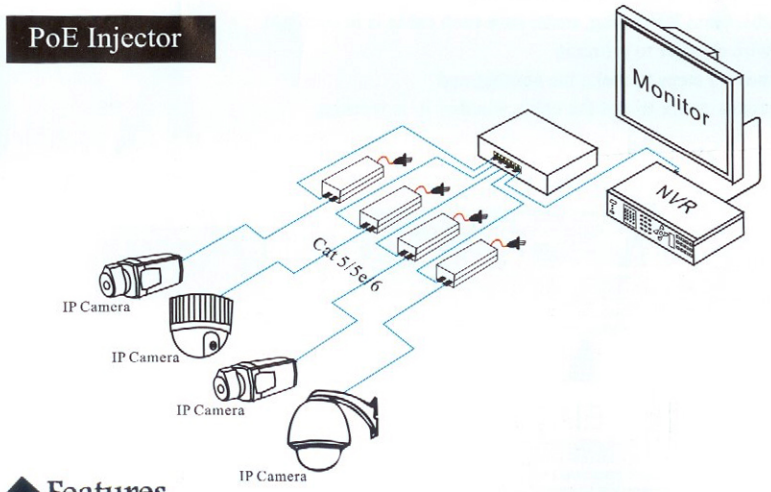
PoE Injector

◆ Description

PoE Injector is also called as Power over Ethernet mid-span devices. Single port PoE injector, that is PoE power supply module, is the most flexible and the hottest products among the power supply devices. There are 2x RJ45 ports for these single-port PoE injectors, one of which is the Ethernet in Port for the uplink upper switches or other upper network devices, and another is PoE Out port used as the port for network data and power output. These single-port PoE injectors supply power with the spare line pair 1/2 (+) , 3/6 (-) method or the data line 1/2 (+) , 3/6 (-) pair method.

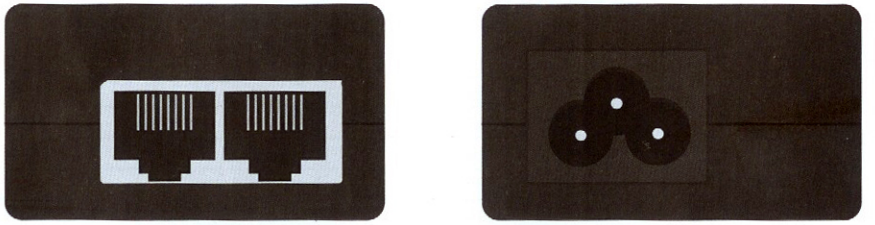
These single-port PoE injectors provide a simple, economical, high-performance and intelligent way for Ethernet PoE power supply and data communication. It's ideal choice for those who need the superior quality project because of its simple use, easy to install, superior performance and cost-effective. They can supply power to HD webcam through Cat5 Ethernet cable, in order that make it more flexible for the places difficult to connect to power supply, and provide with more efficient solutions.



◆ Features

- Power：AC100V~AC240V@50/60Hz;
- Power Rate: ≤15.4W;
- Transmission Media: Cat5/5e/6 Cable standard network cable;
- Standard: IEEE802.3af;
- Can supply power with the spare line pair 1/2 (+) , 3/6 (-) method or the data line pair 1/2 (+) , 3/6 (-) method;
- Protection: Wide voltage AC Input. Strong lighting protection, ESD, anti-interference.

◆ Panel Diagram



No.	Board	Description
1	PWR	PER LED on means power supply normal
2	PoE	PoE LED on means PoE signal output
3	P+D/OUT	PoE signal output port
4	Data/IN	Ethernet input port
5	AC/IN 100-240V	AC 100V-240V power port

◆ Installation Step

Please check below device and accessories before installation, if there are missing, please contact with your supplier.

1. POE Injector 1pcs
2. User Manual 1pcs

Please follow the following steps

- Please turn off the system's power before the installation;
- Use a network cable to connect PoE IP camera with PoE OUT port of single port PoE injector;
- Use another network cable to connect Data In of Single Port PoE Injector with Ethernet switch and other devices which dose not support PoE;
- Connect AC power line;
- Make sure all the network devices have power supply and they are working normal.

Specification

	Item	Specifiation
Power	PoE Power Supply	end-span : 1/2、3/6 data line pair(default); mid-span:4/5、7/8 spare line pair (can be customized)
	Power Input Voltage	AC100V~AC240V
	Power Output Voltage	48V
	Power Consumption	≤15.4W
Ethernet Port	Communication Port	1×RJ45
	Transmission Rate	10/100Mbps
	Transmission Medium	Cat5/5e/6 Standard Network Cable
	Transmission Distance	100m (Maximum)
	Protocols and Standards	IEEE 802.3i 10BASET IEEE 802.3u 100BASETX IEEE 802.3x Flow Control IEEE 802.1af DTE Power via MDI IEEE 802.3af
LED Status Indicator	Power	1 (Blue)
	PoE	1 (Red)
Protection	ESD	1a Contact discharge Level 3 1b Air discharge Level Per: IEC61000-4-2
Environmental	Working Temperature	0℃~55℃
	Storage Temperature	-20℃~70℃
	Humidity (non-condensing)	0~90%
Mechanical	Dimension (L×W×H)	115mm×50mm×31mm
	Material	ABS Plastic
	Color	Black
	Weight	350g
Stability	MTBF	>30000h

Notice

1. **Transmission distance is related to the connecting cable . To get better transmitting image, please use standard UTP Cat 5/5e/6 cable.**
2. **Network bandwidth decreases with increasing transmission distance.**
3. **Default PoE power supply is end-span (1/2、3/6 line pair) , can be customized the PoE mid-span (4/5、7/8 line pair) power supply.**

Problem Examination

Please remove the problem according to the following steps

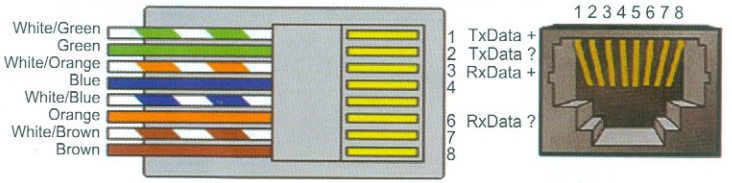
- Please confirm if the device installation is correct;
- Please confirm if the RJ45 reach the standard of EIA/TIA568A OR 568B
- The maximum transmission distance depends on the signal source and cable quality, please do not over the maximum transmission distance;
- Please replace a normal device with a failure one to check if the device is broken;
- If the problem still exist , please contact the factory.

RJ45 Making Method

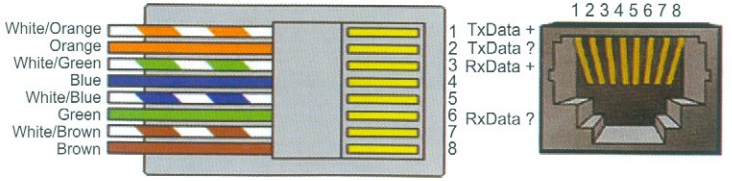
Instruments to be used: wire crimper , network tester , wire sequence of RJ45 plug should conform with EIA/TIA 568A or 568B

- Please remove 2 cm long the insulating layer , and bar the 4 pairs UTP cable
- Separate the 4 pairs UTP cable and straighten them
- Line up the 8 pieces of cables per EIA/TIA 568A or 568B
- Cut off the cables to leave 1.5cm bare wire
- Plug 8 cables into RJ45 plug, make sure each cable is in each pin
- Use the wire crimper to crimp it
- Repeat above 5 steps to make the another end
- Using network tester to test the cable whether it is working

EIA/TIA 568A



EIA/TIA 568B



Notice

- **When choose RJ-45 make sure if one end is EIA/TIA568A, the other end should also be EIA/TIA568A**
- **When choose RJ-45 make sure if one end is EIA/TIA568B, the other end should also be EIA/TIA568**