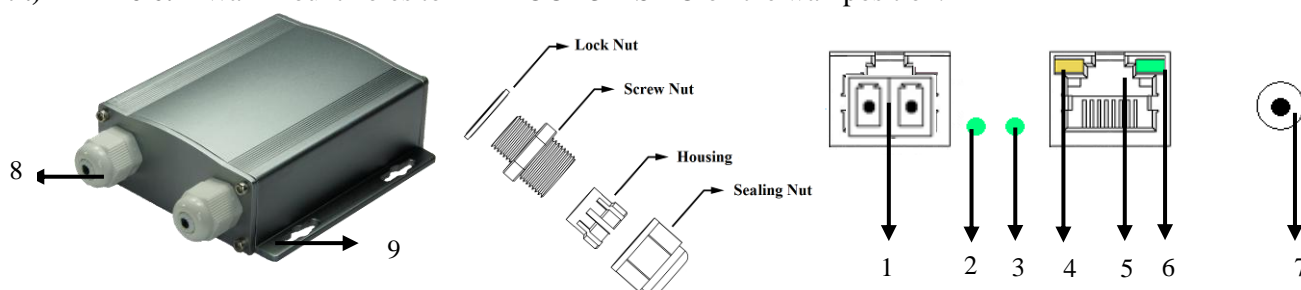


## EPOC-131PST-O Ethernet/PoE Extender over 2-Wire Installation Guide


### ✧ Product Overview:

- 1.) **Data:** Terminal block Connector converter allows 10/100 Base-T Ethernet and PoE power to be transmitted using 2-Wire cable.
- 2.) **PoE:** The LED indicates the PoE power status. On: PoE power is provided; Off: No PoE power.
- 3.) **Link:** The LED indicates the cable link status. The LED will be on after 10 seconds when first connection is success; Off: No connection.
- 4.) **Pwr:** The LED indicates the power status. On: Power on; Off: No power.
- 5.) **Ethernet/PoE:** RJ45 connector, attaches to POE IP Camera or Hub via Cat5, 5e, 6 or 7 patch cables.
- 6.) **Eth:** The LED indicates the communication status. Flash: Communicate with Traffic; Off: No connection.
- 7.) **Power jack:** Plug DC power adapter to for PoE source when PoE Hub cannot provide enough power source.
- 8.) **Cable gland:** Passing through gland plates to attach and secure coaxial cable and RJ45 UTP Cable.
- 9.) **Fix Hole:** 4 Wall Mount holes to fix EPOC-131PST-O on the wall position.




### ✧ Packing Check list:

Carefully unpack and check the package box if the following items are included:

- EPOC-131PST-O x 1 ea
- Cable gland x 2 ea 
- Menu x 1 pc

### ✧ Installation Steps:

#### IP camera end

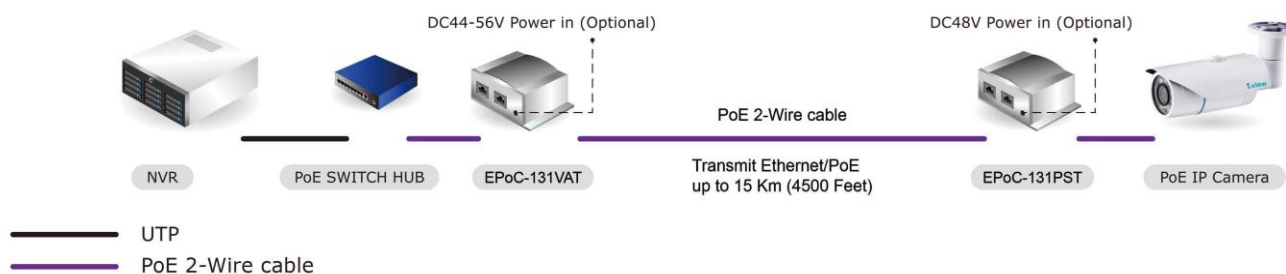
1. Loosen the sealing nut of cable gland and pass through UTP cable into cable gland.
2. Make the RJ45 connector with the UTP cable.
3. Connect the IP camera RJ45 connector to the 10/100BaseT Ethernet port of EPOC-131PST-O using a standard Cat5/6 cable of maximum 100 m (328 feet) in length. Connect one end of the long 2-Wire cable such as power core, Bell wire to the 2-Pin Terminal block connector of EPOC-131PST-O.
4. Loosen 4 hexagon screws of bottom panel with hexagon wrench.  
 To avoid the waterproof problem, please DO NOT open the TOP PANEL of EPOC-131PST-O.
5. Loosen the lock nut of cable gland, then fix cable gland with bottom panel.
6. Push the EPOC-131PST-O's board to top side of housing; then tighten the sealing nut with the UTP cable.
7. Tighten bottom panel with housing with 4 hexagon screws.
8. When the IP camera and EPOC-131PST-O cannot receive power through the UTP cable, even through using the POE+ Hub or plug DC56V power adapter for EPOC-131PST-O. Plug the DC48V power adapter into the EPOC-131PST-O will be needed at this end. Please refer to “**Power Distance VS. Cable Impedance**” table.

## ✧ Product Application Diagram

The Ethernet over 2-Wire cable system supports virtually any type of 2-wire cable, including such as power core, Telephone wire. And different wire types can be concatenated together, as needed.

**⚠ To avoid the interference signal, we strongly recommend using the shield cable when there are more 8 pcs EPOC-131VAT install at the same Hub site.**

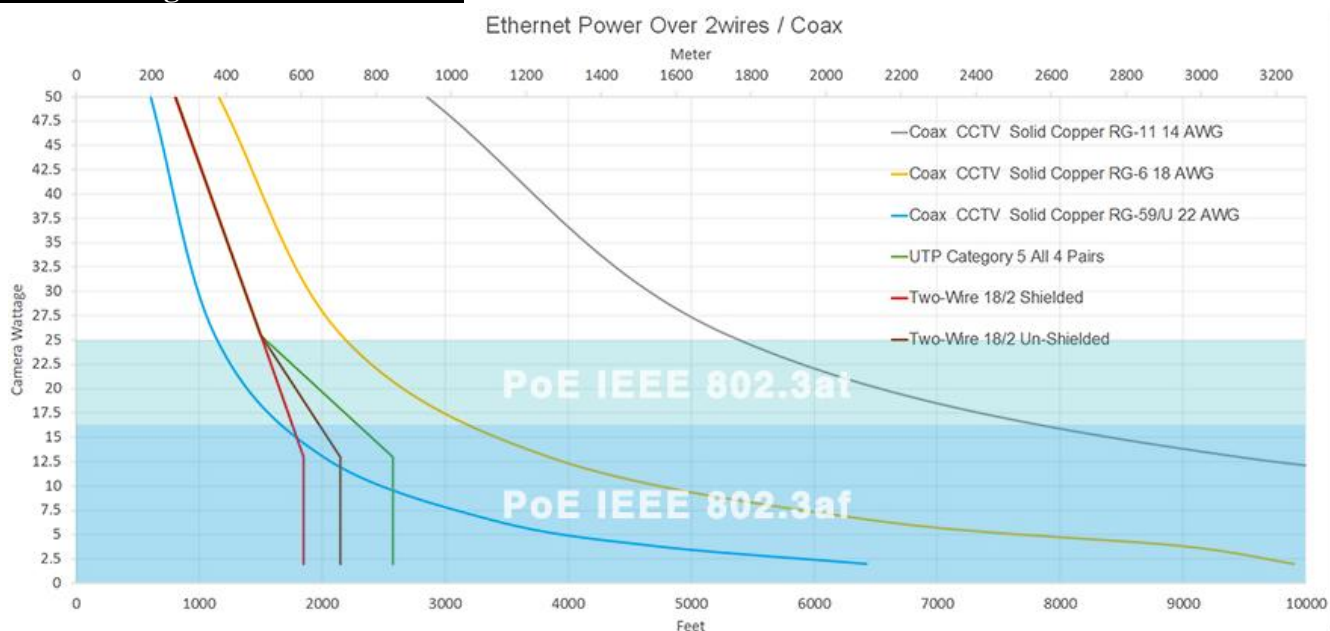
### Point to Point Topology



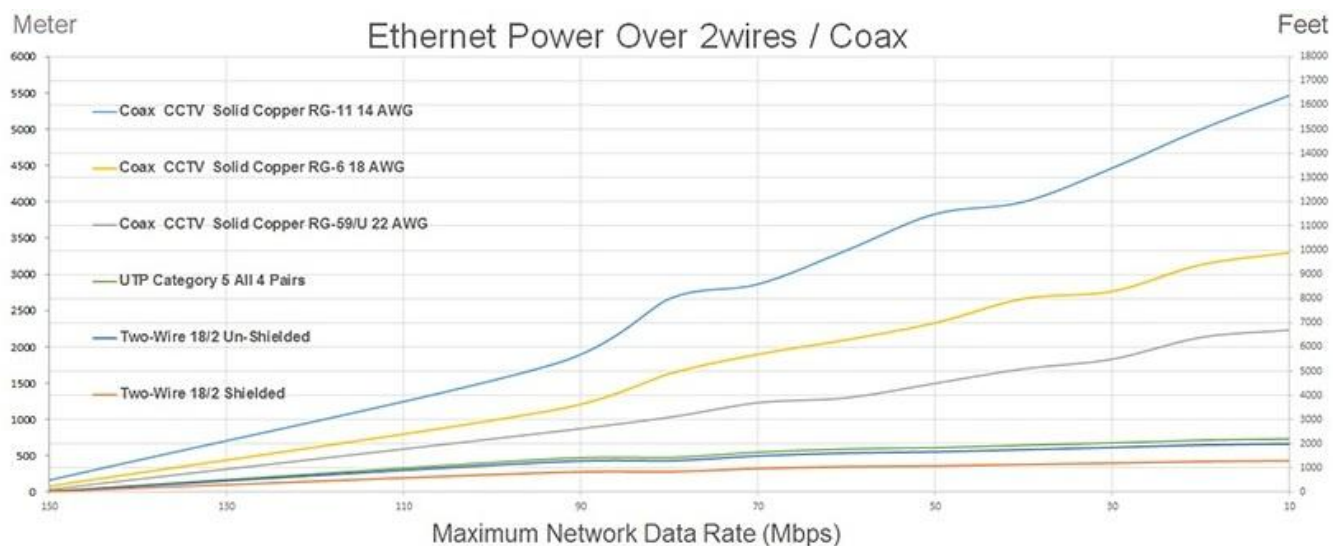
Plug DC48V/56V power adapter to EPOC-131PST when the EPOC-131PST cannot receive power.

- ✍ The IP camera and EPOC-131PST-O cannot receive power through the 2-wire cable. Please do as below:**
1. POE+ Hub or plug DC56V power adapter for EPOC-131 VAT.
  2. Plug the DC48V power adapter into the EPOC-131PST-O will be needed at this end. Please refer to "Power Wattage VS. Cable Distance" table or visit [www.i-view.com.tw](http://www.i-view.com.tw)

### Power Wattage VS. Cable Distance



## Data Rate VS. Cable distance



## LED Function table

Name	Color	Status	Function
<b>Pwr</b>	Yellow	On	Power is on
		Off	Power is off
<b>Eth</b>	Green	Flashing	Communication is OK with Traffic
		Off	No communication
<b>Link</b>	Green	On	Connection is OK; (It take 10 sec. for LED on)
		Off	No connection
<b>PoE</b>	Green	On	PoE is offering
		Off	No PoE offer

## ✧Specification:

ITEM \ MODEL	EPOC-131VAT	EPOC-131PST	EPOC-131PST-O
Ethernet			
Connector	RJ-45	RJ-45	RJ-45
Connectivity	10/100/1000 Base-T auto-negotiation, auto MDI / MDX crossover		
Wire type	Cat5 or better		
Distance	Up to 328 feet (100m)		
Cable Link			
Connector	RJ-45		
Type	Receiver (Hub Site)	Transmitter (Camera Site)	
Wire type	Any 2-Wire cable		
Distance <sup>1</sup>	Up to 600 Meters (1980 feet)		
Topology	Supports Star, Daisy-Chain, or any combination		
Encryption	128-bit AES		
Latency	3 ms		
Bandwidth <sup>1</sup>	Total network bandwidth 150 Mbps; with dynamic bandwidth allocation		
Power			
Power Source	PoE Hub; DC44~56V	PoE or DC48V	PoE or DC48V
Power Output	PoE (RJ-45 via 4 pairs)	25W PoE (RJ45); (50W Option)	
Physical			
Waterproof	None	None	IP 66
Dimensions (mm)	100 x 55 x 34	100 x 55 x 34	128 x 102 x 36
Weight	140g	140g	310g
LEDs			
Status indicators	Cable link Ethernet Power Ethernet link/activity	Cable link Ethernet Power PoE Connection Ethernet link/activity	Cable link Ethernet Power PoE Connection Ethernet link/activity
Environment			
Temperature	Operation: 0°C to 50°C / 14°F to 122°F		
Humidity	20% ~ 85% non-condensing		
Power consumption	≤ 2W		
Transient immunity	20μS x5 3,000A, 6,000V; ESD 20KV, 200pF		

1.Distance and number of devices supported may be lower due to power supply capacity and wire voltage-drop. The bandwidth is dynamically allocated (shared based on traffic), and decreases with wire distance.