

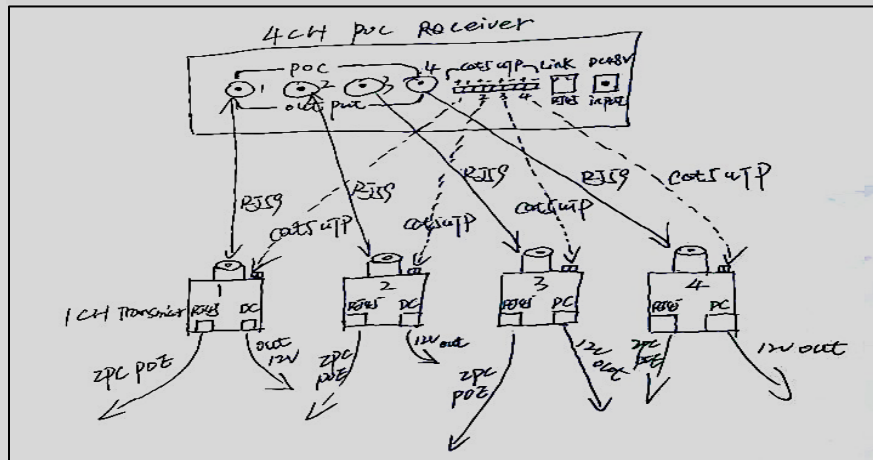


## Ethernet Power Over Coaxial OR Any 2 Copper Wires

Installation Videos@ <https://bkftllc.net/eoc-video-1>

EOC (Ethernet Over Coax, also known as IP over Coax) has been traditionally known as using a Converter to transmit Video, Audio & Data over existing coaxial cables.

*Contractors and I have for (25 years+) discussed New Products That Make Their Installs More Efficient, Lower Labor/Material Cost and Increases Profits and The Ability To Install More Systems Within Organizational Capability. I took these notes during one of those discussions, and so it began:*



This EOC converter designed specially to provide you the contractor the option to upgrade traditional analog video surveillance system to IP surveillance system by utilizing existing coaxial or any 2 copper wires/ cables.

It is applicable with POE/NON-POE IP cameras, POE Wi-Fi AP, VoIP phones, etc.

### Coax Cable Application Feature:

- IP Video & Audio & Data & POE Power transmission over coaxial cable or Any 2 Copper Wires
- Upgrade Analog Balun Installation 4 Cameras On 1 UTP Cable to Digital 4 Cameras
- Max 1000 meters(3000ft) transmission
- Up to 100Mbps bandwidth over 1,000 feet regular coax cable transmission, working with RG59/RG6 cable.
- Plug-and-play, configuration free.
- Compatible to IEEE802.3af/IEEE802.3at POE+ protocol, max 21W POE load capacity in 100m(330ft), or 11W POE load capacity in 300m(1000ft).
- Working with POE IP Cameras, POE Wi-Fi AP, VoIP phone, Non-Poe Device, etc.
- 1\* RJ45 port: 10/100Mbps, MDI/MDIX self-adaption; 1\* BNC RG59 coaxial

## EOC Transmission Performance

- This chart of transmission performance is based on regular RG59 coaxial cable and powered by standard DC48V POE injectors.
- The performance will be better when using RG6 cable or DC53V POE injectors.
- This EOC transmitter and receiver can transmit up to 100Mbps network data and load max 11W POE device in 300 meters (or 1,000ft).
- The network bandwidth will be automatically lowered to 10Mbps over 1,000ft and the max transmission distance is 3,280ft. This bandwidth is still sufficient for single 4K IP camera.

Transmission Distance		Performance
100m(330ft)	Bandwidth	100 Mbps
	Load Capacity	21W
300m(1000ft)	Bandwidth	100 Mbps
	Load Capacity	11W
1000m(3280ft)	Bandwidth	10 Mbps
	Load Capacity	4W

### Note:

**EOC Transmitter must be connected to POE Device (IPC/VoIP), and EOC receiver is connected to POE injectors. The reverse connection will not work.**

**It is used for point-to-point coax cable direct connection only, no BNC repeater/T-connect/splitter in the middle.**

### Specification:

Item	EOC Transmitter/Receiver
Function Port	1*10/100 Mbps Base-TX
	1* BNC
Power Consumption	<2 W
Transmission Bandwidth	RG59 Coaxial cable;
	400m/100Mbps,1000m/10Mbps
POE Protocol	IEEE802.3af (POE), IEEE802.at (POE+)
Network Standard	IEEE802.3(x), IEEE802.3u
Lightning Protection	Common Mode 4KV
	Differential Mode 2KV
Operating Temperature	-30°C to 65 °C (-22°F to 149°F)
Operating Humidity	5%~ 95%
Dimension	81mm*47mm*23mm

**Product Photos/Schematics: POE or NON POE Camera Install**

**Part Number: EOC-OAC \$98.00 per pair**



Assembly Using POE + Injector

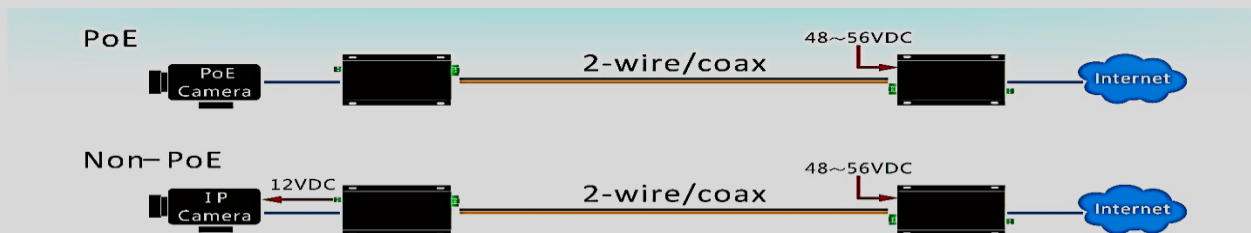
Coax



2 Wires



Assembly Using Separate Power Supply



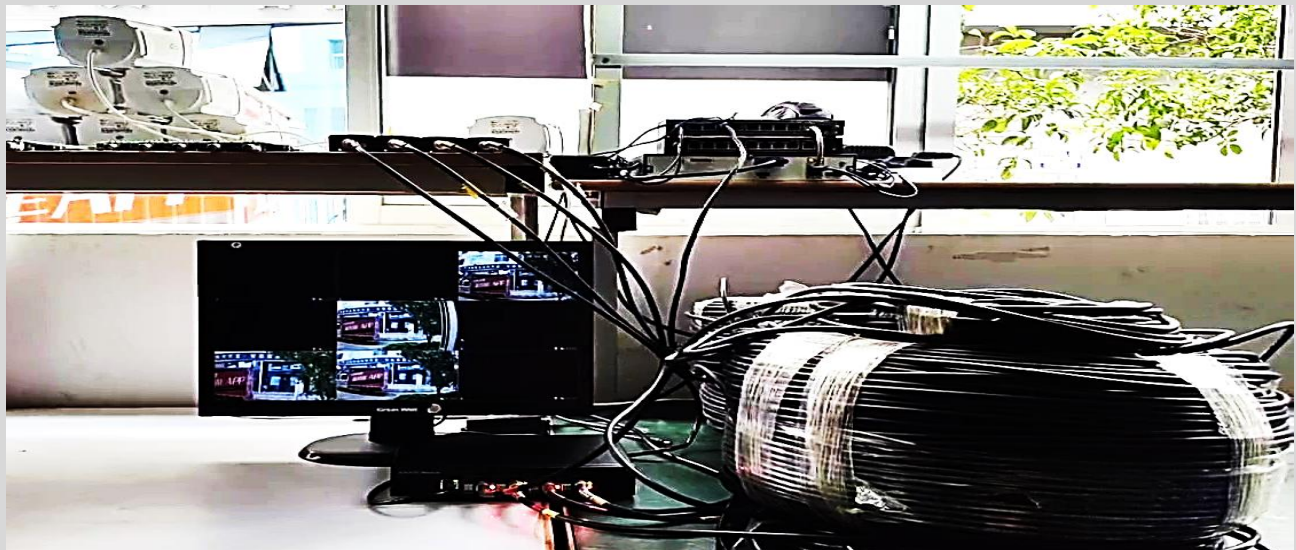
Part Number:EOC-4PKIT \$375.00 per kit



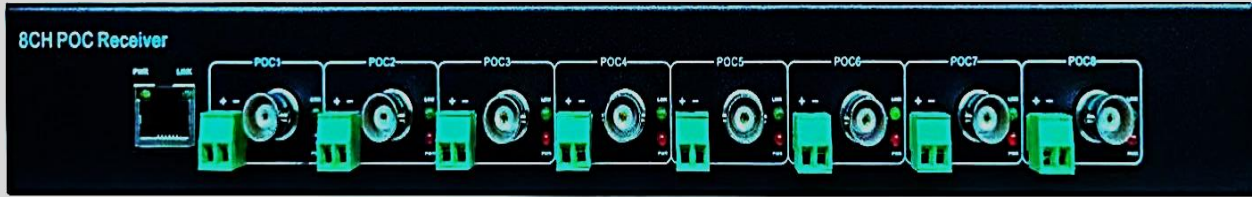
Actual Install 1 UTP CABLE - 4 IP CAMERAS, 4K, 3W, Cameras 400 Meters



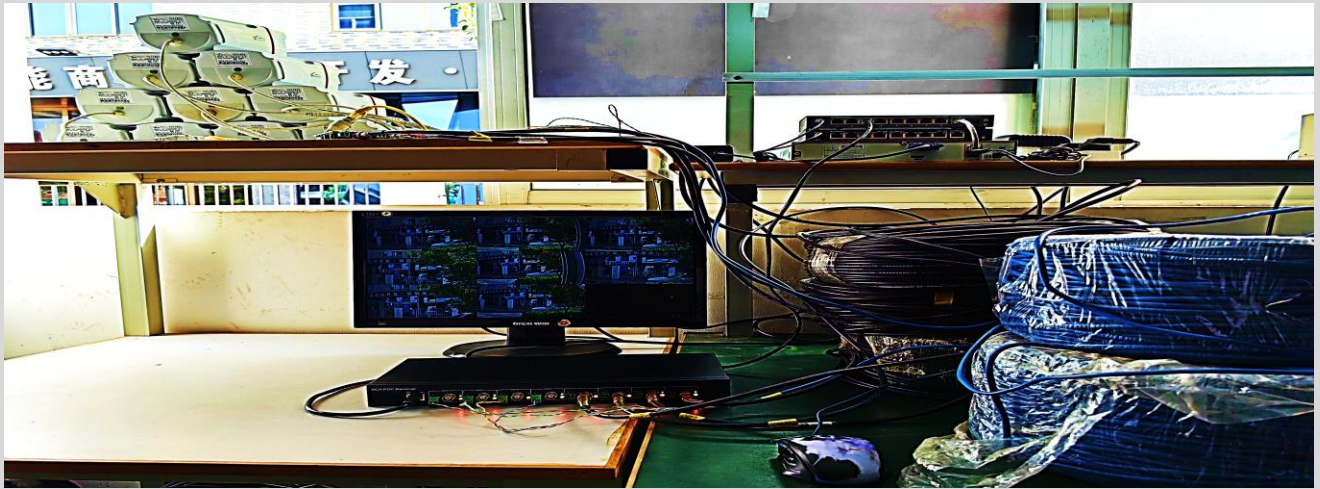
Actual Install 4 COAX CABLES - 4 IP CAMERAS, 4K, 3W Cameras, 400 Meters



**Part Number: EOC-8PKIT \$575.00 per kit**



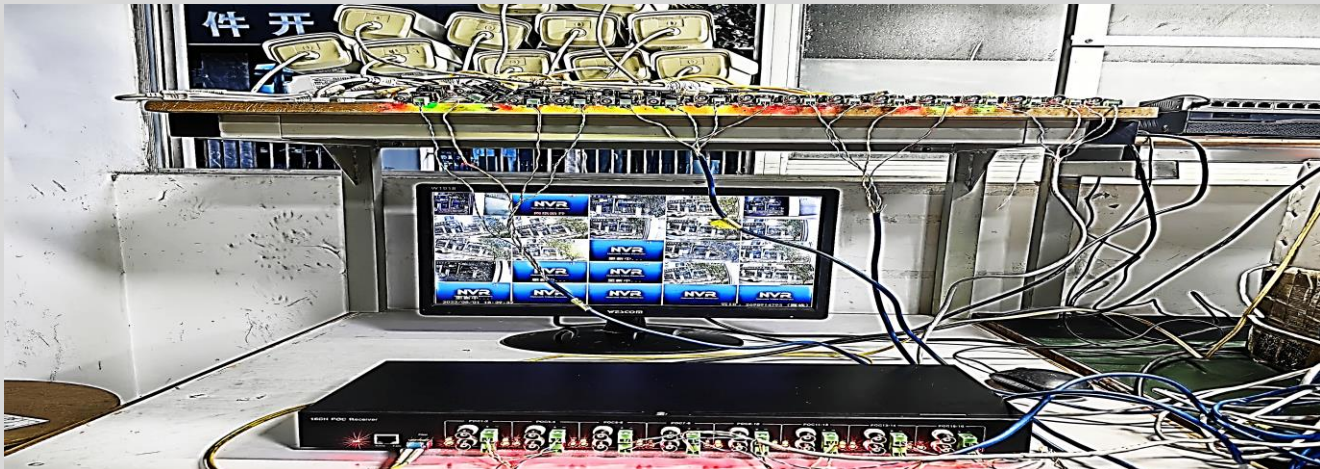
**Actual Install 4 COAX CABLES, 1 UTP CABLE- 8 IP CAMERAS, 4K, 3W Cameras, 400 Meters**



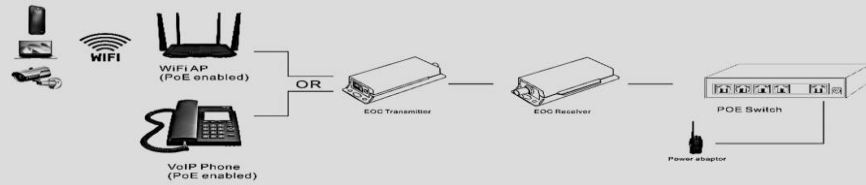
**Part Number: EOC-16PKIT \$875.00 per kit**



**Actual Install 5 COAX CABLE, 3 UTP CABLE- 16 IP CAMERAS, 4K, 3W Cameras, 400 Meters**



Remote network & power transmission for POE compatible applications



Maximum System Performance Achieved Using Below Connectors

**UNIVERSAL BNC COMPRESSION PLUG SPECIFICALLY DESIGNED FOR ETHERNET OVER COAX UPGRADES PROVIDING SUPERIOR ELECTRICALS /MECHANICALS RESULTING IN BEST SYSTEM RESULTS**



Connection Perfection  
**UBP-COMP**

Designed With Separate Center Contact Capturing the Center Conductor for enhanced electrical/mechanical performance (VSWR): 1.62: 1 through 4 GH 62 lbs cable retention Terminates RG 58 TFE thru RG 6 Quad

JUST COMPARE THEIR SINGLE CABLE Antiquated Contact Design!

- |                |               |
|----------------|---------------|
| 0E-BNCC59P75   | 302-00CSTP    |
| 0E-BNCCOM75T   | 0E-BNCCOM75T  |
| 51-FSN69BNC5   | 51-FSN69BNC   |
| 0E-BNCC6P75T   | 302-N2CSTP    |
| 0E-BNCCOMH75   | 0E-BNCCOM59PT |
| 51-FSNB68BNCUR | 51-SNS1P59BN  |
| 0E-BNCCOM75C   | 0E-BNCCM6TP   |
| 0E-BNCCM6TP    | 51-SNS1P6QS   |

**OURS IS \$16.00/10 PERFECT**

**REDESIGNED WITH CUTTING BOARD CLOSER TO WIRES-PERFECT WIRE CUT**



Connection Perfection  
**CAT5-EZP CAT6-EZP**  
Crimp Tool -EZ-CT

Produces a Perfectly Clean Cut!



JUST COMPARE THEIR COSTS

- 100003C Clamshell 50
- 1000010C-Clamshell 50
- 100003B Bag 100
- 100009C-Clamshell, 10
- 105003 Bag 500
- 100010B-Box 100
- 100015 Clamshell 15
- 105004-Bulk page 500
- 20203J Jar 100
- 0E-CAT6RJ45P Jar 50
- 0E-CAT6RJ45J Jar 100
- 0E-CAT5RJ45J Jar 100

**OURS IS \$12.00/50 PERFECT**

