CE-EOC01 Quick Guide

Single Channel Ethernet Over Coax Kit

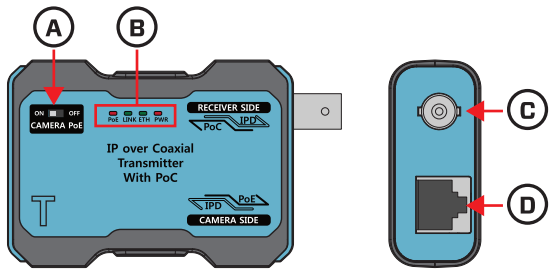
Included Items:
- Transmitter (CE-EOC01(TX)) x 1
- Receiver (CE-EOC01(RX)) x 1
- Instructions x 1
- Mounting Bracket x 2

Required Items:
- PoE+ (IEEE 802.3at) Switch or Injector

Optional Items:
- DC48V Power Adapter (not included)

HARDWARE DESCRIPTION

Transmitter - CE-EOC01(TX)



A. **Camera PoE Switch:**
   ON: Camera receives power over coax
   OFF: Camera must be powered locally (no power sent over coax)

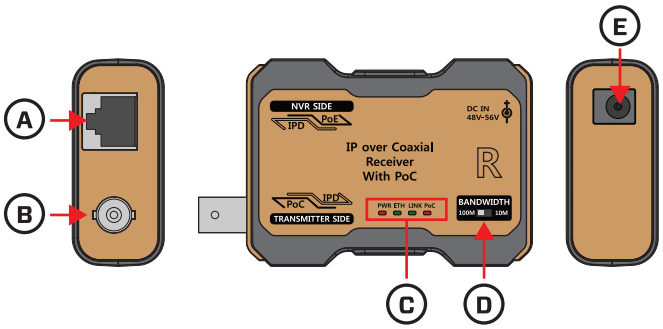
B. **LED Indicators:** (see chart to the right)

C. **BNC:** Connect Transmitter to Receiver via coaxial cable (RG59/RG6)

D. **RJ45:** Connect to Camera via ethernet cable (Cat5e/Cat6)

Name	Color	Status
PoE	Red	On: PoE input to camera Off: No PoE input to camera Flashing: IP camera overcurrent (short/open circuit)
LINK	Green	On: Connected to Receiver Off: Not connect to Receiver
ETH	Green	Flashing: Ethernet connected Off: No ethernet connection
PWR	Red	On: power input from Receiver Off: No power from Receiver

Receiver - CE-EOC01(RX)



A. **RJ45:** Connect to Switch via ethernet cable (Cat5e/Cat6)

B. **BNC:** Connect Receiver to Transmitter via coaxial cable (RG59/RG6)

C. **LED Indicators:** (see chart to the right)

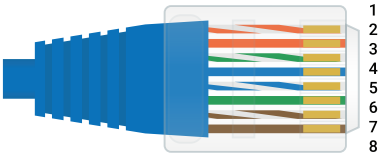
D. **Bandwidth Switch:**
   100M: Transmit at 100Mbps (100Mbps over RG-59: 300m)
   10M: Transmit at 10Mbps (10Mbps over RG-59 : 700m)

E. **DC48V Input:** Connect to DC48V power if not connecting to PoE/PoE+ Switch (DC48V power supply not included)

Name	Color	Status
PWR	Red	On: power input from PoE/PoE+ Switch Off: No power
ETH	Green	Flashing: Ethernet connected Off: No ethernet connection
LINK	Green	On: Connected to Transmitter Off: Not connect to Transmitter
PoC	Red	On: PoE input to camera Flashing: Transmitter overcurrent (short/open circuit)

Network Cable Pinout

Use only T568B wiring when terminating ethernet cable.

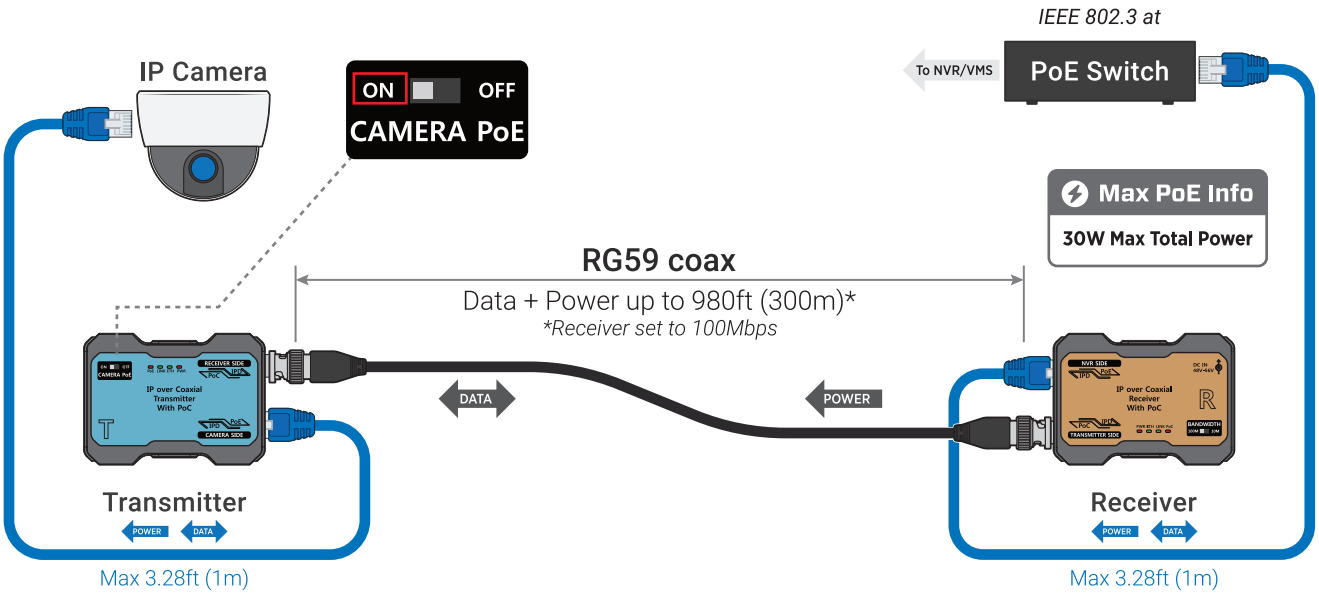


Pin #	Wire Color	10/100 Mbps - DC & Data Half Duplex
1	White & Orange	Tx+
2	Orange	Tx-
3	White & Green	Rx+
4	Blue	DC+

Pin #	Wire Color	10/100 Mbps - DC & Data Half Duplex
5	White & Blue	DC+
6	Green	Rx-
7	White & Brown	DC-
8	Brown	DC-

CONNECTION DIAGRAM

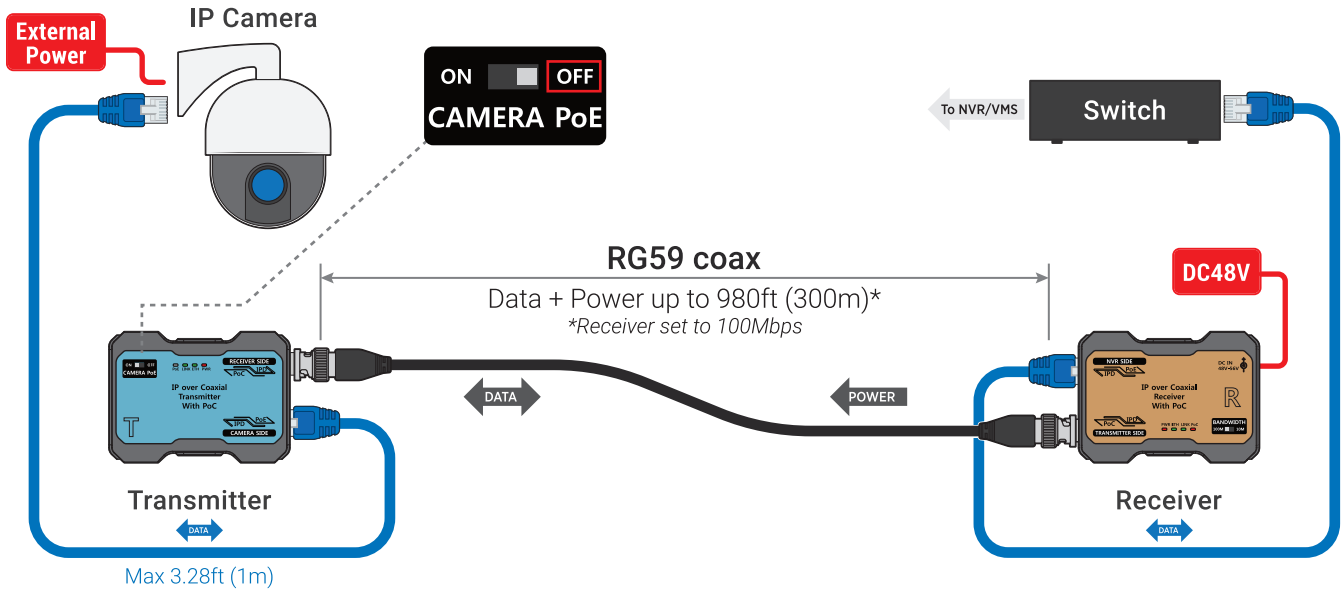
Power & Data over Coax (PoE Switch powering Receiver, Transmitter, and IP Camera)



CONNECTION DIAGRAM

Power & Data over Coax (DC48V powering Receiver & Transmitter, IP Camera powered from separate power supply)

For high power-consumption cameras such as IP PTZ cameras and cameras equipped with IR LEDs, it is recommended to use a dedicated power adapter for the camera



Distance Information

If desired, the Bandwidth switch can be changed from 100Mbps (100M) to 10Mbps (10M) for longer cable distances. Longer cable distances will decrease the amount of available power at the camera.

BANDWIDTH 100M ■ 10M		
	Max Distance	980ft (300m)*
	Max Power	16W**

BANDWIDTH 100M ■ 10M		
	Max Distance	2,290ft (700m)*
	Max Power	7W**

*The actual transmission distance may vary depending on the coaxial cable and connector construction quality.
**Max power: maximum available power at the camera, at maximum cable distance. Max power can vary up to 20~30% based on cabling integrity.