IP/ PoE Extender

User Manual

Model : **IP01P**

Passive POE over Coaxial Extender

Introduction

IP01P is a PoE (Power over Ethernet) extender that can use coaxial cable to send the signal to any TCP/IP 10/100BaseT device with transmission distance up to 300M (Bandwidth at 10Mbps). It is perfect solution to change analog camera to PoE one without replacing existing coaxial cable.

Features

- Sends PoE signal over coaxial cable.
- Signal extension up to 300M over RG6U coaxial cable.
- Bandwidth up to 100Mbps.
- Power from a PoE switch or a PoE injector.

Installation view

Transmission Distance

Coax Cable	Distance	Bandwidth	Power Output	
			PoE IEEE802.3af	PoE IEEE802.3at
RG59	100M	10Mbps	10W	20W
RG59	200M	10Mbps	7W	18W
RG6U	100M	100Mbps	10W	20W
RG6U	200M	10Mbps	7W	18W
RG6U	300M	10Mbps	5W	15W

- Transmission distance and bandwidth may vary by cables and connectors used. We recommend using high-quality 75Ω coaxial RG59, RG6U cable.
- IP01P can support 100Mbps bandwidth only when using RG6U coaxial cables and the distance shorter than 100M. If the distance over 100M, please set the bandwidth to 10Mbps manually.

Panel View
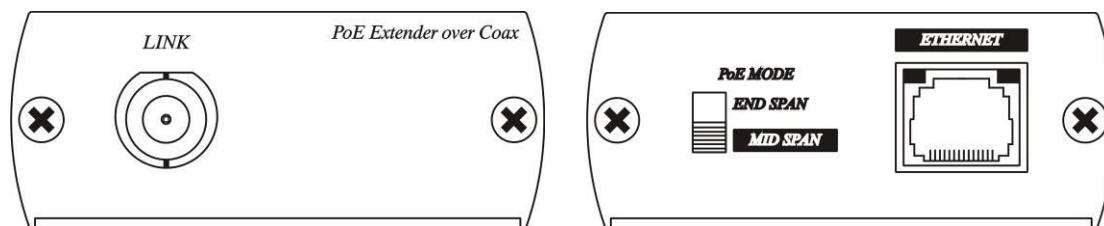
Installation Guide

1. Please check if your PoE switch supports "Auto MDI, or MDI-X" mode before connection.
2. Please find below 4 different cabling methods based on the spec. of your PoE switch.
3. Package included two 20cm crossover cable.

A. PoE camera and PoE switch both end using Straight cable connection, move the dip switch to MID-SPAN, the RJ45 LED will light (If the LED lights, move the dip switch to end span)

| PoE Camera | CAT.5e 1M Straight | IP01P | RG6U 100M | IP01P | CAT.5e 1M Straight | PoE Switch |
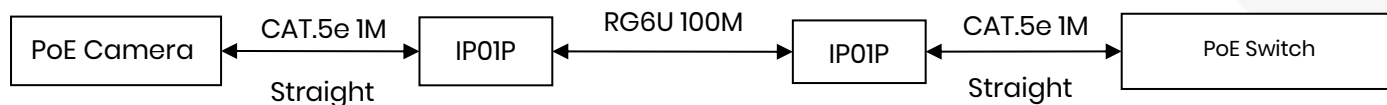
B. If the above connection does not work, PoE Camera end uses crossover cable, PoE switch end uses straight cable.

| PoE Camera | CAT.5e 1M Cross | IP01P | RG6U 100M | IP01P | CAT.5e 1M Straight | PoE Switch Support Auto MDI, MDI-X |

C. If the above connection does not work, PoE Camera end uses straight cable, PoE Switch end uses crossover cable.

| PoE Camera | CAT.5e 1M Straight | IP01P | | IP01P | CAT.5e 1M Cross | PoE Switch Not support Auto MDI, MDI-X |
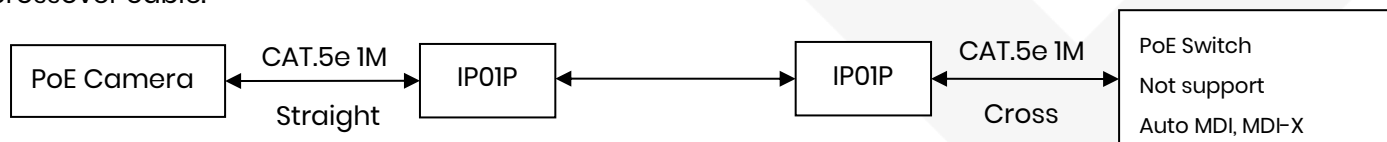
D. If the above connection does not work, PoE camera and PoE switch both ends use crossover cables.

| PoE Camera | CAT.5e 1M Cross | IP01P | | IP01P | CAT.5e 1M Cross | PoE Switch Support Auto MDI, MDI-X but undetectable |

PoE Mode

Connection Method	PIN
End span	Pin1 / 2 and 3/ 6 to send Power.
Mid span	Pin 4 / 5 and 7/ 8 to send power (Recommended).

RJ45 Pin Define

No.	Pin Color	Pin Define
1	Orange-white	TX +
2	Orange	TX -
3	Green-white	RX +
4	Blue	PoE +
5	Blue-white	PoE -
6	Green	RX -
7	Brown-white	PoE -
8	Brown	PoE -
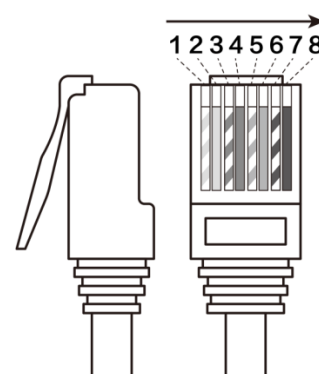
Caution

1. IP01P only works with PoE devices. Please make sure the PoE mode before connecting the power.
2. When switching MID-SPAN and END-SPAN mode, please unplug the power to avoid any damage.
3. RG59 coaxial cables can only support up to 10Mbps bandwidth.
4. The distance of Ethernet cables between IP01P and PoE equipment must less than 3 meters.
5. If the coaxial distance over 100M, please switch the bandwidth to 10Mbps manually.

What's in the Package

No.	Item	Qty
1	IP01P	x 2
2	Crossover cable 20cm	x 2
3	Screws bag（To mount product firmly）	x 2

Specification

ITEM NO.	IP01P
Support	
Compliance	IEEE 802.3af, IEEE802.3at
Transmission Distance	100M at 100Mbps over RG6U coaxial cable 300M at 10Mbps over RG6U coaxial cable
Network Bandwidth	10/ 100Mbps
Ports & Interfaces	
Input	1 x RJ45
Output	1 x BNC
Power	
Power Consumption	1.25W (Max)
Ambient Temperature	
Operation	0 to 55℃
Storage	-20 to 85℃
Humidity	Up to 95%
Physical Characteristics	
Dimensions	67 x 87 x 27mm
Weight	150g

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