



HD-TVI/ AHD/ HD-CVI/ CVBS Amplifier Series

# User Manual

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Model : CA101HD

HD-TVI/AHD/HDCVI/CVBS Coax Video Amplifier



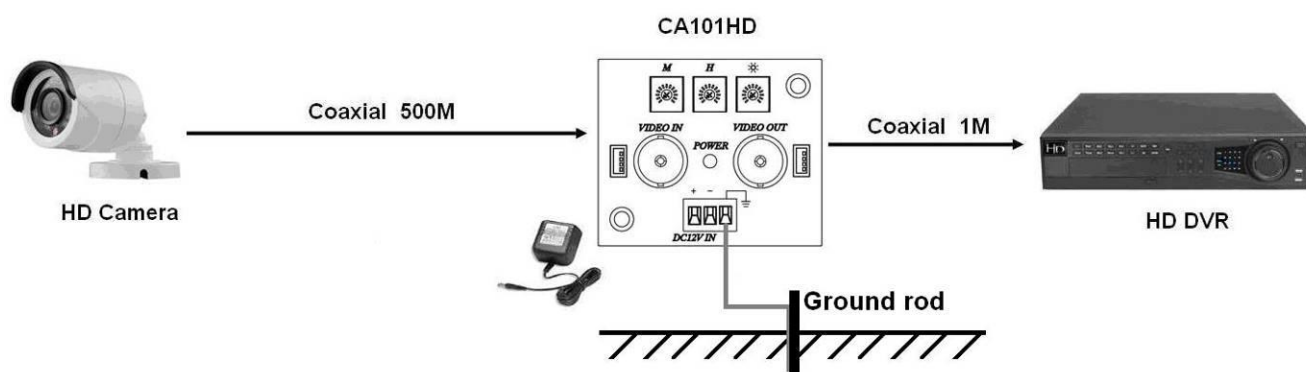
## Introduction

CA101HD is a video amplifier designed to use an RG59 coaxial cable to send a video signal for a long distance with a transmission distance up to 800M.

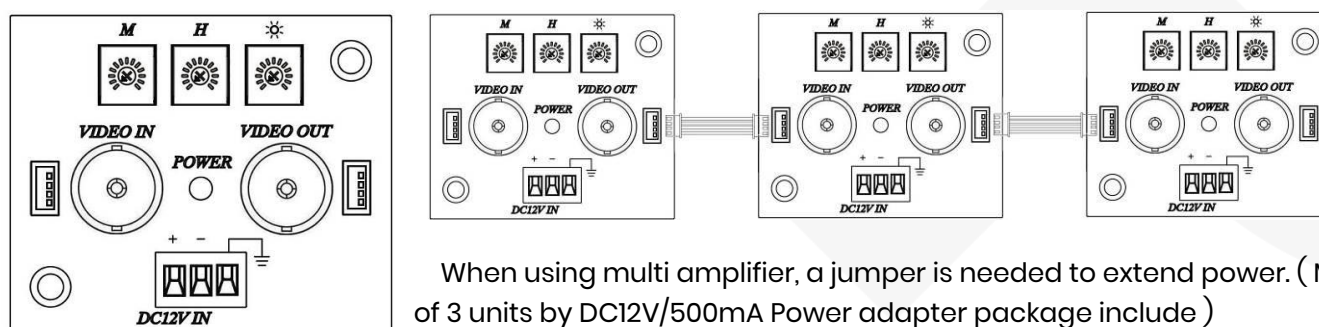
## Features

- Supports HD-TVI, AHD, HDCVI video formats.
- Resolution up to 4K.
- Signal extension up to 800M
- Frequency and brightness adjustable.

## Installation View

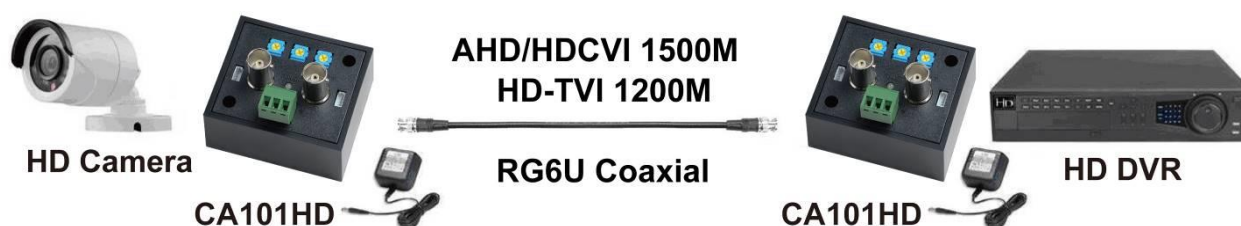


## Panel View



## Installation 2 pieces of CA101HD

One install CA101HD near camera side, the other one near CA101HD at DVR side



## LED Indication

GREEN  
ON            Power ON  
OFF          Power OFF

### Adjustment Switch

M    Middle frequency gain  
H    High frequency gain  
☀    Brightness

### Cable & Transmission Distance

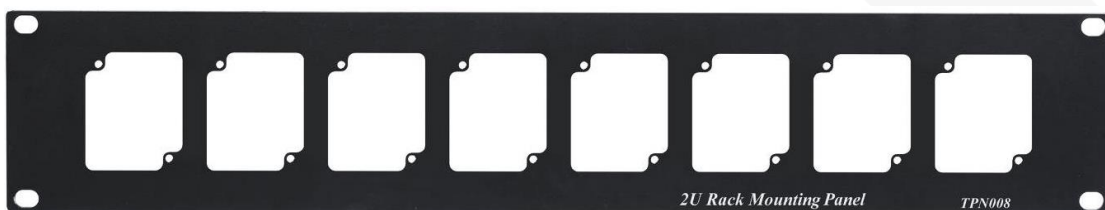
Link cable recommend use high quality 75ohm coaxial RG59/RG6U cable. The transmission distance will be affected by different quality of Camera, DVR and BNC connector, cable, installation...etc.

Transmission Distance Chart:

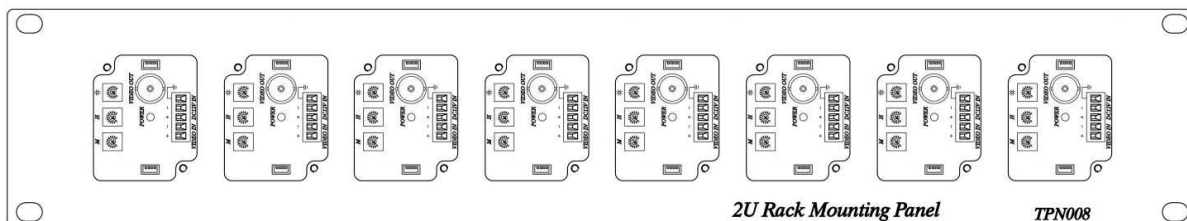
HD-TVI	AHD	HDCVI
1080P 600M	1080 800M	1080P 800M
5MP 400M	4MP 800M	4K 400M

### Option Model For CA101HD

#### TPN008    2U RACK MOUNTING PANEL Features



- Ideal for security monitoring stations or video distribution hubs.
- Standard 19-inch (482mm) wide, 3.5-inch (88mm) 2U high.
- Supports up to 8 pieces of CA101HD.
- This heavy-gauge panel is designed to withstand the mechanical load of multiple cables.
- When using multi amplifier 8 pcs to fit in TPN008 rack, recommend to use attached jumper cable to extend power by one power adapter. ( Recommend use DC12V 1.5Amp power adapter to support 8 pieces CA101HD)



## Trouble Shooting

1. Recommend the shortest connection distance over 150M to avoid too strong signal amplification.
2. If the middle & high frequency/sharpness gain adjustment are too strong or too weak that will cause video distortion, color change or disappear, please do properly adjustment based on different distance.
3. The unit built in transient protection, please make sure to make the proper grounding.
4. When using chainable power for CA101HD, the max. could connect up to 10 units; make sure the power adapter used must be bigger than the total power consumption.

## Specifications

ITEM NO.	CA101HD
Support	
Video Format	HD-TVI, AHD, HDCVI
Max. Video Resolution	1080p
Transmission Distance	HD-TVI 600M at 1080p AHD 800M at 1080p HDCVI 800M at 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)
Power	
Power Supply	DC 12V 500mA
Power Consumption	150mA (Max)
Ambient Temperature	
Operation	0 to 55°C
Storage	-20 to 85°C
Humidity	Up to 95%
Physical Characteristics	
Dimensions	57.8 x 49.2 x 41.7mm
Weight	70g