

Summary

The unit is a device that allows the transmission of real-time video over Unshielded Twisted Pair cable. The video transmitter convert unbalanced video signal to balanced (same range but opposite polarized) difference signal transmitting via the UTP cable, have good common interferences rejection, under strong interference environment can transmit color video in high quality. Working hours much lessened and save cable cost.

Features

- **Longer transmission distance, high video signal quality**  
Use advanced video signal technology, better equalize video signal differs attenuation in UTP cable, Keep original video signal real-time, brightness, sharpness and colorful, and enable longer and better signal transmission.
- **Low cable and installation cost**  
Video transceiver use CAT5 or higher CAT UTP, even telephone cable (RJ11) can be use for video signal. Can use building already installation UTP cable, select any free pair for video transmit. One CAT5 UTP cable can use for audio signal, control signal and power too. Raise the utilization rate of UTP.
- **Outstanding interference rejection**  
The video transceiver is highly immune to common mode interference and Multi channel signals in the same cables transmission. Even in strong interference environment, the transceiver can transmit image in high quality.
- **High reliability, handled easily**  
Use UTP transmit video signal, camera connect video transmitter and video receiver connect monitor in control room. This device are cheap, handled easily, no need professional, one time installed, long time working.
- **12-24V wide input range and adapting AC or DC input; better transient protection.**

Transceiver setting and indication

Passive type transceiver no need power, according polarity mark connect UTP can work. Active type transceiver need input power and set gain for different distance, active transmitter have gain level setting, active receiver have bright and sharp setting. 4CH active receiver can use RJ45 jack or connector block connect UTP cable, according instruction connect UTP cable to 4CH active receiver. Active transceivers have power and video indicator LED, when power and video input the LED will turn on.

Active transmitter gain set  
>4000ft    4000-2000ft    0-2000ft

RJ45 jack instruction

PIN	Color	Function	PIN	Color	Function
1	W-O	Video+	5	W-B	NC
2	O	Video-	6	G	Data-
3	W-G	Data+	7	W-BR	Audio+
4	B	NC	8	BR	Audio-

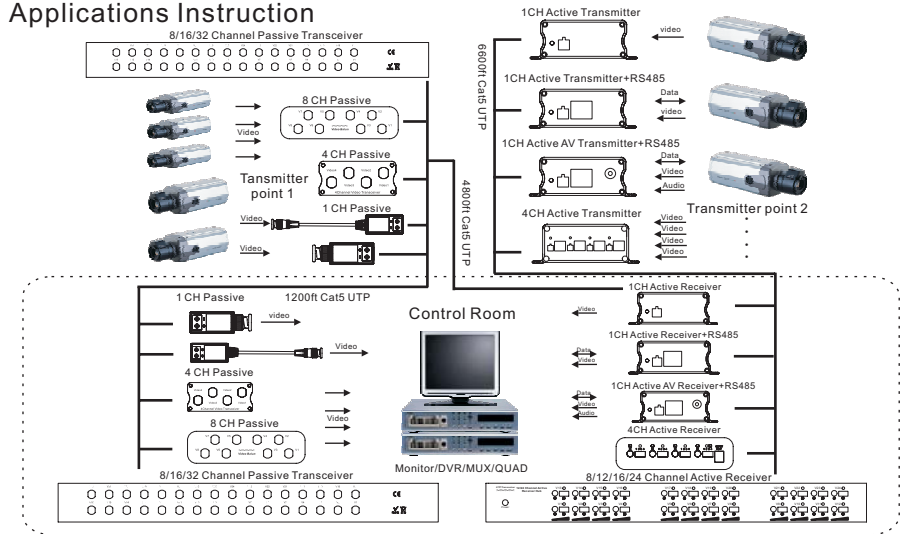
PIN	Color	Function
1	W-O	Video1 +
2	O	Video1 -
3	W-G	Video2 +
4	B	Video3 -
5	W-B	Video3 +
6	G	Video2 -
7	W-BR	Video4 +
8	BR	Video4 -

Active receiver sharpness setting chart (suggest for best color video transmit distance)

1000ft	2600ft	4000ft	5500ft
1300ft	3000ft	4350ft	5900ft
2100ft	3400ft	4900ft	6300ft
2400ft	3800ft	5200ft	6600ft

Applications Instruction



Malfunction Disposal

- 1. Monitor no video signal**  
Please check the power supply first, and then the device connector and wire joints, whether ok or not? Then check the UTP cable and modular plugs connecting situation according to the RJ45 instruction.
- 2. Tilted veins interference and high frequency interference appear on the image**  
Please check if the camera, housing, monitor and DVR creepage, in addition make the surface of transceiver connected terra; and then check the wire joint points connect well.
- 3. The image become BW form color or the color too light**  
If adopt active transferring project, please adjust transceiver gain, if use passive transferring project, please change active transferring project.
- 4. What cause about image twist and wobble**  
UTP RJ45 connector order mistake or UTP connector block polarity mistake, please as RJ45 jack instruction connect or turn right UTP connector block polarity.
- 5. The image to bright and white twist**  
Too strong the video signal received, please adjust sharpness DIP switch and brightness of receiver, and set to lower signal grade. And can according this manual select passive+passive or active+active or passive+active collocation for different distance.

Specifications

Transceiver Type	1ch video (passive)	4ch video (passive)	8ch video (passive)	8/16/32ch Hub 1U passive transceiver	1ch video (active)	1ch video 1ch audio 1ch data	4ch video receiver (active)	8/16/24ch Hub 1U active receiver
Video	Frequency response range:DC-6MHz; Common-mode/differential-mode rejection:15KHz-6MHz 60dB typ.							
Wire type	24AWG UTP CAT5 or higher; DC loop resistance ≤ 18Ω/100m; Differential capacitance:62pF/m(max)							
Impedance	UTP or Connection or RJ45: 100Ω				BNC COAX: 75Ω			
Power	/				AC or DC 12-24V <80mA		12V<300mA	AC100-240V 50/60Hz
Suppression	/							
Dimensions	47×15×16	81×82×29	120×78×32	432×97×44	81×82×29	81×82×29	120×97×32	432×97×44
Weight (g)	C-20;L-16	100	210	1010/1110/1310	88	105	220	1200/1320/1500
Environment	Temperature: (-20~60℃) Humidity: (0%~95%)							