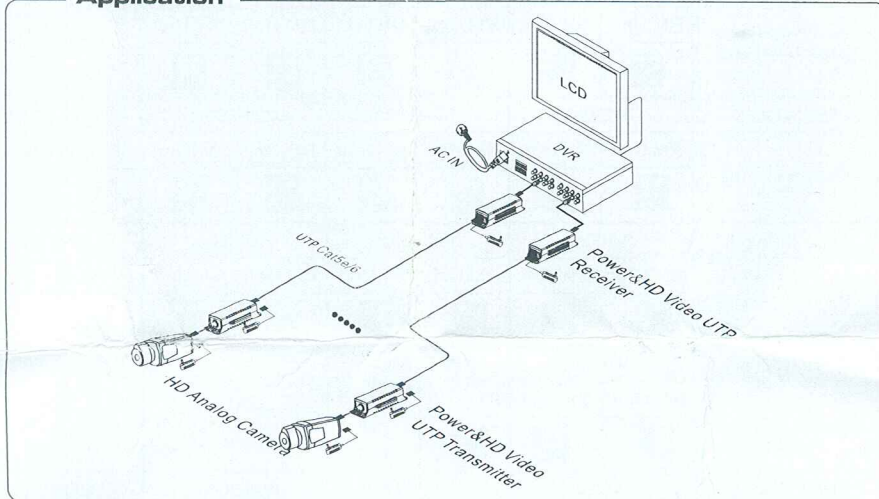


# 1ch HD Analog Video Active UTP Transceiver User Manual

VerB 1.0

The 1ch HD analog video UTP transceiver transfers real-time analog video signal up to 1200m through Cat5/5e/6 cable. It is compatible with analog video signals of CVBS, HDCVI, HDTVI, and AHD. The transceiver consists of SV unit connecting with DVRs and RM unit with cameras. It features protections of surge immunity and ESD immunity. The transceiver with small volume and joinable design fits easily in many locations. (e.g., villa, super market, office, hotel)

## Application



## Feature

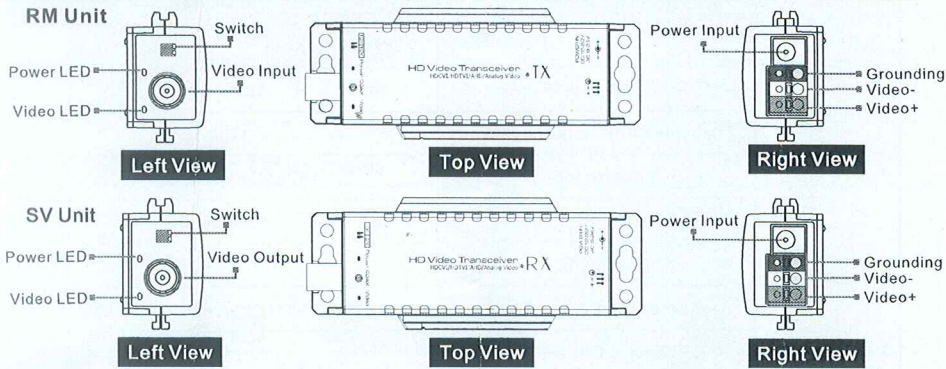
- Power supply: 12 ~ 20V DC / 9 ~ 24V AC ;
- Transmission signal: HDCVI, HDTVI, AHD, CVBS signals 4in1 full compatible design;
- Transmission distance: 0 ~ 1200m( work with active receiver);
- Major function: Adopt twisted-pair to transit video, switch adjust transmission distance;
- Safety Performance: Power high anti-interference, superior surge immunity, ESD protection and anti-interference ability, wide-voltage DC/AC input;
- Mechanics: Combined connection available, optional MIT rack, which satisfy multi channels centralized application. Transfer video signal in real-time via twisted-pair, active video transmission solution, max.1200m transmission distance.

## ! Notice

- 1) Standard Cat5e/6 cable and 75-4 or above coax are strongly suggested for reaching the maximum transmission distance!
- 2) Please use standard UTP cable and coax to ensure the stable transmission.

# 1 ch HD Analog Video Active UTP Transceiver

## Panel Diagram



## Installation Steps

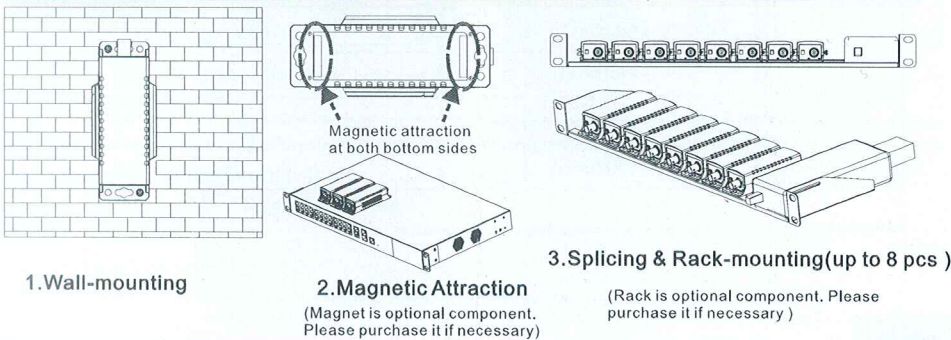
Please check the following items before installation, if it is missing, please contact the dealer.

- RM Unit 1pc
- SV Unit 1pc
- User Manual 1pc

Please follow installation steps as below:

- 1) Turn off the power of all the related devices before the installation; otherwise the device would be damaged;
- 2) Check if the any cable has been occupied by other device;
- 3) Connect corresponding ports of cameras and other related devices with Video BNC port of TX unit;
- 4) Connect the grounding terminal of TX unit by bare grounding wire and a pair Ethernet cable;
- 5) Connect the grounding terminal of RX unit by bare grounding wire and a pair Ethernet cable;
- 6) Connect display device and BNC port of RX unit by coaxial cable;
- 7) Connect power ports of RX and TX units by power cable;
- 8) Check the installation and connection of equipments are correct and the equipments are working properly, then power on system;
- 9) Make sure image displays and other devices are working.

## Installation Methods



**Specification**

Item		Parameter	
		Transmitter	Receiver
Function	Transfer Signal Number	1ch Video	
	Transmission Distance (Max.)	1200m	
Power Supply	Voltage Input	DC12-20V or AC9-24V	
Video Performance & Connector	Video Connector	1×BNC(Male)	
	Cable Port	1×3Pin Terminal	
	Compatible Video Type	HDCVI, HDTV, AHD, CVBS Signal	
	Transfer Bandwidth	0-75MHz	
	Signal Indicator	Yellow Solid on: Power input normal	
		Green Solid on: Signal input normal	
	Anti-interference	> 60dB	
	Surge Protection of Coaxial Port	2 KV Differential-mode 2KV Common-mode Per :IEC61000-4-5	
Protection Level	Surge Protection of Line Connector	Signal Line-pair : 2 KV Differential-mode 2KV Common-mode Per :IEC61000-4-5	
	ESD Protection	1a Contact Discharge 6 KV 1b Air Discharge 8KV Per :IEC61000-4-2	
Operation Environment	Operation Temperature	-10°C-55°C	
	Storage Temperature	-45°C-75°C	
	Humidity	0-95%( Non - condensing )	
Mechanics	Dimension	113mm×45.5mm×29mm	
	Material	Refractory ABS Plastics	
	Color	Black	
	Weight	65g	

*Product parameters are subject to change without prior notice!*

**Transmission Distance Table(Recommended)**

Signal Type	HDCVI 720P	HDCVI 1080P	AHD 720P/960P	AHD 1080P	HDTVI 720P	HDTVI 1080P
Transmission Distance	600m	500m	700m	300m	400m	400m

**Adjustment Diagram**

The transmission distances of different signals correspond to different switch settings as below:

HDCVI720P	0-150m		150-500m		500-600m			
Switch Setting	RM Unit 	SV Unit 	RM Unit 	SV Unit 	RM Unit 	SV Unit 		
HDCVI1080P	0-150m		150-200m		200-300m		300-500m	
Switch Setting	RM Unit 	SV Unit 	RM Unit 	SV Unit 	RM Unit 	SV Unit 	RM Unit 	SV Unit 
AHD720P/960P	0-300m		300-400m		400-600m		600-700m	
Switch Setting	RM Unit 	SV Unit 	RM Unit 	SV Unit 	RM Unit 	SV Unit 	RM Unit 	SV Unit 
AHD1080P	0-200m		200-300m					
Switch Setting	RM Unit 	SV Unit 	RM Unit 	SV Unit 				
HDTVI720P	0-50m		50-200m		200-300m		300-400m	
Switch Setting	RM Unit 	SV Unit 	RM Unit 	SV Unit 	RM Unit 	SV Unit 	RM Unit 	SV Unit 
HDTVI1080P	0-200m		200-300m		300-400m			
Switch Setting	RM Unit 	SV Unit 	RM Unit 	SV Unit 	RM Unit 	SV Unit 		

**Notice**

- 1) Please follow the steps for troubleshooting if power cuts or image displays abnormally under the longest transmission distance:
  - a. Restore switch of SV unit on 5X mark;
  - b. Reboot;
  - c. Adjust the switch when DVR works smoothly.
- 2) There are 2 marks of 10X on RM unit. Right mark features high definition and saturation.