

## Introduction

TTA111HD is a video extender that uses a cost-effective UTP cable to send HD-TVI/ AHD/ HDCVI video to a remote video recorder.

## Features

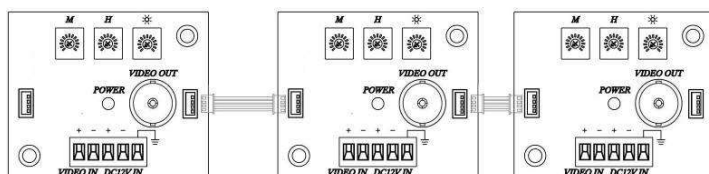
- Supports HD-TVI, AHD, HDCVI video formats
- Resolution up to 4K (8MP).
- Signal extension up to 500M.
- Built in L, M, and H high frequency video gain.
- Built-in transient protection for ground lifting, voltage spike damage.

## Installation View

### Point-to-point transmission



### Chaining multiple TTA111HDRs



- When chaining multiple TTA111HDRs, jumpers should be used for transferring power.
- Make sure to supply enough power (Greater than total power consumption) to enable the amplifiers.
- Chain up to 5 units of TTA111HDR.

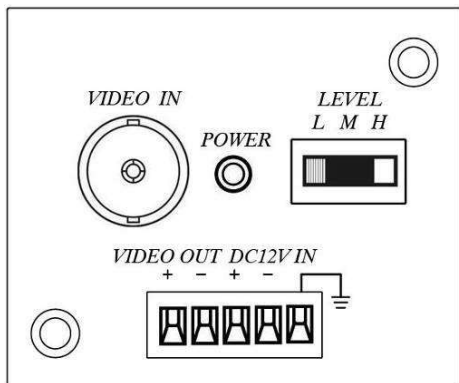
## Transmission Distance

Resolution	HD-TVI	AHD	HDCVI	CVBS
8MP (4K)	300M	500M	250M	N/A
5MP	350M	500M	N/A	N/A
1080p	400M	500M	400M	N/A
720p	400M	600M	600M	N/A
576i	N/A	N/A	N/A	900M
480i	N/A	N/A	N/A	900M

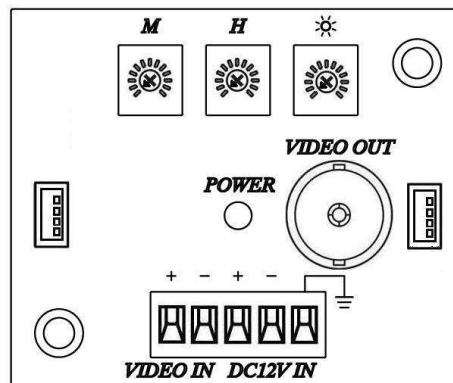
The transmission distance may vary by connected devices, connectors, cables, and installation...etc. Using high quality 75ohm coaxial RG59/RG6U cable is recommended.

## Panel View

TTA111HDT



TTA111HDR



Model	Interface	Description
TTA111HDT	VIDEO IN	To connect a CCTV camera
	POWER	To indicate power status
	LEVEL (L/M/H)	To adjust frequency
	VIDEO OUT	To connect TTA111HDR
	DC12V IN	To supply power
	⏏	To connect to the ground

Model	Interface	Description
TTA111HDR	M/ H/ ☀	To adjust frequency and brightness
	POWER	To indicate power status
	VIDEO OUT	To connect a DVR
	VIDEO IN	To connect TTA111HDT
	DC12V IN	To supply power
		⏏

## LED Indication

LED Indication	LED Color	Function
Power	Green ON/OFF	Power ON/OFF

## Switch Adjustment

Model	Interface	Description
TTA111HDT	M	Medium frequency gain
	H	High frequency gain
	☀	Brightness
TTA111HDR	L	High frequency gain + 6 dB
	M	High frequency gain + 9 dB
	H	High frequency gain + 11 dB

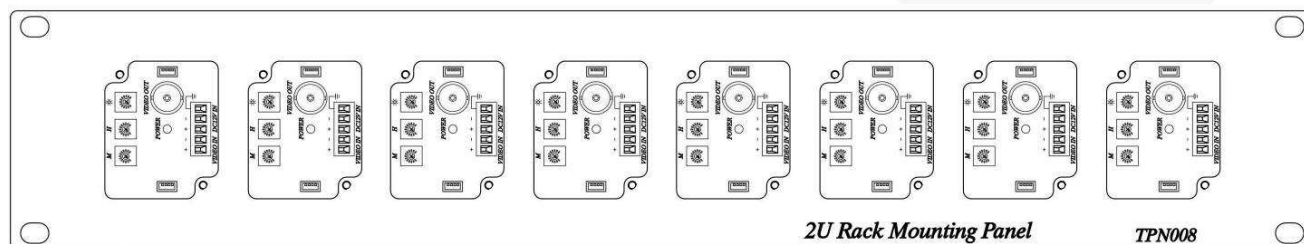
- TTA111HDT (transmitter) has to be configured from “L” level, and then start to adjust TTA111HDR (receiver).
- If the video is not performing well, you can switch the frequency to “M” level on TTA111HDT and adjust TTA111HDR again.

## Option Model:

### TPN008 2U Rack Mounting Panel

The heavy-gauge panel is designed to withstand the mechanical load of multiple cables.

- Standard 19 inch (482mm) wide, 3.5 inch (88mm) 2U height.
- Organizes up to 8 pieces of TTA111HDT or TTA111HDR.



## Trouble Shooting

- Make sure power and connection between Tx and Rx are wired in the right polarity.
- Make sure both Tx and Rx devices are properly grounded to avoid voltage spikes.
- DO NOT switch to High frequency at the beginning, since it might cause over-amplification.
- To avoid signal over-amplification, please keep connection distance over 150M.
- If video distortion, color change or no video shown, please properly adjust frequency and brightness on TTA111HDR based on different distances.

## Specification

ITEM NO.	TTA111HDT	TTA111HDR
Support		
Video Format	HD-TVI, AHD, HD-CVI, CVBS	
Max. Video Resolution	8MP (4K)	
Max. Transmission Distance	500M	
Signal Bandwidth	50Hz to 60MHz ( -3dB )	
Ports & Interfaces		
Video Input	1 x BNC Male (1 Vp-p, 75 Ω)	1 x 5 Pin Terminal (100 Ω)
Video Output	1 x 5 Pin Terminal (100 Ω)	1 x BNC Male (1 Vp-p, 75 Ω)
Switch	1 x Slide Switch (3 Levels)	
Power		
Power Supply	DC 12V 500mA	DC12V 500mA
Power Consumption	70mA (Max)	150mA (Typical), 220mA (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	57.8 x 49.2 x 41.7
Weight	70g	70g