

# **ENFORCER®**

## **VG-1C12BQ**

Video Ground Loop Isolator

### **Installation Manual**



- Reduces ground loop interference
- Built-in surge suppressor
- Passive operation – No external power required
- High immunity from interference – Built-in impedance coupled device and noise filter helps reduce RF interference, cross talk, picture tearing, and other picture quality problems
- BNC terminals for easy installation

**SLI SECO-LARM**



Note: Products with model numbers that end with "Q" or that have a round green "Q" sticker are RoHS compliant.

## Introduction:

The ENFORCER Video Ground Loop Isolator is a passive device that helps to reduce ground loop interference caused by a difference in ground potential. Ground loop isolators can be deployed in new installations or added to existing installations.

ENFORCER Video Ground Loop Isolators should be installed on the camera side of the cable and can be used with standard BNC coax cable or with video baluns.

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## Specifications:

Bandwidth	Video DC to 8Mhz	
Maximum input	1.0Vp-p	
Insertion loss	<0.5dB	
Frequency response	0-3dB at 10MHz	
Isolation voltage	600VDC (min.)	
Insulation resistance	100M $\Omega$	
Transient voltage suppressors	12 Vrms	
Connector	In	BNC Male
	Out	BNC Female
Impedance	75 $\Omega$ (BNC-to-BNC)	
Dimensions	27/8" x 13/32" x 3/4" (73 x 28 x 19 mm)	
Cable length	6" (152mm) each side	
Weight	2.3-oz (65g)	
Material	ABS Black	
Operating temperature	32° ~ 131°F (0° ~ 55° C)	

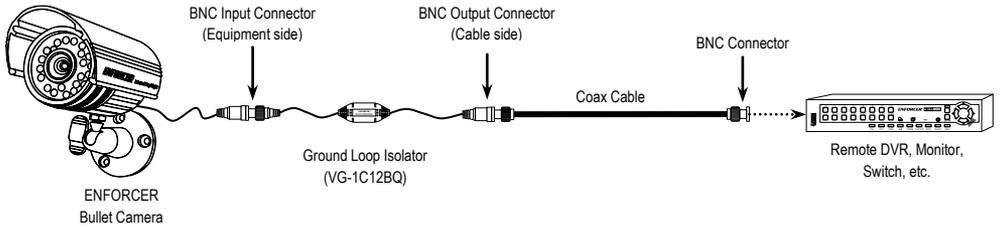
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## Installation:

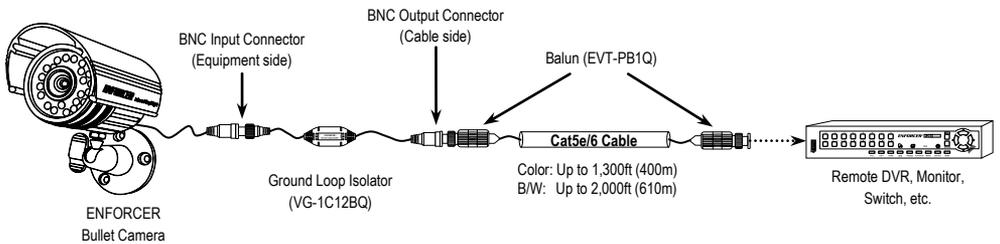
1. Detach the video cable BNC connector from the camera BNC connector.
2. Attach the equipment side of the VG-1C12BQ to the camera BNC connector.
3. Attach the video cable BNC connector to the cable side of the VG-1C12BQ.

## Sample Installations:

### Short run using coax cable



### Longer run using CAT5e/6 cable and video baluns



## Troubleshooting:

Wavy or ghost image if connected to image processor (e.g., multiplexer or DVR), but not if directly to monitor.

- Move the cable away from possible sources of interference.
- Ensure that the same twisted pair connects to a balun at both ends of the cable.
- Replace the cable with a new cable.

Image background flutters between dark and light.

- Remove a local power source, or adjust the monitor's brightness and contrast.

Image is wavy and shakes.

- Try reversing the polarity of the 2 wires at one end of the cable.

Image is weak or faded.

- Reduce the cable length.
- Replace with a higher-grade cable. CAT5 cable meets the specifications in the manual. CAT6 cable allows longer range.

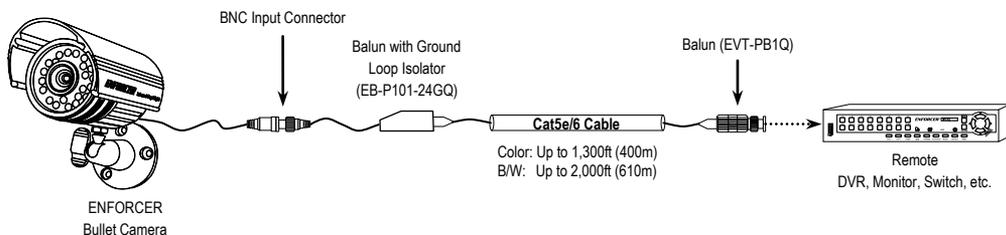
No image.

- Double-check that the cables were connected properly.
- Run a continuity test on all wires in the cable.

## Also Available:

### Video Balun with Ground Loop Isolator EB-P101-24GQ

Ideal for new CCTV installations where passive video baluns have not yet been installed



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**IMPORTANT:** Users and installers of this product are responsible for ensuring this product complies with all national, state, and local laws and statutes related to monitoring and recording audio and video signals. SECO-LARM will not be held responsible for the use of this product in violation of any current laws or statutes.

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**WARNING:** Incorrect mounting which leads to exposure to rain or moisture inside the enclosure could cause a dangerous electric shock, damage the device, and void the warranty. Do not open the case of this device, as there are no field-serviceable components inside.

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**WARRANTY:** This SECO-LARM product is warranted against defects in material and workmanship while used in normal service for a period of one (1) year from the date of sale to the original consumer customer. SECO-LARM's obligation is limited to the repair or replacement of any defective part if the unit is returned, transportation prepaid, to SECO-LARM. This Warranty is void if damage is caused by or attributed to acts of God, physical or electrical misuse or abuse, neglect, repair, or alteration, improper or abnormal usage, or faulty installation, or if for any other reason SECO-LARM determines that such equipment is not operating properly as a result of causes other than defects in material and workmanship. The sole obligation of SECO-LARM, and the purchaser's exclusive remedy, shall be limited to replacement or repair only, at SECO-LARM option. In no event shall SECO-LARM be liable for any special, collateral, incidental, or consequential personal or property damages of any kind to the purchaser or anyone else.

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**NOTICE:** The information and specifications printed in this manual are current at the time of publication. However, the SECO-LARM policy is one of continual development and improvement. For this reason, SECO-LARM reserves the right to change specifications without notice. SECO-LARM is also not responsible for misprints or typographical errors.

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## SECO-LARM U.S.A., Inc.

16842 Millikan Avenue, Irvine, CA 92606

Tel: 800-662-0800 / 949-261-2999 Fax: 949-261-7326

Website: [www.seco-larm.com](http://www.seco-larm.com)

E-mail: [sales@seco-larm.com](mailto:sales@seco-larm.com)  MVG-1C12BQZZ\_1205.doc