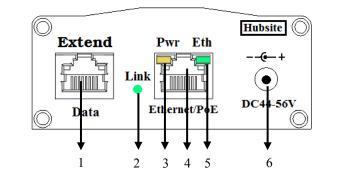
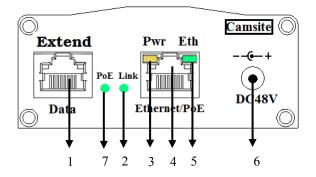
Ethernet/PoE Extender over UTP Cable Installation Guide v1.2

♦ 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 first connection is success; 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 DC power adapter to for PoE source when PoE Hub cannot provide enough power source.
- 7. PoE: The LED indicates the PoE power status. On: PoE power is provided; Off: No PoE power.





♦ Packing Checklist:

Check the package box the following items are included:

EPOC-131VAJ (Or EOPC-131PSJ) * 1 ea;

Menu * 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 maximum 100 m (328 feet) in length.
- 2. Connect one end of the long UTP cable such as Cat.5, 5e, 6, or 7 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 through 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 "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 maximum 100 m (328 feet) in length.
- 2. Connect one end of the long UTP cable such as Cat.5, 5e, 6, or 7 cable to the RJ45 (No light) of EPOC-131VAJ.
- 3. When the IP camera and EPOC-131PSJ cannot receive power through the Wire cable, please change the POE+ Hub or plug DC56V power adapter to EPOC-131VAJ.

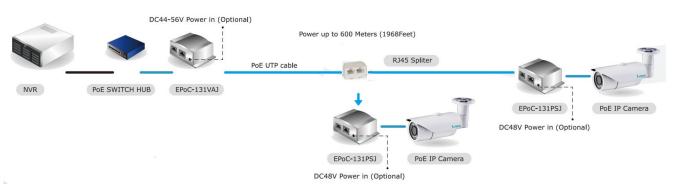
\diamond Product Application Diagram

The Ethernet over UTP Cable system allows the Star topology or Daisy-chained communication. It supports virtually any type of Cat. UTP wire, including such as Cat.5, 5e, 6, or 7 cable. 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

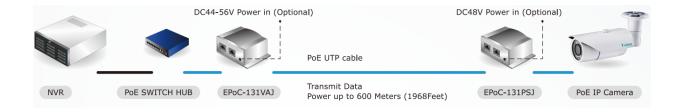
<u>Connector for Ethernet/PoE signal transmission when there are more 16 pcs EPOC-131VAJ install at the</u> <u>same Hub site.</u>

Daisy Chain



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

Point to Point Topology

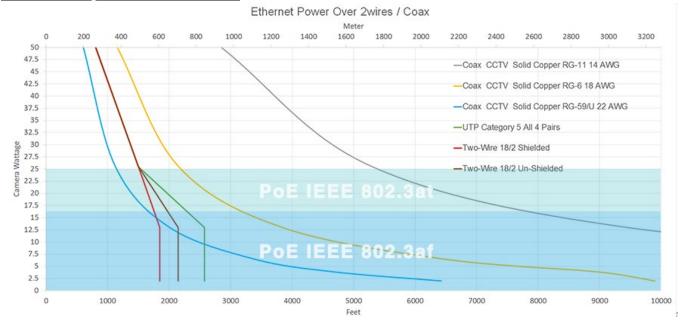


Plug DC48V power adapter to EPOC-131PSJ when the EPOC-131PSJ cannot receive power.

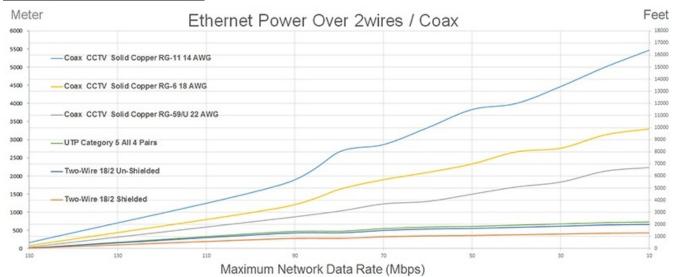
The IP camera and EPOC-131PSJ cannot receive power through the UTP cable. Please do as below:

- 1. <u>POE+ Hub or plug DC56V power adapter for EPOC-131VAJ.</u>
- Plug the DC48V power adapter into the EPOC-131PSJ will be needed at this end. Please refer to "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 take 10 sec. for LED 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					
Туре	Receiver (Hub Site)	(Camera Site)				
Wire type	Cat.5, Cat.5e, Cat.6, Cat.7 UTP Cable					
Distance ¹		Up to 600 Meters (1980 feet)	to 600 Meters (1980 feet)			
Topology	Supports Star, Daisy-Chain, or any combination					
Encryption	128-bit AES					
Latency	3 ms					
Bandwidth ¹	width ¹ Total network bandwidth 150 Mbps; with dynamic bandwidth allocation					
Power						
Power Source	PoE Hub; DC44 \sim 56V	PoE or DC48V	PoE or DC48V			
Power Output	PoE (RJ-45 via4 pairs	PoE (RJ-45 via4 pairs25W PoE (RJ45); (50W Option)				
	cable)					
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						
	Cable link	Cable link	Cable link			
Status indicators	Ethernet Power	Ethernet Power	Ethernet Power			
	Ethernet link/activity	PoE Connection	PoE Connection			
		Ethernet link/activity	Ethernet link/activity			
Environment						
Temperature	Operation: 0°C to 50°C / 14°F to 122°F					
Humidity	$20\% \sim 85\%$ non-condensing					
Power consumption	\leq 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.



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