

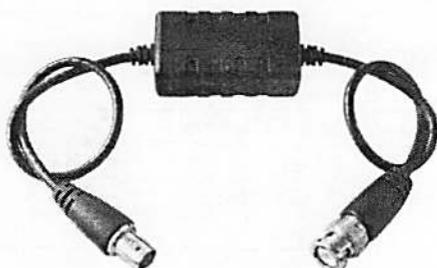
High Performance Video Ground Loop Isolator Filter – BNC

Model: VGIBNC

The video ground loop isolator reduces ground loop interference with CCTV signals. It can be installed easily to a new system or as an additional isolator in an existing system. The isolator is useful where a video signal is transmitted via cable between points with different ground potentials. Differences in ground potentials are typically caused by unbalanced power line loads.

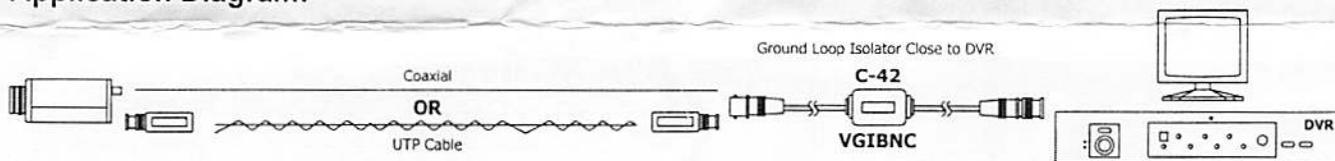
Features:

- BNC male to BNC female with mini cable – 200 mm / 7.87" on both sides.
- Built-in TVS (Transient Voltage Suppressors) for surge protection.
- High Performance to eliminate ground loop problem
- Low video loss, Bandwidth: 0-3dB / 0-10MHz
- Passive; No power required.
- Prevents video-signal distortion caused by video ground loops.
- Eliminates picture tearing, cross talk, and rolling.
- Prevents power cables laid by others interfering with the CCTV system.
- It is useful where a video signal is transmitted via cable between points with different ground potentials.



Since all UTP Balun's Passive and Active Video Baluns have multiple protections, adding a High Performance Ground Loop Isolator will make it immune to interference from sources of noise: data signals, other video signals, nearby power, ringing telephones, fluorescent lights, transformers and more.

Application Diagram:



Troubleshooting: Electromagnetic Interference = EMI

Ground loop interference is caused by EMI. When there is large difference in ground potentials between two points EMI may occur. Differences in ground potentials are typically caused by unbalanced power line loads, and the peak-to-peak magnitude may vary from 0 volts to more than 10 volts.

Using Ground Loop Isolators may help prevent EMI. Ground Loop Isolators reduce the interference between the camera and the DVR by producing equal and opposite magnetic field that cancels one another. It is often recommended to use the Ground Loop Isolator at the DVR end. Also our Ground Loop Isolators has built-in Wave / Interference Rejection and Noise Filter.

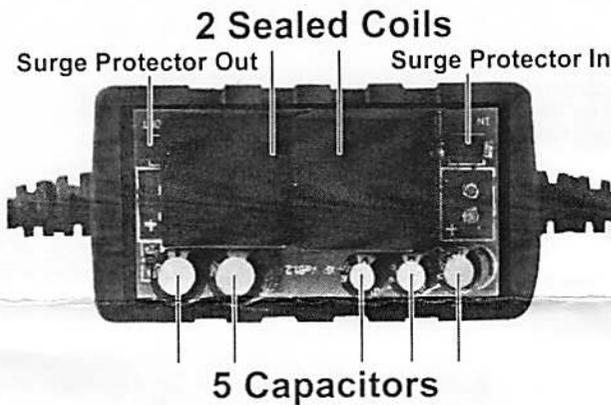
Note: If that does not solve your ground loop interference it is suggested that you change your power supply. Or if the camera is dual power, change to 24V AC.

Before



After





Our High Performance Video Ground Loop Isolator has 5 Capacitors and 2 Sealed Coils to reduce signal interference and thus contribute to a clear quality video picture.

Specification:

Model		VGIBNC
Performance	Isolation Voltage	800V AC/DC
	Cable Connections	BNC Male to BNC Female
	Insertion Loss	0.5 dB
	Frequency Response	0-3dB / 0-10MHz
	Input / Output Resistance	75 Ohms
	Insulation Resistance	100M Ohms
Protections	Electromagnetic Discharge Protection	1a Contact Discharge Level 3 1b Air to Discharge Level 3 Standard: IEC61000-4-2
	Surge Protection	2kV 10/700µs, Standard: IEC61000-4-5
Physical Properties	Dimensions L x W x H	46 x 27 x 18 mm with 2x 200 mm cable 1.81 x 1.06 x 0.71 inches with 2x 7.87" cable
	Material & Color	ABS, Black
	Weight	65 g / 2.3 oz
Environment	Operating Temperature	20°C ~ 55°C / 68°F ~ 131°F
	Humidity	0~95%
	Storage Temperature	-40°C ~ 80°C / -40°F ~ 176°F
Reliability	Mean time between failure (MTBF)	>10,000hours

*Specifications are subject to change without notice

List of Components:

- One (1) High Performance Video Ground Loop Isolator Filter
- One (1) User Manual

R&D Designed in Taiwan
Assembled in China

⚠ Caution:

- Do not connect this device to any power source.
- Do not handle the unit with wet hands.
- The unit is not waterproof and should not be used outdoors.

