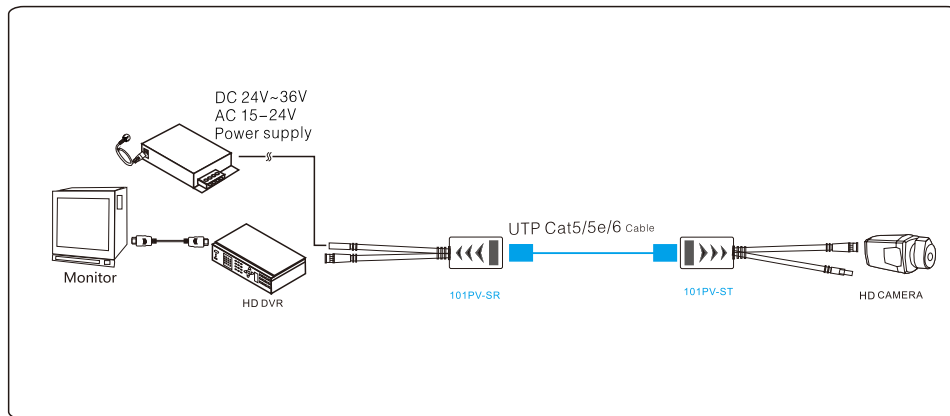


Single Channel HD Video & Power Transceiver

The device is a pair of passive(non-amplified) HD video transceiver combined with a 24-36V DC to 12V DC converter. Built-in 1000V isolated power supply, eliminate interference effectively when centralized power supply. It can supply 1CH stable 12V DC power to camera in 300 meters distance.

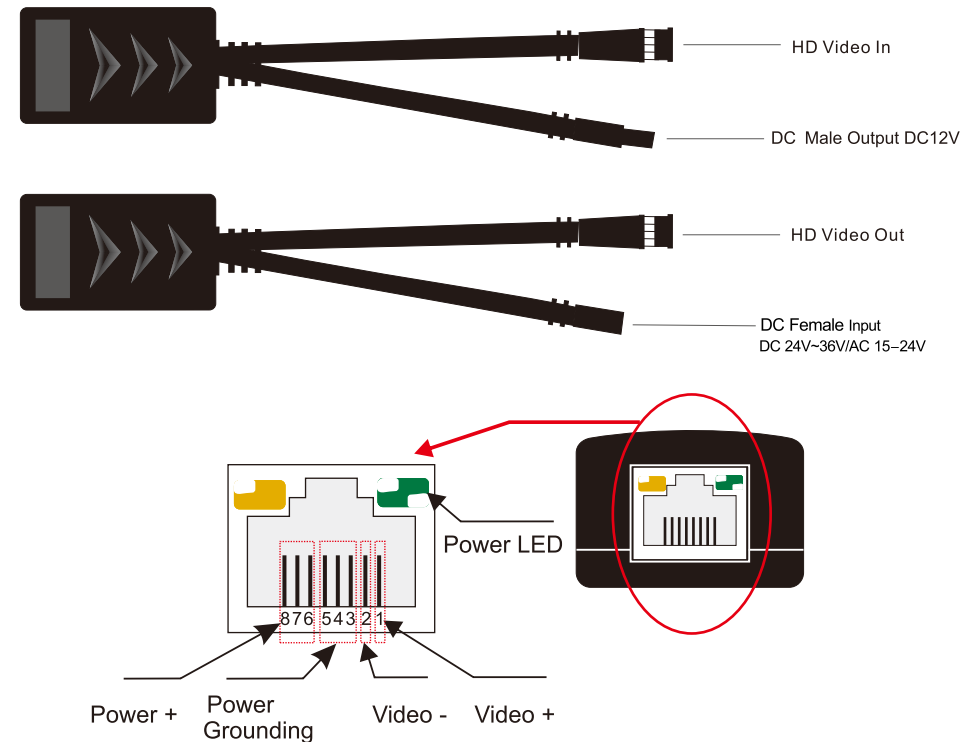
Typical Application



Features

- Input voltage: 24-36V DC; 15-24V AC; Output max 12V DC 10W(Input voltage=36V)
- Supply 1CH stable 12V DC power to camera max to 300M, simplified project wiring
- Input/output isolated power voltage up to 1000V
- HD video transmission distance:
 - HDCVI 720P: 400M; 1080P: 200M;
 - HDTVI 720P/1080P:200M;
 - AHD 720P: 300M
- Power efficiency up to 80%
- RJ-45 plug for easy installation
- Safety: anti-interference, super surge protection, anti-static, transient protection
- Outer design: with extend coaxial cable, easy to install with DVR, RJ45,BNC,DC

Outer shell diagram



Installation Procedure

Please follow the next installation steps:

- (1) Please switch off cameras, monitors & DVR etc. before installation. Or else installation with power may damage devices;
- (2) Make sure UTP cables and coaxial cables to be used are available;
- (3) Connect the video transmitter & 12VDC converter with cameras via BNC-M and DC jack;
- (4) Connect video transmitter & 12VDC converter and power supply & passive receiver via UTP cable;
- (5) Connect the passive receiver with DVR or monitor via coaxial cable;
- (6) Check all connection and power the whole system;
- (7) Check if image is normal and all devices are working normally.



Specification

Item		Specification				
Properties	Transmission signal	1 channel				
	HD Video transmission distance	HDCVI: 720P:400m; 1080P: 200M				
		HDTVI: 720P/1080P: 200M				
		AHD: 720P: 300M;1080P:200M				
	Power transmission distance	Input voltage	DC 24V			DC 36V
		Distance	0-100M	100-200M	200-300M	0-300M
Output (max)		DC 12V 10W	DC 12V 6W	DC 12V 3W	DC 12V 10W	
Video transmission properties and port	Category Type	UTP CAT5/5E/6				
	Coaxial video connector	BNC-M				
	Twisted-pair video port	RJ-45				
	Compatible Format	HDCVI/HDTVI/AHD				
	Resolution	720P/1080P				
	Network bandwidth	0-65 M				
	Anti-interference	>60db				
Protection	ESD	1a contact discharge electricity level 3				
		1b air discharge electricity level 3				
		Per: IEC61000-4-2				
	Coaxial cable connector	2KV(common-code) Per: IEC1000-4-5				
	UTP Cable Connector	2KV(different-code), 4KV(common-code), Per: IEC1000-4-5				
Impedance	BNC male	75 ohms				
	UTP cable	100 ohms				
Physical Properties	Dimension (L*W*H)					
	Shell	ABS				
	Color	Black				
	N. W.					
Stability	MTBF	>10000H				
Environmental	Operating Temperature	-10-55℃				
	Storage Temperature	-20-70℃				
	Humidity	0-95% (non-condensing)				

Specifications subject to change without notice.

Troubleshooting

Please follow these steps if any trouble in installation:

- Check if it's according to the manual;
- Check if all connection is right, and if RJ45 does conform with IA/TIA568A or 568B;
- Make sure the cables are quality and the real distance not exceeds the allowed transmission distance;
- Check if connection is right and all devices are powered once there is no image;
- Replace the device at question by a normal working device;
- Please contact your vendor if trouble still exists.

How to make RJ45 plug

Instruments to be used: wire crimper, network tester.

Wire sequence of RJ45 plug should conform with EIA/TIA568A or 568B.

1. Shuck off about 2cm long the insulating layer, and bar the 4 pairs UTP cable.
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, make sure 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 is working.

RJ 45 PIN Diagram

Pin Diagram	
1	video
2	video
3	Power -
4	Power -
5	Power -
6	Power +
7	Power +
8	Power +



EIA/TIA 568A

Pin Diagram	
1	video
2	video
3	Power -
4	Power -
5	Power -
6	Power +
7	Power +
8	Power +



EIA/TIA 568B



Attention:

- Make sure if one end is EIA/TIA568A,the other end should also be EIA/TIA568A.
- Make sure if one end is EIA/TIA568B,the other end should also be EIA/TIA568B.

Package Contents

- Single Channel HD Video & Power Transceiver (1 pair)
- User manual (1 pcs)