

TWISTED PAIR TRANSMISSION SYSTEM – Passive Series

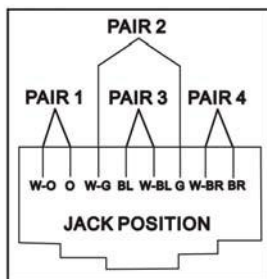
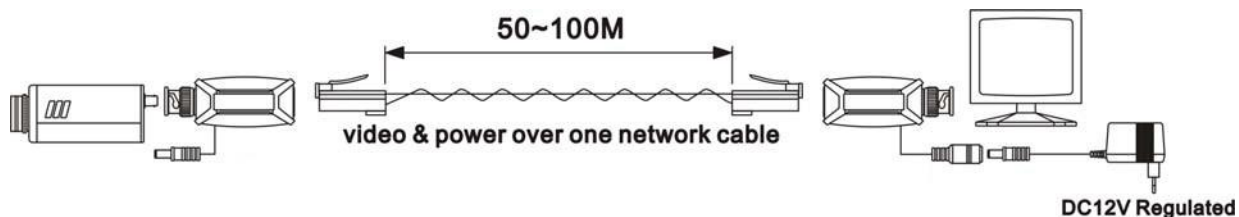
Video & Power Transceiver



Features:

- Send Video & power over one CAT-5E UTP cable, add you own power supply.
- Send color video signals up to 300 meters; B/W to 600 meters.
- Power cable could be one, two, or three pairs option based on camera power consumption and transmission range.
- Eliminate coaxial & power cable.
- Use with pair, transmit video and power, data over one CAT5 cable. Fast,
- easy installation, saving time and money.
- Substantial saving on the cost of the cable itself.
- Refer the page 2. "Voltage Drop According to Cable Length" for power transmission range.

Installation View:



RJ45 pin connect

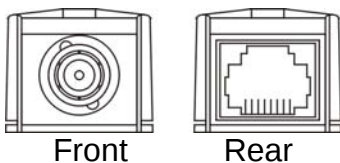
Pair 1 : 1. Orange-white & 2. Orange

Pair 2 : 3. Green -white – & 6. Green + —→ Power

Pair 3 : 5. Blue-white – & 4. Blue + —→ Power

Pair 4 : 7. Brown-white & 8. Brown —→ Video

Panel View:



Front

Rear

Specification:

ITEM NO.	JES-WSJHGU900	JES-WSJHGU900-R
VIDEO INPUT	BNC x 1 (75 Ω , 1 Vp-p)	
INTERFACE	RJ45 x 1	
POWER	Pass Through	
TEMPERATURE	Operation: 0 to 55°C, Storage: -20 TO 85°C, Humidity: up to 95%	
RECOMMEND CABLE	CAT.5 UTP (24 AWG)	
DIMENSIONS mm	69 x 25 x 20.7 + 140mm power cord	
WEIGHT g	36	37



Rev.B

Voltage Drop According to Cable Length (24AWG):

Power	Power Supply Voltage 12 Volts DC								
Range	50M			100M			300M		
Camera Power Consumption	1 PAIR	2 PAIR	3 PAIR	1 PAIR	2 PAIR	3 PAIR	1 PAIR	2 PAIR	3 PAIR
50mA	11.4	11.7	11.8	10.8	11.3	11.6	9.6	10.6	11
100mA	11	11.5	11.5	9.7	10.8	11.2		9.2	10.1
150mA	10.5	11.2	11.3	9	10.4	10.9			9.3
200mA		11	11.2		9.9	10.6			
250mA		10.7	11		9.4	10.2			
300mA		10.5	10.8			9.9			
350mA		10.3	10.6			9.7			
400mA		10	10.4			9.4			
450mA		9.6	10.2						
500mA		9.2	9.8						

Power	Power Supply Voltage 15 Volts DC											
Range	50M			100M			300M			600M		
Camera Power Consumption	1 PAIR	2 PAIR	3 PAIR	1 PAIR	2 PAIR	3 PAIR	1 PAIR	2 PAIR	3 PAIR	1 PAIR	2 PAIR	3 PAIR
50mA	14.4	14.7	14.8	13.8	14.3	14.6	11.9	13.6	14	X	12	12.9
100mA	14	14.5	14.5	12.7	13.8	14.2	X	12.2	13.1	X	X	11.1
150mA	13.5	14.2	14.3	12	13.4	13.9	X	11.1	12.3	X	X	X
200mA	12.6	14	14.2	11.3	12.9	13.6	X	X	11.5	X	X	X
250mA	12.1	13.7	14	10.3	12.4	13.2	X	X	X	X	X	X
300mA	11.8	13.5	13.8	X	12	12.9	X	X	X	X	X	X
350mA	11.3	13.3	13.7	X	11.7	12.7	X	X	X	X	X	X
400mA	10.8	13	13.5	X	11.2	12.4	X	X	X	X	X	X
450mA	X	12.7	13.3	X	10.7	12.1	X	X	X	X	X	X
500mA	X	12.4	13.1	X	X	11.6	X	X	X	X	X	X

Power	Power Supply Voltage 24 Volts DC											
Range	50M			100M			300M			600M		
Camera Power Consumption	1 PAIR	2 PAIR	3 PAIR	1 PAIR	2 PAIR	3 PAIR	1 PAIR	2 PAIR	3 PAIR	1 PAIR	2 PAIR	3 PAIR
50mA	23.8	23.8	23.8	23	23.5	23.6	21	22.4	23	18.1	21.2	22.1
100mA	23.6	23.4	23.5	22.4	23.1	23.3	18.7	21.1	22.2	12.9	18.7	20.4
150mA	22.6	23.2	23.3	21.3	22.6	22.9	16.2	20	21.3	X	16.1	18.9
200mA	22.1	22.9	23.1	20.3	22	22.5	13.7	18.1	20.5	X	13.5	17.1
250mA	21.6	22.6	22.9	19.4	21.6	22.2	10.9	17.4	19.6	X	11.1	15.4
300mA	21.1	22.4	22.7	18.4	21.2	21.9	X	16.1	18.8	X	X	13.8
350mA	20.6	22.1	22.5	17.5	20.6	21.6	X	15	18.1	X	X	12.2
400mA	20.2	21.8	22.3	16.5	20.1	21.2	X	13.9	17.3	X	X	10.7
450mA	19.7	21.6	22.1	15.5	19.6	20.9	X	12.7	16.6	X	X	X
500mA	19.1	21.3	21.9	14.5	19.1	20.5	X	11.3	15.4	X	X	X

AC24V Power Distance Chart over UTP cable:

CAT5 Cable (24AWG)	Range
2 PAIRS/AC24V	
100 mA	300 Meters
300mA	100 Meters
1 Amp	30 Meters