

## Model IPOC1KPT

### Features

#### Single Channel Ethernet and Power Transmitter over Single Coaxial Cable

- Support cascade mode; maximum four transmitters can be cascaded
- Ethernet transmission distance reaches max up to 1000 meters
- Power transmission distance reaches max up to 1000 meters with max 12W output power
- Provide power to devices; max up to 12V/1A
- Meet standards of IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX
- Support IEEE802.3af standard; automatically detect and recognize IEEE802.3af standard PD equipments and provide power to PD equipments
- High speed modem technology, the physical bandwidth is up to 100Mbps (bidirectional)
- Multi-stage strong surge and lightning protection design
- Low power consumption, automatic error-correction coding technology
- Easy to install, plug-and-play mode, fast network connection



### Overview

The **IPOC1KPT** is Ethernet and power signal transmitter over single coaxial cable. The **IPOC1KPT** is used with **IPOC1KR**, which is an ideal solution for reconstruction of old projects without any change of existing coaxial cable. You needn't change coax into network cable when you want to change analog cameras into IP cameras. Both of Ethernet and power transmission distance reach max up to 1000meters. The **IPOC1KPT** is able to provide power to POE cameras over network cable and it is able to provide power to NON-POE cameras, too.

With high speed modern technology, the physical bandwidth is up to 100Mbps (bidirectional). The **IPOC1KPT** is built-in multi-stage surge and lightning protection protect video equipment against damaging voltage spikes and provide noise immunity to ensure quality signals without disturbing "hum-bars".

The **IPOC1KPT** is widely applied to the fields such as network expanding system, network security system, network information distribution system, network upgrading & expanding system, railway and urban transportation, metallurgy and mining, field operations, etc.

## Quick Setup Guide

Step1: Begin with all input/output devices turned off with power cables removed

Step 2: Connect



Ethernet  
RJ45

of IPOC1KPT with



Ethernet  
RJ45

cameras over one cat 5e/6 cable

Step 3: Connect



Coaxial

of IPOC1KPT with



Coaxial

POC1KR over one coaxial cable

Step 4: Connect



Ethernet  
RJ45

of IPOC1KR with



Ethernet  
RJ45

switch or NVR over one cat 5e/6 cable

Step 5: Connect 53VDC/1.3A power adaptor into



Input DC 48~56V

of FS-EPOC7001R

Step 6: Make sure above connection is properly finished, then turn on power.

Green indicator is on, which indicates Ethernet signal works

Red indicator is on, which indicates power works



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### Note:

1. Max four transmitters can be cascaded.
2. Ethernet and power signals reach up to 1000 meters when transmitter is used with receiver in pairs.
3. The distance between the farthest transmitter and receiver is not more than 600 meters when the transmitters are cascaded
4. Additional power will be required if power of POE IP camera exceeds 12W within distance of 1000 meters

Technical Specifications

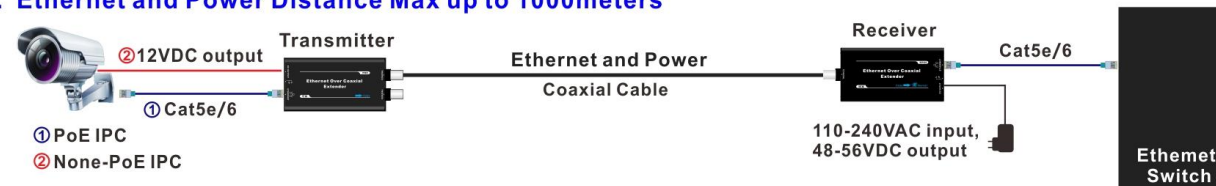
Model		IPOC1KPT
Product Name		Single Channel Ethernet and Power Transmitter over Single Coaxial Cable
Power Supply	Power	Output:12V DC/1A
	No-Load Power	1.5W(max)
RJ45 Interface	Ethernet Interface	RJ45 Interface
	Transmission Distance	100m (max) over cat5e/6
	Standards	IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX, IEEE 802.3af
	Physical speed	100Mbps(bidirectional)
Coaxial Cable Interface	Coaxial Cable Interface	BNC connector
	Coaxial Cable Impedance	75Ohm
	Maximum Distance	1000m(SYV75-5 Cable)
Transmission Distance	Distance	Bandwidth
	300m	100Mbps
	500m	90Mbps
	800m	70Mbps
	1000m	55Mbps
LED Indicators	Green Light	Coaxial cable connecting indicator
	Red Light	Power indicator
Lightning Protection Grade	Network Port	Differential Mode:2KV      Common Mode:4KV Executive Standard:    IEC61000-4-5
	Device	contact discharge: 3 grade    air discharge: 3 grade Executive Standard:    IEC61000-4-2
Mechanical	Dimensions(L*W*H)	103*54*26mm
	Housing	Aluminum
	Body Color	Black
	Weight	145g
Environmental	Operating Temperature	0~55℃
	Storing Temperature	-25℃~85℃
	Relative Humidity	0~95% (non-condensing)

## Applications

- Security Monitoring System
- Multimedia Network Teaching System
- Medical Monitoring Display System
- Industrial Automation Control System
- Banking, securities, financial information display system
- Remote Network Server Monitoring
- Department Store Security
- Casino Security
- Hospitals, Airports and banks
- School Campuses

## Application Diagram

### A. Ethernet and Power Distance Max up to 1000meters



### B. Ethernet and Power Distance Max up to 600meters

