

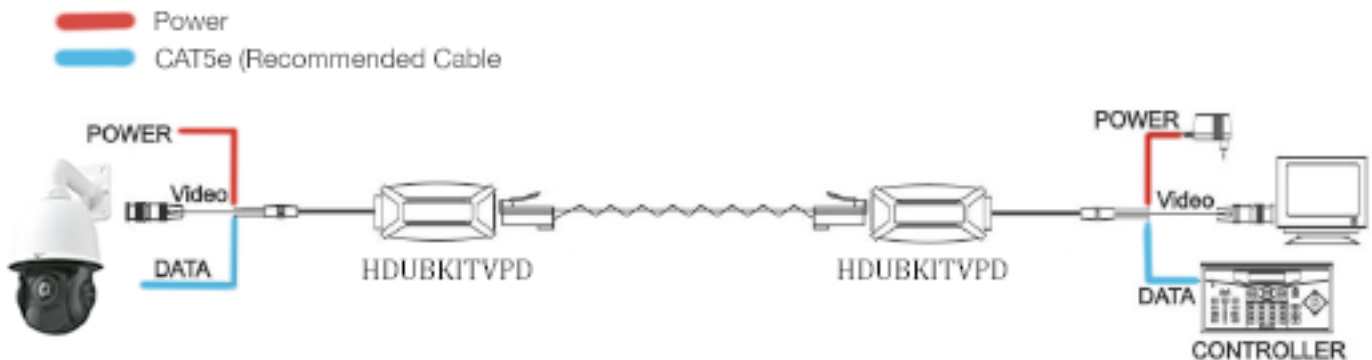
# AHD/ HD-TVI/ HDCVI TWISTED PAIR TRANSMISSION SYSTEM Passive Series

**ITEM NO.:** HDUBKITVPD HD VIDEO, POWER, DATA COMBINER



- HDUBKITVPD: Male BNC with 2 mini-coax pigtail to RJ45 connector.
- AHD/ HD-TVI/ HDCVI Video, low voltage camera power, Data (RS485) transmission over one CAT5e cable.
- Max. transmission distance up to 300M
- Eliminate coaxial & power, data cable.
- Fast, easy installation, saving time and money.
- Substantial saving on the cost of the cable itself.
- Built in ESD, EFT(impulse noise) and transient protection.

## Installation View:



- ◆ Remote Power by DC24V/AC24V, please use our model no: PC500/PC1A power converter (AC to DC for regulated DC12V ) at camera side to send regulated DC12V for camera use.

## Transmission Distance Chart:

### Video Transmission Distance (Max):

Cable	AHD (M)	HD-TVI (M)	HDCVI (M)
CAT5e	300	250	300

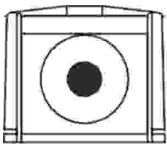
## Power Transmission Distance:

### Voltage Drop According to Cable Length (24AWG):

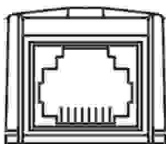
Voltage	DC12V		
Distance	50M	100M	300M
Camera Power Consumption	3 PAIRS	3PAIR	3 PAIR
50mA	11.8	11.5	10.8
100mA	11.5	10.9	9.6
150mA	11.2	10.4	8.4
200mA	11	9.9	7.2
250mA	10.7	9.4	5.9
300mA	10.4	8.9	4.7
350mA	10.2	8.4	3.5
400mA	9.9	7.9	2.3
450mA	9.6	7.5	1.1
500mA	9.3	7	1.2
1A	6.8	2.7	X
1.5A	4.1	X	X

Voltage	DC24V		
Distance	50M	100M	300M
Camera Power Consumption	3 PAIR	3 PAIR	3 PAIR
50mA	23.6	23.3	22.8
100mA	23.3	22.7	21.6
150mA	23	22.3	20.4
200mA	22.8	21.8	19.1
250mA	22.5	21.3	17.9
300mA	22.2	20.8	16.7
350mA	21.9	20.3	15.5
400mA	21.7	19.8	14.2
450mA	21.4	19.4	13
500mA	21.1	18.9	11.8
1Amp	18.7	14.7	0.8
1.5Amp	16.1	10	X

### Panel View:



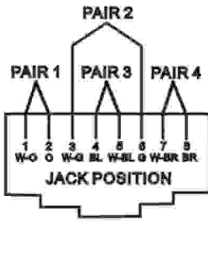
Front



Rear

## RJ-45 Jack Pin Define

RJ - 45 Jack		
PIN	Color	Function
1	W-O	DATA +
2	O	DATA -
3	W-G	POWER -
4	BL	POWER +
5	W-BL	POWER -
6	G	POWER +
7	W-BR	Video +
8	BR	Video -



### Recommend Cable:

Use high quality CAT5e UTP or CAT6 UTP cable. The max working distance is 300M for AHD, CVI camera, HD-TVI max. distance is 250M. The distance may be affected by the quality of cable, camera, DVR.

### Caution:

1. The cabling must be away from any equipment with electromagnetic wave, i.e.: microwave, mobile phone, radio equipment, high voltage power cable.
2. Remote Power by DC24V/AC24V, please use our model no: PC500/PC1A power converter (AC to DC for regulated DC12V ) at camera side to send regulated DC12V for camera use.

### Specification:

ITEM NO.	HDUBKITVPD
Video Input / Output Terminals	BNC x 1 ( 1 Vp-p , 75 Ohm)
Video Output / Input Terminals	RJ45 x 1 ( 100 Ohm )
Power	DC-PLUG DC-JACK
Data	Data cable
Bandwidth	50Hz ~ 60MHz ( -3dB )
Transmission Distance	AHD / HDCVI: 300M, HD-TVI: 250M
ESD protection	30 KV(Air) , 15 KV (Contact) ; IEC 61000-4-2 compliant
EFT protection	40A(5/50ns) ; IEC 61000-4-4 compliant
Lightning protection	2A (8/20μs) ; IEC 61000-4-5 compliant
Surge Protection	< 1 nS
Environmental Specifications	Operation: 0 to 55°C , Storage: -20 to 85°C , Humidity: up to 95%
Dimension (mm)	69 x 25 x 20.7 (+120mm pigtail cable)
Weight g	45