

HD Ground Loop Isolator – BNC Male to BNC Female

GCB01HD



Quick Start Guide

Please read these instructions carefully before operating the unit and keep for further reference. All the examples and pictures used here are for reference only. The contents of this manual are subject to change without notice.

The Genie GCB01HD is a passive ground loop isolator for AHD, HDCVI, HDTVI and Analogue Video signal over coaxial cable. The device helps to combat interference issues caused by different ground potential during the signal transmission, which improves the video anti-interference capability and effectively eliminates tearing and scrolling pictures.

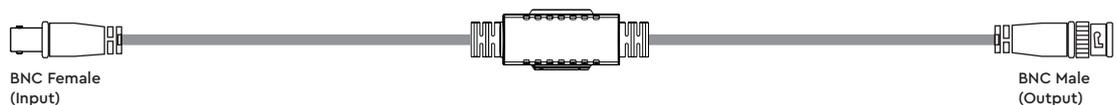
Features

- Passive, no power required
- Eliminate video distortion caused by ground loops circuit
- Eliminate issues as image tearing, cross-talk, rolling etc.
- Built-in 800v insulated voltage
- Fully compatible with HDCVI, HDTVI, AHD, Analogue video signals
- Excellent anti-interference capability, superior lightning-protection, ESD and EFT capability

Specifications

Function	Insertion Loss	0.5dB
	Frequency Response	5Hz-70MHz
	Input Impedance	75Ω
	Output Impedance	75Ω
	Isolation Voltage	800V (Minimum)
	Isolation Resistance	100M Ω
Protection	Surge Protection	Level 3 Per IEC61000-4-5
	ESD Protection	Contact Discharge: 6KV, Air Discharge: 8KV, Per IEC61000-4-2
Others	Operation Temperature	-10°C ~ 55°C
	Storage Temperature	-40°C ~ 85°C
	Humidity	0~95% (Non-Condensing)
	Dimensions	41 × 24.5 × 21.6 mm
	Weight	51g

Board Diagram



Installation Steps

Please check the following items before installation.

If anything is missing, please contact dealer.

- GCB01HD
- User Manual

Please follow the steps as below:

1. Turn off the power supply of all the related devices before the installation, or the device would be damaged;
2. Check if the coaxial cable and other transmission lines are occupied by other devices.
3. Connect the BNC-M of the device to the NVR.
4. Connect the BNC-F of the device to the CCTV camera by coaxial cable.
5. Check if the installation is correct and device is good, make sure all the connection is reliable, power on the system.
6. Make sure the network system can work regularly.

Troubleshoot

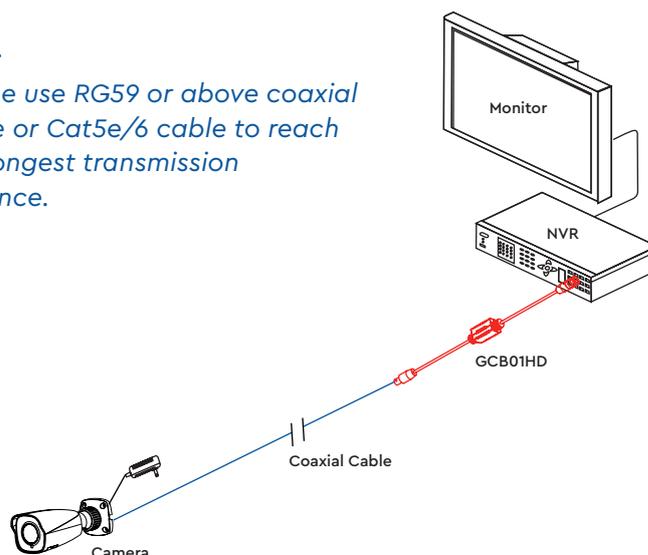
Please find the following solution when the device doesn't work:

- Please make sure you have followed the instruction to install the device.
- The transmission distance depends on the signal source and cable quality, please do not exceed the maximum transmission distance.
- Please replace a failure device with a proper one to check if the device is damaged.
- If the problem still exists, please contact your distributor.

Application

Note:

Please use RG59 or above coaxial cable or Cat5e/6 cable to reach the longest transmission distance.



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