

HD Coaxial Video Amplifier – 1x In, 1x Out with 10dB Gain

GCA01HD



User Manual

Please read these instructions carefully before operating the unit and keep for further reference.

genie

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1.0 Introduction

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

The Genie GCA01HD is a video amplifier designed to use an RG59 coaxial cable to send a video signal long distance with a transmission distance up to 800m.

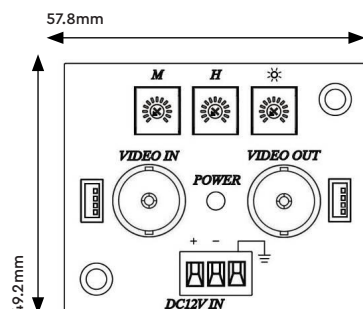
1.1 Product Features

- Boosts AHD, TVI and CVI signal for a longer distance over coax cable
- Supports AHD / TVI / CVI up to 1080p and 4K camera
- Supports TVI 1080p/720p 600m
- Supports CVI 1080p/720p 800m
- Supports AHD 1080p/720p 800m
- Built-in middle frequency, high frequency and brightness adjustment
- Package includes a jumper and power adapter
- Allow to use one power adapter for multiple amplifiers , a jumper is needed to extend power (Max of 3 units per power adapter)

1.2 Specification

Supports	Video Format	AHD / TVI / CVI
	Maximum Video Resolution	1080p
	Transmission Distance	AHD / CVI: 800m @ 1080p TVI: 600m @ 1080p
	Bandwidth	50Hz to 60MHz (-3dB)
Ports & Interfaces	Video Input/ Output	1 x BNC (1V p-p, 75Ω)
	Link Interface	1 x BNC (1V p-p, 75Ω)
Others	Power Supply	DC12V 500mA
	Power Consumption	150mA (Max)
	Temperature	Operation: 0 ~ 55°C, Storage: -20 ~ 85°C, Humidity: Up to 95%
	Dimensions	57.8 × 49.2 × 41.7 mm
	Weight	70g

1.3 Dimensions



2.0 Functions

2.1 LED Indicators

GREEN	
ON	Power On
OFF	Power Off

2.2 Adjustment Switch

M – Middle frequency gain

H – High frequency gain

* – Brightness

2.3 Cable and Transmission Distance

A high quality 75Ω coaxial RG59/RG6U link cable is recommend to use. The transmission distance will be affected by different quality of camera, DVR and BNC connector, cable, installation...etc.

AHD	TVI	CVI
1080p: 800m	1080p: 600m	1080p: 800m
4MP: 800m	5MP: 400m	4K: 400m

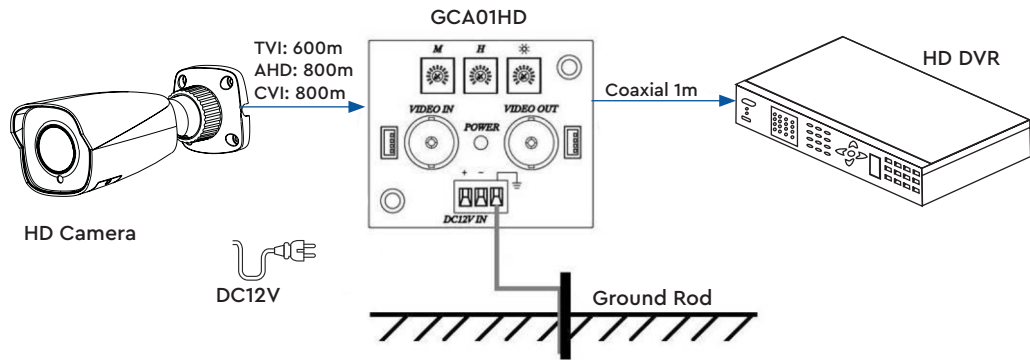
2.4 Using Multiple GCA01HD

When using multiple GCA01HD, it is recommend to use an attached jumper cable to extend power by one power adapter (Recommend using a DC12V 1.5Amp power adapter to support 8 pieces GCA01HD).

3.0 Installation

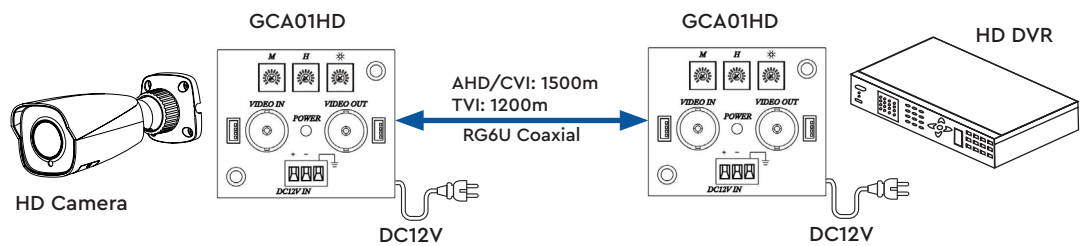
3.1 Application

Install at DVR side:



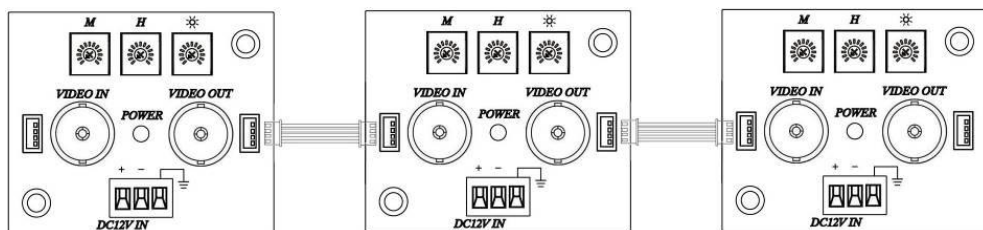
3.2 Installing 2x GCA01HD

Install 1x GCA01HD near camera side, the other one near DVR side:



3.3 Installing Multiple

When using a multi-amplifier, a jumper is needed to extend power. (Maximum of 3 units by DC12V/500mA power adapter package included).



4.0 Troubleshooting

1. Recommend the shortest connection distance over 150m to avoid too strong signal amplification.
2. If the middle and high frequency / sharpness gain adjustment are too strong or too weak, that will cause video distortion, colour change or disappear. Please properly adjust based on different distances.
3. The unit built-in transient protection, please make sure to make the proper grounding.
4. When using chainable power, the maximum could connect up to 10 units. Make sure the power adapter used is bigger than the total power consumption.

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