



**Features**

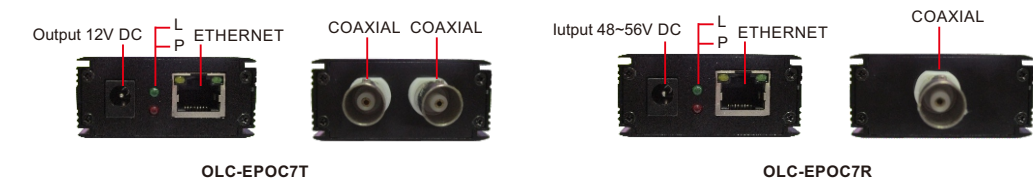
- Single Channel Ethernet and Power Extender over Single Coaxial Cable**
- ▶ Support cascade mode; maximum four transmitters can be cascaded
  - ▶ Ethernet transmission distance max up to 1000 meters
  - ▶ Power transmission distance max up to 1000 meters with max 12W output power
  - ▶ Provide power 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 equipment and provide power to PD equipment
  - ▶ High speed modem technology, the physical bandwidth reaches 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 OLC-EPOC7T is used with OLC-EPOC7R, 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 max up to 1000meters. The OLC-EPOC7T is able to provide power to PoE cameras over network cable and it is able to provide power to NONE-PoE cameras, too.

With high speed modem technology, the physical bandwidth reaches up to 100Mbps (bidirectional). The OLC-EPOC7T & OLC-EPOC7R has a built-in multi-stage surge and lightning protection to protect video equipment against damaging voltage spikes and provide noise immunity to ensure quality signals without disturbing "hum-bars". The OLC-EPOC7T & OLC-EPOC7R 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.

**Interface Detail**

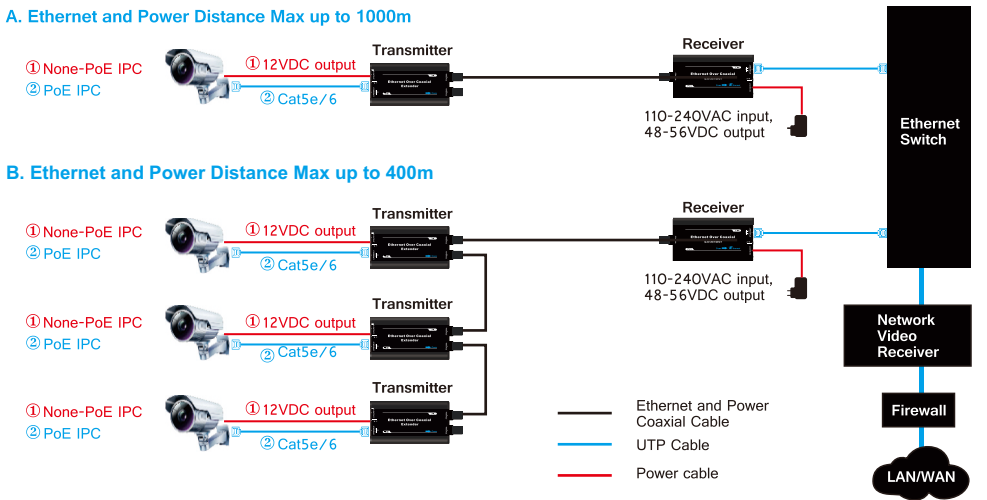


**Quick Setup Guide**

- Package Contents**
- |                       |                   |                               |
|-----------------------|-------------------|-------------------------------|
| 1) OLC-EPOC7T 1PC     | 2) OLC-EPOC7R 1PC | 3) Power Adaptor 53V/1.3A 1PC |
| 4) Brackets 2SETS     | 5) Power Wire 1PC | 6) Screw 8 PCS                |
| 7) DC power cable 1PC |                   |                               |

- Step1: Begin with all input/output devices turned off with power cables removed
- Step 2: Connect of OLC-EPOC7T with of PoE cameras over one cat 5e/6 cable
- Step 3: Connect of OLC-EPOC7T with of OLC-EPOC7R over one coaxial cable
- Step 4: Connect of OLC-EPOC7R with of switch or NVR over one cat 5e/6 cable
- Step 5: Connect 53VDC/1.3A power adaptor into of OLC-EPOC7R
- Step 6: Make sure above connection is properly finished, then turn on the power
- When Green indicator is on, which indicates Ethernet signal works.
- When Red indicator is on, which indicates power works.

**Application Diagram**



- Notes**
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.

**Mechanical/Technical Specifications**

Model		OLC-EPOC7T	OLC-EPOC7R
Product Name		Single Channel Ethernet and Power Extender over Single Coaxial Cable	
Power Supply	Power	Output:12V DC/1A	Input:100-240VAC Output: 53VDC/1.3A
	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	75Ω	
	Maximum Distance	1000m (SYV75-5Cable)	
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)	123*54*24mm	
	Housing	Aluminum	
	Body Color	Black	
	Weight	129g	122g
Environmental	Operating Temperature	0 ~ 55°C	
	Storing Temperature	-25°C ~ 85°C	
	Relative Humidity	0~95% (non-condensing)	

**Trouble shooting**

Remove possible faults with following instructions.

- 1) Check if devices installed in proper way instructed by the supplier.
- 2) Check if coaxial cable well connected and line sequence at sending & receiving unit in correspondence.
- 3) Check if actual transmission distance exceeds Max. distance permitted under this video format.
- 4) Check if OLC-EPOC7T and OLC-EPOC7R with normal power supply.
- 5) Replace the defective one with a proper unit, and check if end devices ( NVR, IP camera etc.) damaged.
- 6) Contact the supplier if faults can't be removed after operations mentioned above.

**After-sales Service**

For breakdown caused by product quality, we guarantee products return within 15 days, exchange within 30 days, free warranty within 1 year. Guarantee period counts from date of purchasing.

- 1) Damages caused by man-made factors, such as application or storage under improper working environment or not in accordance with user manual.
- 2) Disassembling, repairing by user or testing, maintaining by maintenance point not designated by OPTERNET.
- 3) Damage caused by force majeure factors such as accident natural disasters (fires, lightning strike, earthquake) etc.
- 4) Other damages caused by improper operation and application.

**Warning!**

**Important Product Warnings:**

1. Always test for proper operation of the unit before permanently securing to final location.
2. Connect all cables before providing power to the unit.

**Safety Instructions**  
Please be sure to follow these instructions for safe operation of your unit.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Only use attachments/accessories specified by the manufacturer.
10. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped