

# IP/POE CABLING TRANSMISSION

## ITEM NO.: IP03P POE Extender over Two Wire



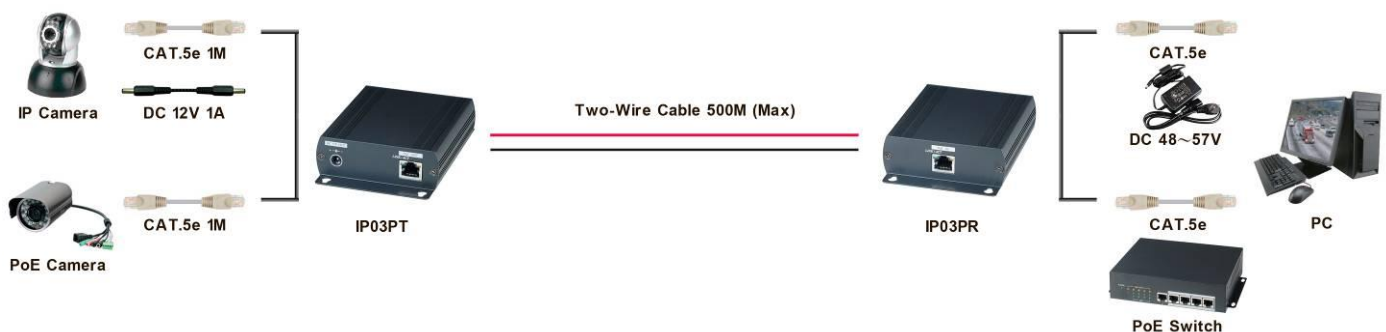
IP03P POE Extender is designed to send and extend Ethernet network with POE can be established using existing cables up to 500M. You can use a two-wire cable (UTP cable, coax cable, telephone line, antenna cable, or bell wire) that is no longer in use to connect a 10/100Mbps POE device, IP telephone, PC...etc without having to lay any new cables. Extended pass through POE to allow a single POE source, such as a POE network switch (IEEE 802.3af/at) to provide power to both TX/RX and the IP/POE camera use. It is perfect solution for extended distance data and power transmission for warehouses, parking lots, campuses, casinos and many more.

### IP03P POE Extender over Two Wire

- Extend Ethernet or any TCP/IP devices up to 1Km.
- Ethernet and POE data over any two wire cable: UTP, Coax, telephone, bell, alarm, power cables.
- Data transfer distance up to 500M, data rate is up to 30Mbps based on distance.
- Support 10/100 Mbps transmission rate.
- Flexible power source either POE Switch or external DC power adapter option. (order separately)
- Provides pass-through POE up to IEEE802.3at 30W.
- Provides DC12V 1Amp power to camera.
- Support high power POE to PTZ cameras at long distances.
- Connected devices are supplied with up to 7W via POE.
- IP03P Power Source Option Model:
  - DC48V 40W power adapter: SWP480830
  - DC56V 70W power adapter: SWP551260
  - POE Injector/POE Switch: High Power POE Injector/ POE Switch: IP06I, IP06H

### Installation View:

1. Connect IP03PT, IP03PR with any two wire cable at both ends before powering.
2. Power input source could use POE Injector/Switch either optional DC 48V, DC56 power adapter to IP03PR unit and camera use.



## Different Two Wire Cables Distance Chart for Reference:

Please note the cable quality, length and diameter of two wires used all have an influence on the transfer of data and the POE output.

CABLE	Distance	Power Input	Data Rate	PoE Output	DC 12V Output
Coax Cable (RG59U)	500M	PoE 54V	47Mbps	12W	900mA
	500M	DC 55.5V	47Mbps	13W	1000mA
	500M	DC 48V	47Mbps	9W	900mA
	1100M	DC 48V	27Mbps	N/A	N/A
	1300M	PoE 54V DC 55.5V	16Mbps	N/A	N/A
Network Cable (CAT.5e) All 4 pairs send power at same time	500M	PoE 54V	27Mbps	12W	1000mA
	500M	DC 55.5V	27Mbps	16W	1000mA
	500M	DC 48V	27Mbps	12W	800mA
	1000M	PoE 54V DC55.5V DC48V	18Mbps	N/A	N/A
Telephone cable (0.65mm)	200M	PoE 54V	47Mbps	13W	1000mA
	200M	DC 55.5V	47Mbps	18W	1000mA
	200M	DC 48V	47Mbps	12W	1000mA
	400M	PoE 54V	47Mbps	8W	700mA
	400M	DC 55.5V	47Mbps	9W	800mA
	400M	DC 48V	47Mbps	5W	500mA

※ Recommend external power adapter must use DC 48~57V 30W.

## LED Indication :

LED Indication	Status	Function
Power(Green)	ON	Power ON/OFF
Link (Yellow)	Slow Flash	Under Linking
	ON	Linking, but without data transmission
	Quick Flash	Linking and Data transmission
RJ45 (Green)	ON	10/100 Mbps connection
	Flash	Data Transmission.

## Recommend cable :

RG59/6U COAX cable, CAT5e/6/7 UTP cable, telephone cable, power cable.  
Please note the cable quality, length and diameter of two wires used all have an influence on the transfer of data and the POE output.

## Cable Define :

Data/Power +  
Data/Power -

## Caution:

1 . Power output will be varied based on the power source input.

IP03PR power input with two selections, but one time only could use one input

★ Once choose power adapter power input, it cannot accept POE devices input.

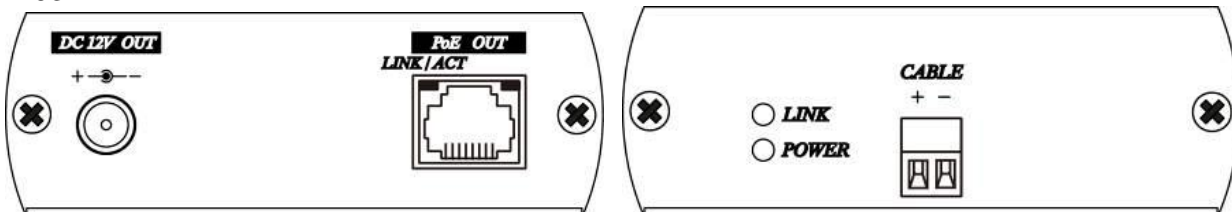
IP03PT power output with two selections, but one time only could use one method.

★ Once choose DC 12V 1A power output, it cannot use POE output power supply.

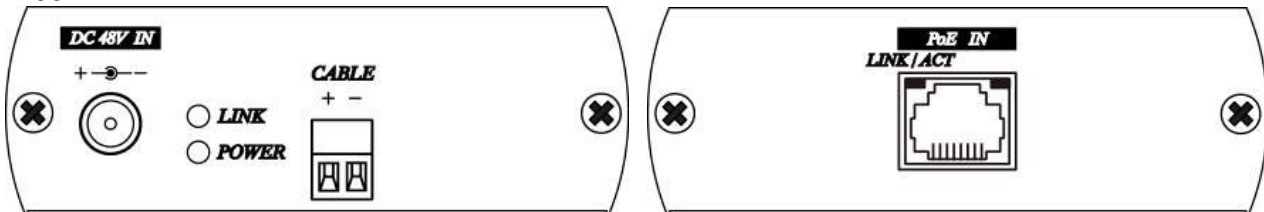
2.The wiring must away from any equipment with electromagnetic wave in order to avoid transmission distance become shorter, i.e.: mobile phone, microwave, radio equipment, fluorescent lamp, power lines.

## Panel View:

IP03PT



IP03PR



## Specifications:

ITEM NO.	IP03PT	IP03PR
Data Input /Output	10/100 Base-TX RJ-45, Auto-negotiation/ auto-MDI/MDI-X	
Power, Data Input /Output	Two port terminal block	
Distance	Ethernet: 1000 Meters, POE: 500 Meters (Max) based on cables	
Power Source	POE injector/Switch 802.3at/af POE or DC 48V/DC56V power adapter (order separately)	
LED Indication	RJ45 (Green) x 1, Power (Green) x 1, Link (Yellow) x1	
Protection	ESD Protection: 30KV, 1KA @ 8/20us	
Data Rate (Max)	Uplink : 47Mbps , Downlink : 46Mbps	Uplink : 46Mbps, Downlink:47Mbps
Power Consumption	4.8W	4.3W
Temperature	Operation: 0 to 55°C, Storage: -20 to 85°C, Humidity: up to 95%	
Dimension mm	88x130x30mm	88x130x30mm
Weight g	270g	270 g

RoHS   

Rev. A