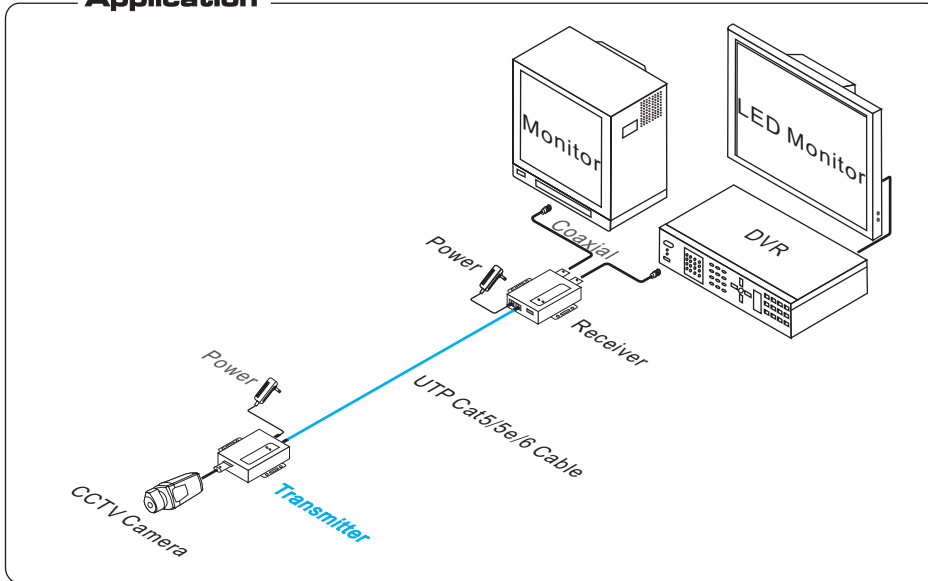


1ch HD Video Active Transmitter User Manual

VerB 2.1

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、HDTVl、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



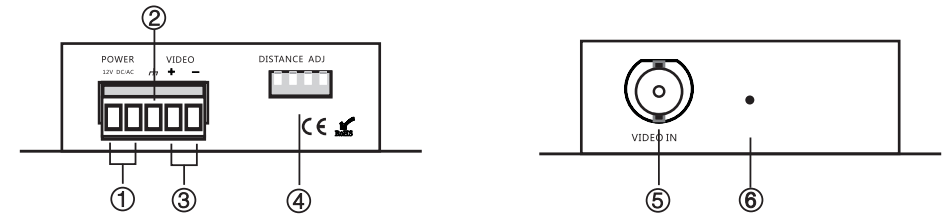
Feature

- Power:DC12V ~ 40V/AC 9V ~ 24V;
- Transmission: real time transfer PAL、NTSC、SECAM or HDCVI、HDTVl、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)HDTVl 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)Anlog 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 rack.

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.

Specification

Item	Description	
Function	Transmission Channel	1ch
	Output	2ch
	Distance	Please refer to table 1,2,3,4
Power	Voltage Range	DC12V~40V or AC 9V~24V
	Power Rate	<1W
Video Transmission	Coaxial Port	Female BNC
	UTP Cable Port	5pin port
	Video System	HDCVI, HDTV1, AHD, PAL, NTSC, SECAM system
	Signal Bandwidth	75MHz
DIP	Anti-interference	>75dB
	DIP Switch	Blue 4pin Adjustment
Status	Adjustment mode	DIP
	Power LED	Red
Protection	Signal LED	Yellow
	Power Port Protection	2KV/1KA Per: IEC61000-4-5
	Coaxial Port Protection	2KV Per: IEC61000-4-5
	Rj45 Port Protection	2KV (Different Mode) 4KV (Common Mode) Per: IEC61000-4-5
Environment	ESD	1a contact discharge Level 3 1b air discharge Level 3 Per: IEC61000-4-2
	Working Temperature	0°C~55°C
	Storage Temperature	-40°C~85°C
Structure	Humidity	0~95%
	Size	115mm × 82mm × 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	HDTV1 720P/1080P	AHD-L/M 720P/960P	AHD-H 1080P
Distance	0-500m	0-300m	0-300m	0-800m	0-450m
Switch					

Table 4