all cases of video noise and audio buzz can be traced directly to ground loops or poor grounding. Each component of a video or sound system produces its own ground internally. This ground is usually called the *signal* ground. Connecting devices together with the interconnecting cables can tie the signal grounds of many components together through the conductors in the cable. Ground loops occur when the grounds of the two units are also tied together in another place: via the electrical ground in the line cord or power strips, etc. These situations create a circuit through which current may flow in a closed "loop" from one unit's ground to another units ground. Many times it is impossible to eliminate these currents entirely. When that happens Allen Avionics has the Video Hum Eliminators with RCA connectors to make your home theater experience better.

	MODEL#	DESCRIPTION/APPLICATION	SIZE / PRICE
	RCA1000 With Brackets	The RCA1000 single channel Hum Eliminator can be used to remove Ground current induced video interference such as "hum bars" and eliminate any visible distortion and improve picture quality. 75 Ohms	4.7 x 3.2 x 2.3 \$110.00
	RCA3000 RCA3250 With Brackets	3 channel Hum Eliminators for use with any HDTV Analog (Y,PbPr or RGB) ,Component, Y R-Y B-Y. Enhances video quality and eliminates Hum bars. Helps to reduce RF interference. 75 Ohms	7.4 x 4.3 x 2.4 \$250.00
	AV3000 AV3250 With Brackets	Video Hum Eliminator & two channel audio isolation transformers. Can be used to solve any audio and video hum or buzz problem. Can be used with all VCR stereo audio and composite video outputs.	7.4 x 4.3 x 2.4 \$150.00

224 East Second Street Mineola, NY 11501 Tel: 516-248-8080 Fax: 516-747-6724

Visit us on the web at [www.allenavionics.com](http://www.allenavionics.com)



Poor picture quality



Good picture quality

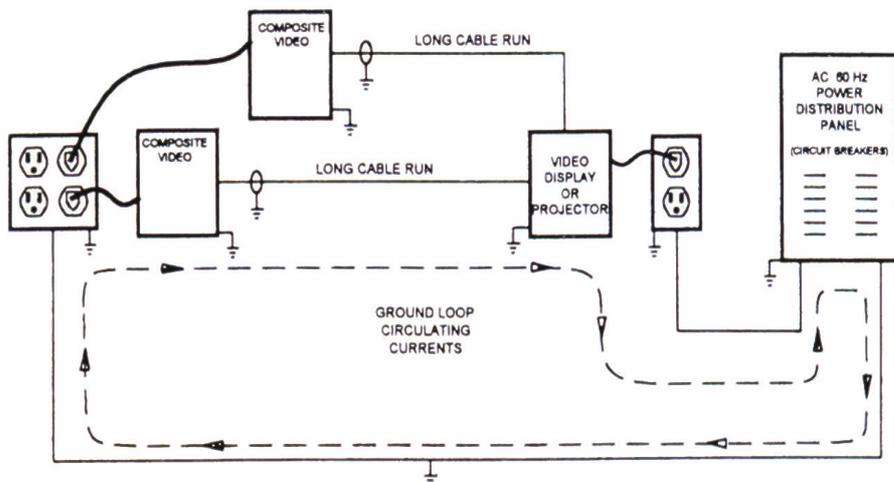


Figure 1

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Is this the kind of picture you get on your new home theatre display? Moving black lines through the picture and generally poor quality images. Do you have Audio buzz coming from your speaker? Some times these problems are caused by the interconnection of system components like Satellite or Cable systems, DVD players, VCR'S, Audio amplifiers and receivers. Internal grounding in one piece of equipment or a power or grounding loop problem can cause this type of distortion. When ground loops cause the problem we have some hints on how to find and fix it.

## How to find and eliminate ground loops and prevent AC Hum.

For complex systems you may need to repeat the following steps starting with a different piece of equipment in various combinations to locate the problem and correct it. See figure 1.

- #1 Strip the system down to the display and one Video or Audio source. Disconnect any Satellite or cable system, DVD player, VCR, Audio Receiver etc.
- #2 Add one piece of equipment back at a time. Reconnect Cables, power and check for Humbars in the Video or Hum in the audio.
- #3 proceed until you find the offending component(s) that is causing the problem.
- #4 Once you know what combination of components is responsible Allen Avionics Will probably have a Audio or Video Hum Eliminator you can insert between the offending equipment and the rest of the system to permanently stop the Hum

Allen Avionics has hum eliminators for S Video, NTSC, Composite, HDTV Analog (Y,PbPr or RGB), Component, Y R-Y B-Y. They can be used with any brand of Audio or Video equipment.

For additional technical information or ordering information call our technical sales department at 516-248-8080.

You can also see us on the Web at

[www.allenavionics.com](http://www.allenavionics.com)

Email any questions you may have to [sales@allenavionics.com](mailto:sales@allenavionics.com)