EPOC-131HP-O Ethernet/PoE Extender over 2-Wire Installation Guide   V1.1
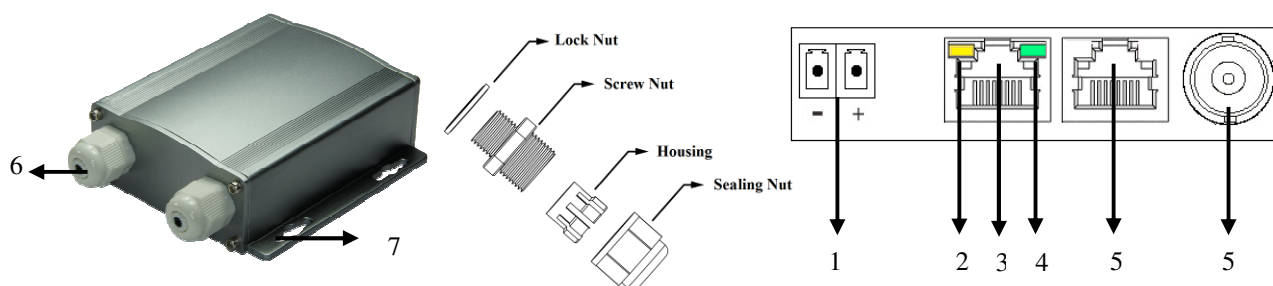
◇ Product Overview:

1.) Terminal block: DC 12V/4A power output.

2.) Yellow LED: The LED indicates the power status.   On: Power on; Off: No power.

3.) Ethernet/PoE: RJ45 connector, attaches to POE IP Camera or Hub via Cat5, 5e, 6 or 7 patch cables.

4.) Green LED: The LED indicates the communication status.   Flash: Communicate with Traffic; Off: No connection.

5.) Data: RJ45 Female (No LED) or BNC connector allows 10/100 Base-T Ethernet and PoE power to be transmitted using Cat. 5 or better UTP cable with 4 pair wires or Coaxial cable.

6.) Cable gland: Passing through gland plates to attach and secure coaxial cable and RJ45 UTP Cable.

7.) Fix Hole: 4 Wall Mount holes to fix EPOC-131HP-O on the wall position.

◇ Packing Check list:

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

➢ EPOC-131HP-O x 1 ea

➢ Hexagon wrench 3.0mm L type x 1 ea

➢ Cable gland x 2 ea

➢ Menu x 1 pc

➢ DC56V/1.28A AC power adapter x 1 ea (Optional)
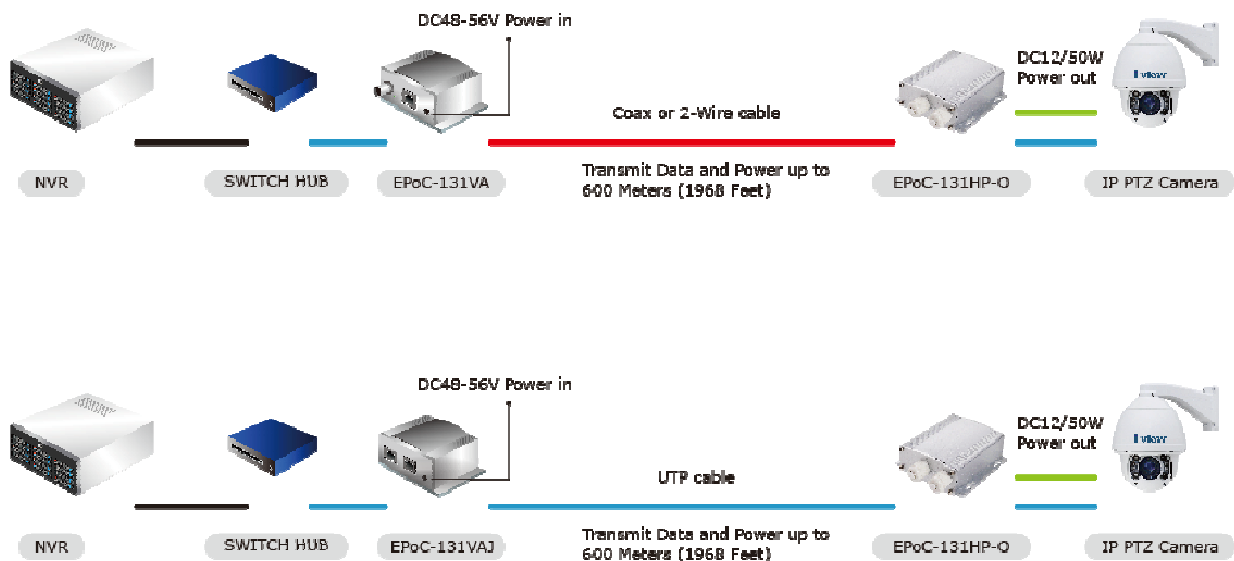
◇ Installation Steps:

IP camera end

1. Loosen the sealing nut of cable gland, then pass through UTP (or coaxial) cable and DC power jumper into cable gland.   Please make sure the polar of DC power output when plug the DC power jumper into terminal block.

2. Make the RJ45 (BNC) connector with the UTP (Coaxial) cable.

3. Connect the IP camera RJ45 connector to the 10/100BaseT Ethernet port of EPOC-131HP-O using a standard Cat5/6 cable of maximum 100 m (328 feet) in length.   Connect one end of the long UTP cable EPOC-131HP-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-131HPJ-O.

5. Loosen the lock nut of cable gland, then fix cable gland with bottom panel.

6. Push the EPOC-131HPJ-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-131HP-O cannot receive power through the UTP cable, even through using plug DC56V power adapter for EPOC-131VAJ.   Please refer to "**Power Distance VS. Cable Impedance**" table.

✧ Product Application Diagram

The Ethernet over UTP (Coaxial) Cable system provides high power for the IP devices such as IP PTZ camera. The system 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. It also supports the coaxial cable.
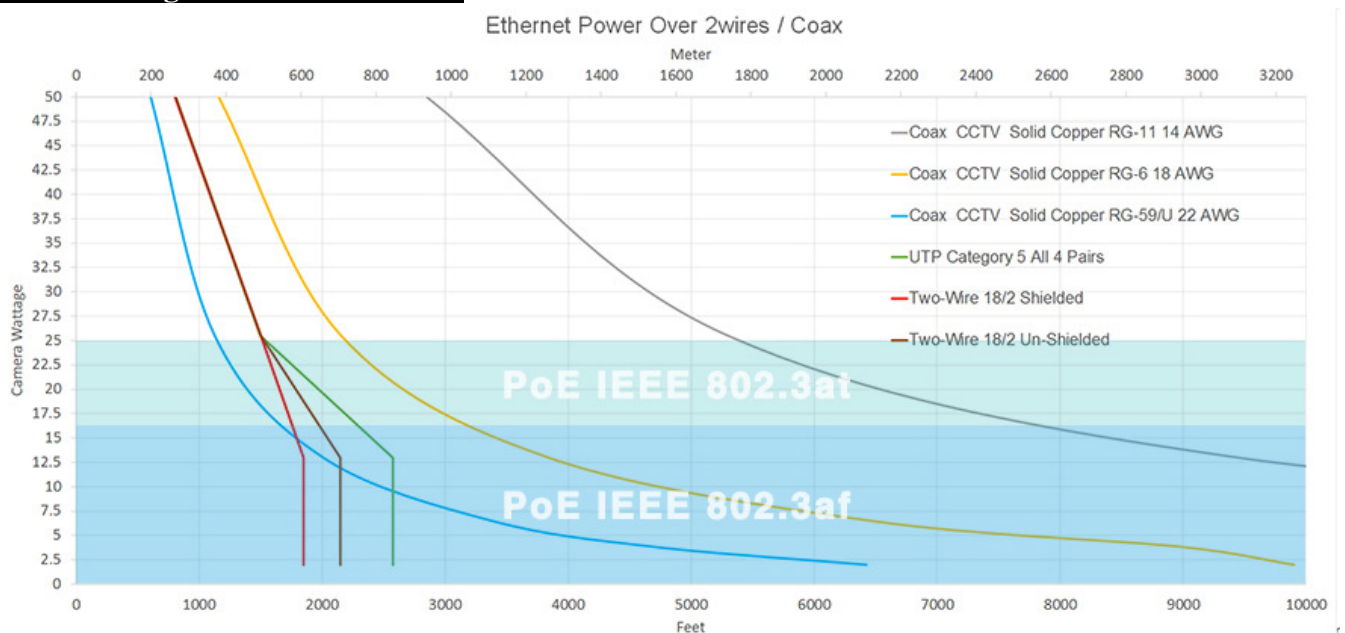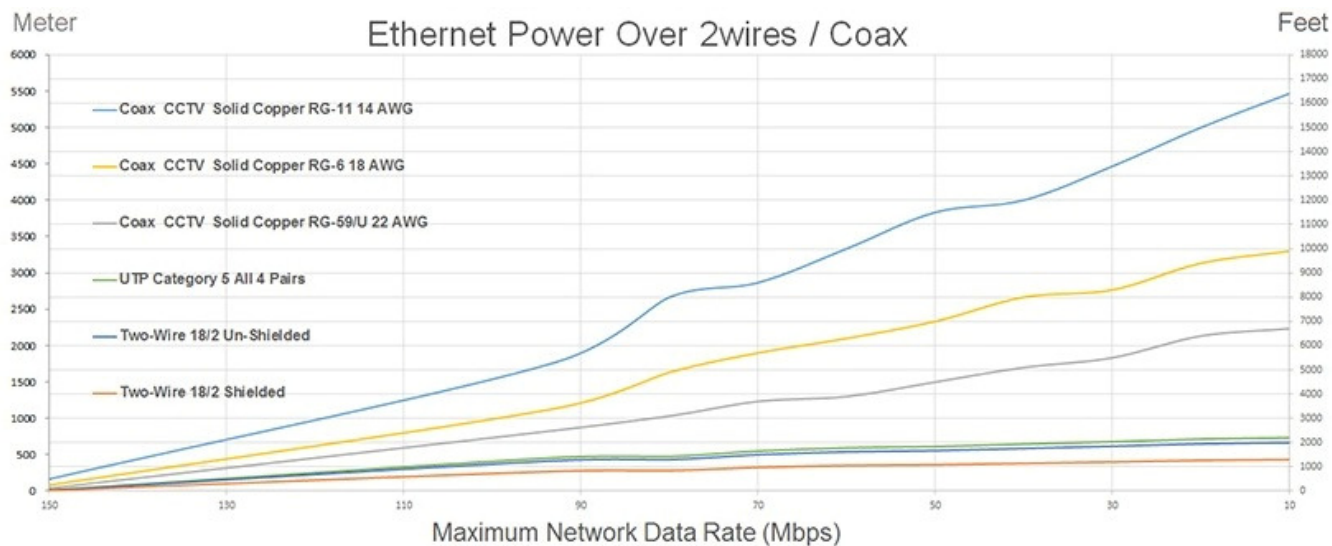
Application Diagram

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

1. POE+ Hub or plug DC56V power adapter for EPOC-131VA or EPOC-131VAJ.
2. Plug the DC48V power adapter into the EPOC-131HP-O 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

Ethernet Power Over 2wires / Coax

— Coax CCTV Solid Copper RG-11 14 AWG
— Coax CCTV Solid Copper RG-6 18 AWG
— Coax CCTV Solid Copper RG-59/U 22 AWG
— UTP Category 5 All 4 Pairs
— Two-Wire 18/2 Shielded
— Two-Wire 18/2 Un-Shielded

PoE IEEE 802.3at

PoE IEEE 802.3af

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-131VA	EPOC-131VAJ	EPOC-131HP-O
Ethernet			
Connector	RJ-45	RJ-45	RJ-45
Connectivity	10/100 Base-T auto-negotiation, auto MDI / MDX crossover		
Wire type	Cat5 or better		
Distance	Up to 328 feet (100m)		
Cable Link			
Connector	BNC	RJ-45	BNC/RJ-45
Type	Receiver (Hub Site)		Transmitter (Camera Site)
Wire type	Coax, single- or multi-pair UTP, 18/2, or STP wire		
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
Power Output	PoE (RJ-45 via 4 pairs UTP cable)	PoE (BNC via Coaxial cable)	50W; DC12V/4A
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	Ethernet Power Ethernet link/activity
Environment			
Temperature	**Operation:** -40℃ to 60℃ / -40℉ to 144℉		
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.

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