



Twisted Pair Active Series

User Manual

Model: TVIUTPA

HD-TVI Active UTP Balun Kit



Introduction

TVIUTPA is a video extender that uses a cost-effective UTP cable to send HD-TVI/ AHD/ HD-CVI/standard analog video to a remote video recorder.

Features

- Supports HD-TVI, AHD, HDCVI video formats
- Resolution up to 4K (8MP).
- HD-TVI Signal extension up to 1312' (400M), depending on cable quality and resolution.
- Built in L, M, and H high frequency video gain.
- Built-in transient protection for ground lifting, voltage spike damage.

Installation View



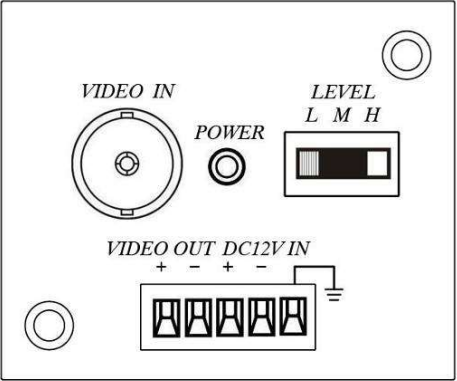
Transmission Distance

Resolution	HD-TVI	AHD	HDCVI	CVBS
8MP (4K)	984' (300M)	1640' (500M)	820' (250M)	N/A
5MP	1640' (500M)	1640' (500M)	N/A	N/A
1080p	1312' (400M)	1640' (500M)	1312' (400M)	N/A
720p	1312' (400M)	1968' (600M)	1968' (600M)	N/A
576i	N/A	N/A	N/A	2952' (900M)
480i	N/A	N/A	N/A	2952' (900M)

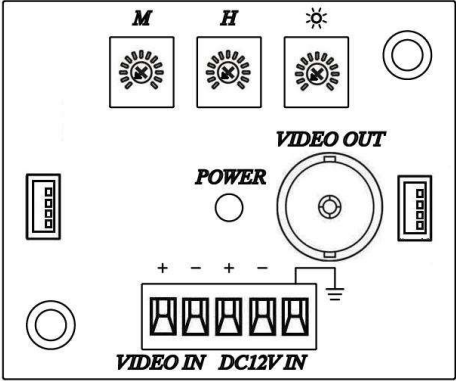
NOTE: The transmission distance may vary by connected devices, connectors, cables, and installation...etc. Using high quality 75ohm coaxial RG59/RG6U cable is recommended.

Panel View

TVIUTPAT



TVIUTPAR




Model	Interface	Description
TVIUTPAT	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
TVIUTPAR	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
		To connect to the ground

LED Indication

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

Switch Adjustment

Model	Interface	Description
TVIUTPAT	M	Medium frequency gain
	H	High frequency gain
		Brightness
TVIUTPAR	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 TVIUTPAR (receiver).
- If the video is not performing well, you can switch the frequency to “M” level on TVIUTPAT and adjust TVIUTPAR again.

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 from the start, since it might cause over-amplification.
- To avoid signal over-amplification, please use a minimum connection distance of 492’ (150M.)
- If video is distorted, colors change or no video is shown, please properly adjust frequency and brightness on TVIUTPAR (and note it could change with different distances.)

Specification

ITEM NO.	TVIUTPAT	TVIUTPAR
Support		
Video Format	HD-TVI, AHD, HD-CVI, CVBS	
Max. Video Resolution	8MP (4K)	
Max. HD-TVI Transmission Distance	1640' (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	32 to 131°F (0 to 55°C)	
Storage	-4 to 185°F (-20 to 85°C)	
Humidity	Up to 95%	
Physical Characteristics		
Dimensions	2.3 x 1.9 x 1.6'' (57.8 x 49.2 x 41.7mm)	2.3 x 1.9 x 1.6'' (57.8 x 49.2 x 41.7mm)
Weight	0.2 Lbs (70g)	0.2 Lbs (70g)

RoHS 

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