

Specification

Item	Description
Function	Transmission Channel: 1ch
	Output: 2ch
Power	Distance: Please refer to table 1, 2, 3, 4
	Voltage Range: DC12V-40V or AC 9V-24V
Video Transmission	Power Rate: < 1W
	Coaxial Port: Female BNC
	UTP Cable Port: 5pin port
	Video System: HDCVI, HDTVI, and PAL, NTSC, SECAM system
DIP	Signal Bandwidth: 75MHz
	Anti-Interference: > 75dB
Status	DIP Switch: Blue 4pin Adjustment
	PowerLED: Red
Protection	SignalLED: Yellow
	Power Port Protection: 2KV/1KA Per: IEC61000-4-5
	Coaxial Port Protection: 2KV Per: IEC61000-4-5
Environment	RJ45 Port Protection: 2KV (Different Mode) 4KV (Common Mode) Per: IEC61000-4-5
	ESD: 1a contact discharge Level 3 1b air discharge Level 3 Per: IEC61000-4-2
Structure	Working Temperature: 0°C-55°C
	Storage Temperature: -40°C-85°C
	Humidity: 0-95%
Structure	Size: 115mm x 82mm x 22mm
	Case: Aluminum
	Color: Silver/white N.W.: 180g

Specification change will not be noticed.

Problem Examination

- Please find the following solution when the device doesn't work.
- Please make sure the installation is according to the instruction.
 - Please make sure the RJ45 cable plug both support 568A or 568B.
 - Please make sure each UTP cable is according to the related channel.
 - Please examine the port of BNC, RJ45.
 - Please make sure the distance is not surpass the max distance.
 - Please make sure the transmission cable is reliable.
 - Please replace the failure product with a working one.
 - Please contact your local dealer if the problem still exist.

Adjustment Diagram

- Single channel HD video active transmitter for analog video:

Mode	1	2	3	4	5
Distance	0-600m	150-750m	300-900m	450-1050m	600-1200m
Switch					

Table 1

- Single channel active receiver for analog video:

- Active transmitter working with active receiver:
- ▶ Real distance less than 600m: choose mode 1 in table 2 for receiver. choose relative mode in table 1 for transmitter;
 - ▶ Real distance more than 600m: choose mode 5 in table 1 for transmitter. choose relative mode in table 2 for receiver hub.

Mode	1	2	3	4	5
Distance	0-600m	150-750m	300-900m	450-1050m	600-1200m
Switch					

Table 2

- Passive transmitter working with active receiver for analog video:
- ▶ Real distance should be no more than 600m; refer to table 3 for the active video receiver hub, the passive transmitter needs no adjustment.

Mode	1	2	3	4	5
Distance	0-50m	50-250m	250-400m	400-500m	500-700m
Switch					

Table 3

- Single channel HD video active transmitter for HD video:

Mode	HDCVI 720P	HDCVI 1080P	HDTVI 720P/1080P	AHD-L/M 720P/960P	AHD-H 1080P
Distance	0-500m	0-300m	0-300m	0-800m	0-450m
Switch					

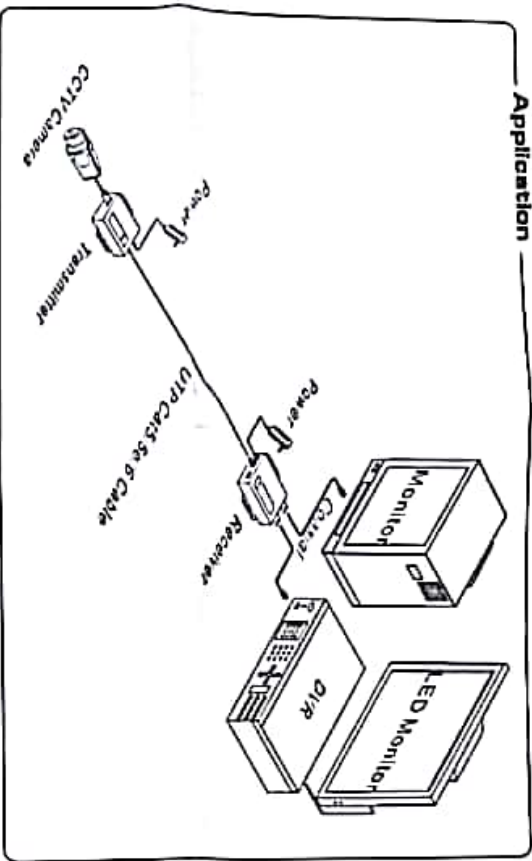
Table 4

1ch HD Video Active Transmitter User Manual

VA821

The product is a 1ch HD Video active transmitter. The product adopts Cat 5/5e/6 UTP cable as transmission medium. It can real-time transmit 1ch color or mono PAL/NTSC/SECAM or HDCVI, HDTV, AHD video signal. It can work together with active receivers. It features long transmission distance, good transmission effect, super anti-interference, widely CCTV surveillance system.

Application



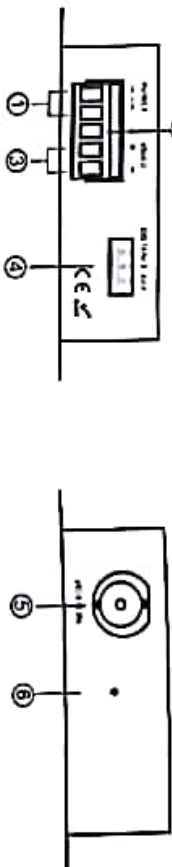
Feature

- Power: DC12V - 40V/AC 9V - 24V.
- Transmission: real time transfer PAL, NTSC, SECAM or HDCVI, HDTV, AHD video signal with high quality video.
- Recommendation transmission distance as below:
 - 1) HDCVI 1080P: 300m; HDCVI 720P: 500m (work with active UTP receiver);
 - 2) HDTV 1080P/720P: 300m (work with active UTP receiver);
 - 3) AHD-L/M 720P/960P: 800m; AHD-H 1080P: 330m (work with active UTP receiver);
 - 4) Analog Video 0 - 1200m (work with active UTP receiver);
- Function: adopts UTP cable for the transmission, support DIP adjustment.
- Protection: Wide range voltage AC/DC power input, strong surge protection and anti-interference.
- Structure: delicate design, support MIT track.

Notice

Please use standard UTP cable and coaxial to provide the transmission quality.

Board Diagram



1ch HD Video Active Transmitter

NO.	Component	Description
①	Power supply block	Power supply input
②	Green terminal block	Grounding
③	Green terminal block	For UTP cable
④	4PIN blue switches	For distance adjustment
⑤	BNC-F	Video input
⑥	MIT Pole	For MIT Installation

Installation Steps

Please check the following item before installation. If it's missing, please contact the dealer

- Transmitter 1set
- User Manual 1set

Installation

- 1) Please close the camera and monitor's power before installation;
- 2) Please connect the camera port and the transmitter's input port (BNC) with coaxial;
- 3) Please plug the monitor port and the receiver's output port (BNC) with coaxial;
- 4) Please connect the UTP cable with the receiver and transmitter (VIDEO + - port).
- 5) Please adjust the DIP adjustment according to the instruction;
- 6) Please examine the system.