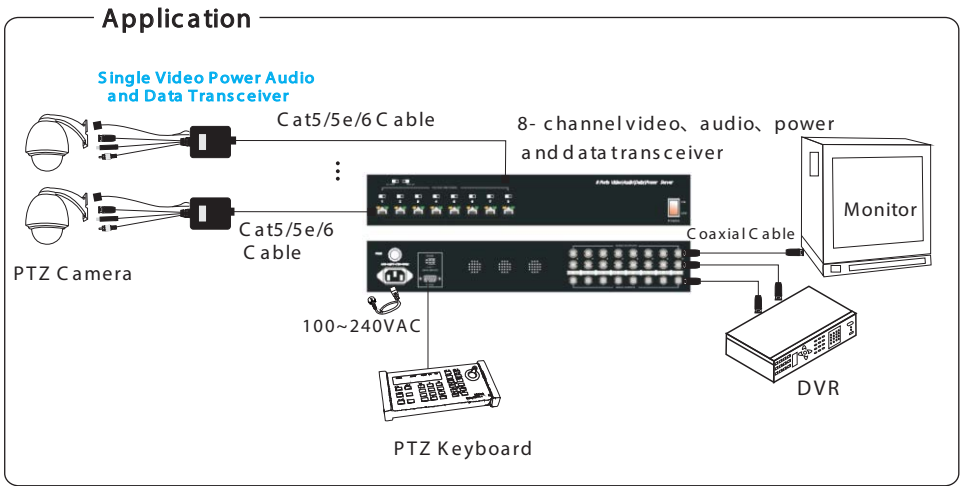


Single Video Power Audio and Data Transceiver

The product is a video balun that can transfer video, power, audio and control signal in the same time; The device adopt Cat5/5e/6 cable as transmission medium, can transfer video, audio, control signal and DC/AC power at the same time. The transmission distance can reach 300m max. It support color or B/W PAL/NTSC/SECAM and provide 24VAC or 12VDC power for the camera, simplify the project wiring. In practical project, it can be used with 4/8/16- channel video, audio, power and data transceiver series product. It features long transmission distance, clear image and strong anti- interference, being widely used in security system etc.

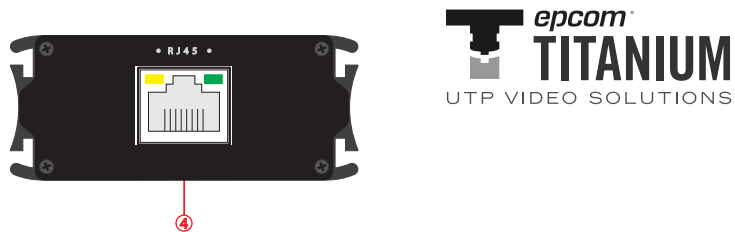


Feature

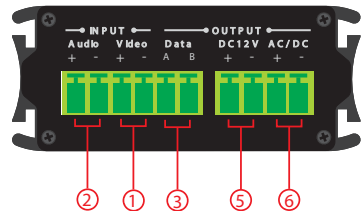
- Power Supply: Providing AC 24V or DC 12V for camera, simplifying the project wiring;
- Function: Transferring video, audio, control signal, 24VAC/12VDC power with one cable
- Distance: 0~100m (24VAC output), 0~300m (12VDC output);
- Protection: Strong lightning protection, ESD and anti-interference ability;
- Outlook: Delicate design, support MIT frame, easy for installation;
- Installation: adopt RJ45 standard connection installation;

Board Diagram

Front



Back



Port No.	Item	Description
①	Video Port	Video Signal Input.
②	Audio Port	Audio Signal Input
③	RS485 P Port	RS485 Signal Input (Left as A, Right as B).
④	RJ45 Port	RJ45 for standard plug, please check the "Plug production". RJ45 Green LED for power: On, normal; Off, fail; RJ45 Orange LED for overload protection light;
⑤	DC Power Port	12VDC Power Output (Left as positive, right as negative).
⑥	AC Power Port	24VDC Power Output;

Installation

Please check the device and accessories before installation, if it has missing, please contact your supplier.

- 1- CH Video, Audio, Power, Data Transceiver 1 PC
- User Manual 1 PC

Please install as following steps:

1. Turn off signal source and device to be display, install with charge will damage the device;
2. Check whether related cable is used by other device;
3. Connect device BNC port, power port, audio port and data port to related port in cameras;
4. connect one side of cable with RJ45 to RJ45 port of single channel video audio power and data transmitter;
5. Connect one side side of cable with RJ45 to RJ45 port of 4-CH(8-CH or 16-CH) Video, Audio, Power, Data Transceiver Hub;
6. Use coaxial cable with BNC connect input terminal connect to BNC port of the receive product output terminal;
7. Connect receive device audio BNC output port to audio output device;
8. Connect RS232 or RS485 port to control keyboard or DVR, in order to control remote camera or holder;
9. Check whether installation is correct and device is normal, make sure all connection is reliable, connect power line, put on power switch, charge system;
10. Check image and other device if work normally.

Specification

Item		Description
Function	Transmission Channel	1 Set (Video, Audio, Data, AC/DC Power)
	Distance	0~100m (24VAC output), 0~300m (12VDC output)
Power	Power Category	24VAC and 12VDC
	Total Power	AC: 28V1A / DC: 36V1A
	Stable Power's Max	DC 12V1A
	Stable Power's Ripple Wave	<100mV
	Connector	Screw Fix Port
Video Transmission and Property	Compatible System	PAL/NTSC/SECAM video with RJ45 port
	Signal Transmission Width	0~6MHz
	Anti-interference	>60dB
	Video Balun Port	RJ45 Port
Audio Transmission and Property	Connection	Screw Fix Port
	Bandwidth	20~20kHz
	Isolated Compression	>500V
Control Signal Transmission and Property	Port	Screw Fix Port
	Signal Category	RS485
	Transmission Rate	<500Kbps
Protection	Port Protection	2KVP: IEC61000-4-5
	ESD	1a Contact Discharge Level 3 1b Air Discharge Level 3 Per: IEC61000-4-2
Environment	Working Temperature	0~55℃
	Storage Temperature	-20~70℃
	Humidity (Non Condense)	0~90%
Property	Size	81.5mm×60mm×25mm
	Shell	Aluminum
	Color	Black
	N.W.	145g
Stability	MTBF	>20000hrs

Specification changed will not be noticed

Problem Examination

Follow the following solves:

- Make sure whether device is install according to installation manual;
- If choose RJ-45, make sure both ends of UTP cable are same (both 568A or both 568B);
- Max transmission distance is depends on electric environment, do not exceed it;
- When no signals, check whether connection is well, wire is normal and whether power it;
- Use a good the product to instead the bad to check whether the device is damaged;
- Please contact your vendor if trouble still exists.

RJ45 Making Method

Instruments to be used: wire crimper, network tester. Wire sequence of RJ45 plug should conform with EIA/TIA568A or 568B;

1. Shuck off the insulating layer about 2cm, making the 4 pairs UTP cable bare out;
2. Depart the 4 pairs UTP cable and straighten them;
3. Line up the 8 pieces of cables per EIA/TIA 568A or 568B.
4. Brunt cut the cables to leave 1.5cm bare wire.
5. Plug 8 cables into RJ45 plug, makes ure each cable is in each pin.
6. Then use wire crimper to crimp it.
7. Repeat above 5 steps to make the another end;
8. Using network tester to test the cable whether can work normally.

Pin	Color
1	White/Green
2	Green
3	White/Orange
4	Blue
5	White/Blue
6	Orange
7	White/Orange
8	Brown



EIA/TIA 568A

Pin	Color
1	White/Orange
2	Orange
3	White/Green
4	Blue
5	White/Blue
6	Green
7	White/Brown
8	Brown



EIA/TIA 568B



Notice:

- When use RJ45 makes ure if one end is EIA/TIA568A, the other ends should also be EIA/TIA568A;
- When use RJ45 makes ure if one end is EIA/TIA568B, the other ends should also be EIA/TIA568B.