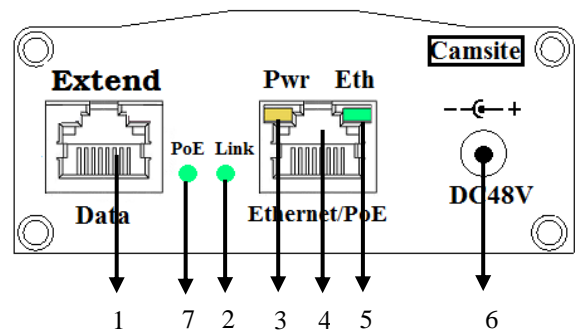
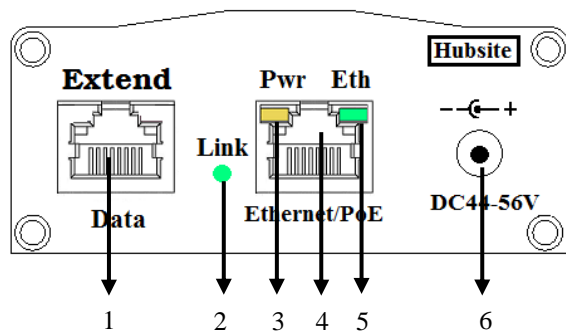


Ethernet/PoE Extender over UTP Cable Installation Guide v1.2

✧ Product Overview:

1. **Extend:** RJ45 Female Connector (No LED) converter allows 10/100 Base-T Ethernet and PoE power to be transmitted using Cat. 5 or better UTP cable with 4 pair wires.
2. **Link:** The LED indicates the cable link status. The LED will be on after 10 seconds when the first connection is successful. **Off:** No connection
3. **Pwr:** The LED indicates the power status. On: Power on; Off: No power.
4. **Ethernet/PoE:** RJ45 connector, attaches to POE IP Camera or Hub via Cat5, 5e, 6 or 7 patch cables.
5. **Eth:** The LED indicates the communication status. Flash: Communicate with Traffic; Off: No connection.
6. **Power jack:** Plug the DC power adapter into for PoE source when PoE Hub cannot provide enough power source.
7. **PoE:** The LED indicates the PoE power status. On: PoE power provides; Off: No PoE power.



✧ Packing Checklist:

Check the package box; the following items include:

EPOC-131VAJ and EOPC-131PSJ x1 set

Menu x 1 Pc

✧ Installation Steps:

IP camera end

1. Connect the IP camera RJ45 connector to the 10/100BaseT Ethernet port of EPOC-131PSJ using a standard Cat5/6 cable of a maximum of 100 m (328 feet) in length.
2. Connect one end of the long UTP cable, such as Cat.5, 5e, 6, or 7 UTP cable, to the RJ45 (No light) connector of EPOC-131PSJ.
3. When the IP camera and EPOC-131PSJ cannot receive power through the UTP cable, even though using the POE+ Hub or plug DC56V power adapter for EPOC-131VAJ. Plug the DC48V power adapter into the EPOC-131PSJ will be needed at this end. Please refer to the “**Power Distance VS. Cable Impedance**” table.

Switch Hub end

1. Connect the PoE switch Hub RJ45 connector to the 10/100BaseT Ethernet port of EPOC-131VAJ using a standard Cat5/6 cable of a maximum of 100 m (328 feet) in length.
2. Connect one end of the long UTP cable, such as Cat.5, 5e, 6, or 7 UTP cable to the RJ45 (No light) of EPOC-131VAJ.

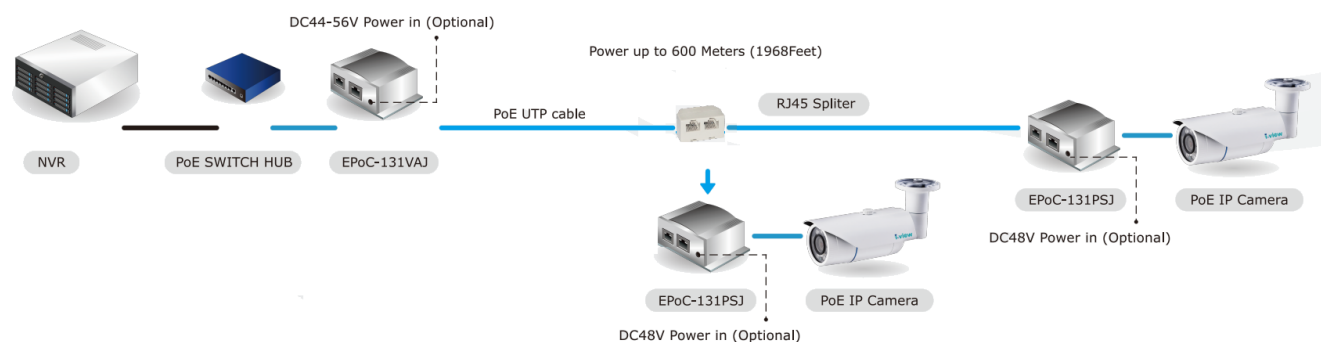
- When the IP camera and EPOC-131PSJ cannot receive power through the Wire cable, please change the POE+ Hub or plug the DC56V power adapter into EPOC-131VAJ.

❖ Product Application Diagram

The Ethernet over UTP Cable system allows the Star topology or Daisy-chained communication. It supports virtually any Cat. UTP wire, including Cat.5, 5e, 6, or 7 UTP cables. And different wire types can be concatenated together as needed.

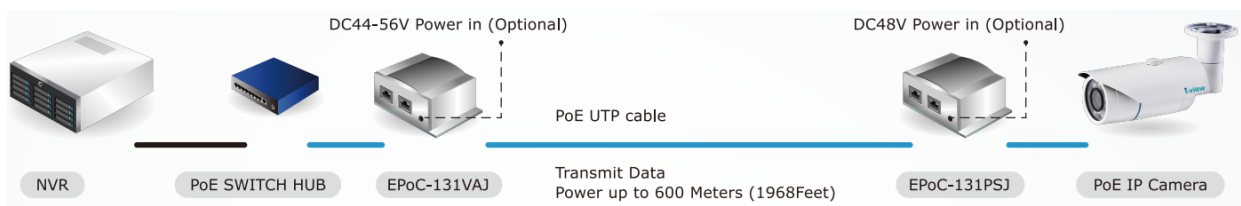
To avoid the interference signal, we strongly recommend using the Cat. STP cable with metal RJ45 Connector for Ethernet/PoE signal transmission when there are more than 16 pcs EPOC-131VAJ installed at the same Hub site.

Daisy Chain



Plug the DC56V power adapter into EPOC-131VAJ or the DC48V to EPOC-131PSJ when the IP Camera cannot

Point to Point Topology



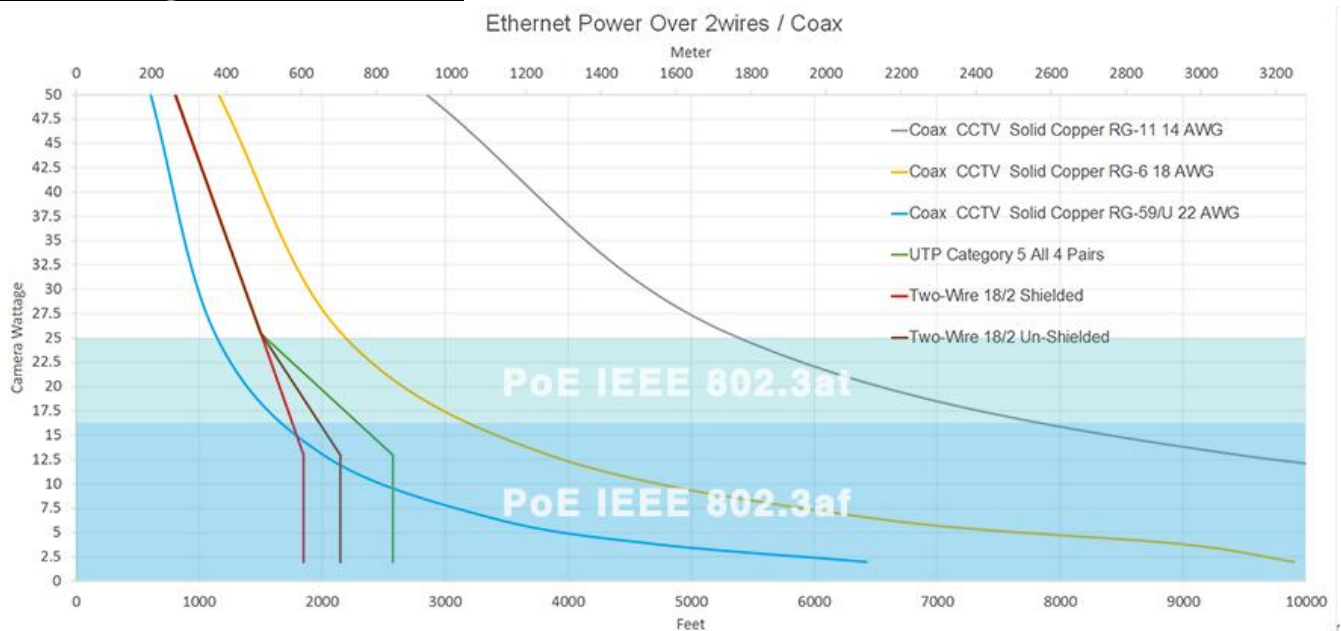
Plug the DC48V power adapter into EPOC-131PSJ when the EPOC-131PSJ cannot receive power.



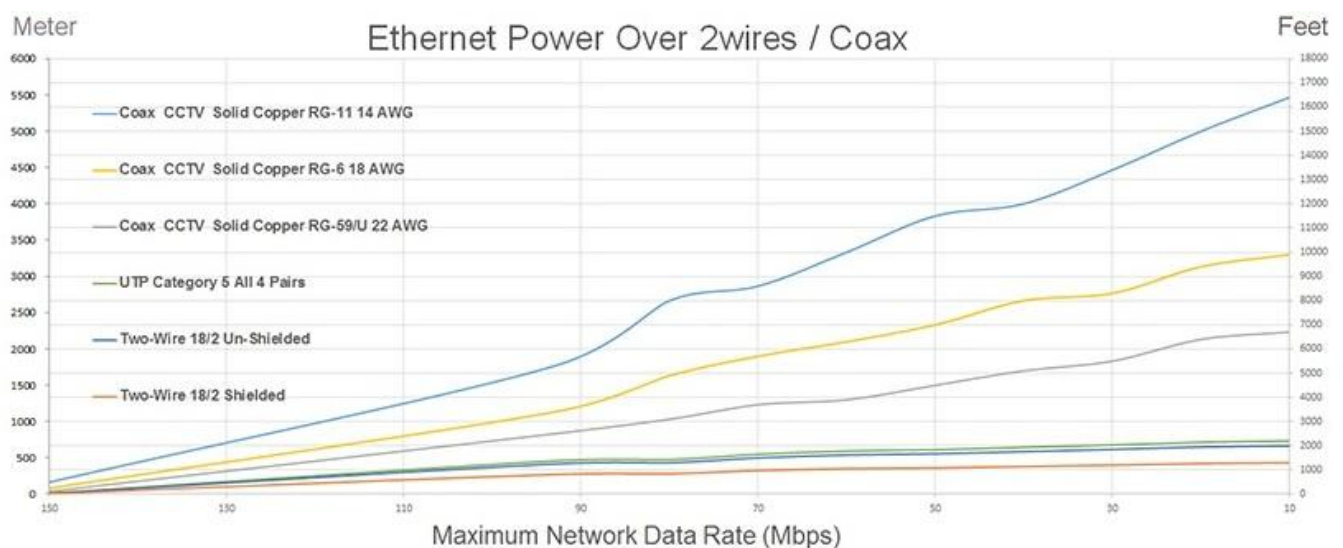
The IP camera and EPOC-131PSJ cannot receive power through the UTP cable. Please do as below:

- POE+ Hub or plug the DC56V power adapter for EPOC-131VAJ.
- Plug the DC48V power adapter into the EPOC-131PSJ will be needed at this end. Please refer to the “Power Wattage VS. Cable Distance” table or visit www.i-view.com.tw

Power Wattage VS. Cable Distance



Data Rate VS. Cable distance



LED Function table

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

✧Specification:

ITEM \ MODEL	EPOC-131VAJ	EPOC-131PSJ	EPOC-131PSJ-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	Cat.5, Cat.5e, Cat.6, Cat.7 UTP Cable		
Distance ¹	Up to 600 Meters (1980 feet)		
Topology	Supports Star, Daisy-Chain, or any combination		
Encryption	128-bit AES		
Latency	3 ms		
Bandwidth ¹	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 via4 pairs cable)	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.