

CE-EOC16 Quick Guide

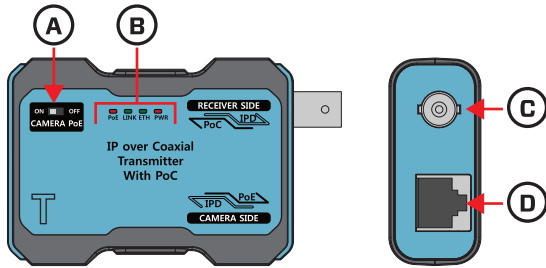
16 Channel Ethernet Over Coax Kit

Included Items:

- Transmitter (CE-EOC01(TX)) x 16
- Receiver (CE-EOC16(RX)) x 1
- Instructions x 1
- Rack Mount Bracket x 2
- AC Power Cord x 1

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)

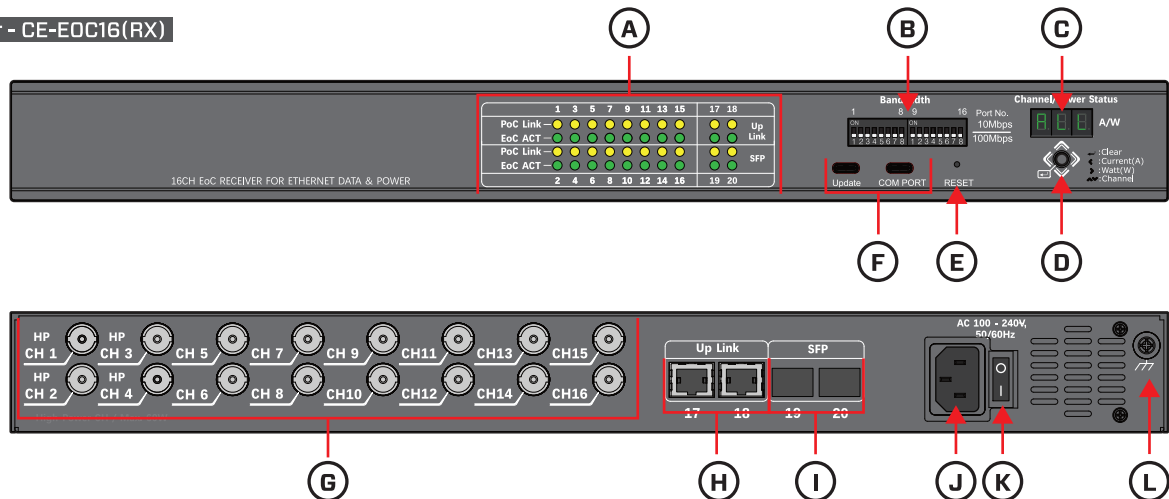
B. LED Indicators: (see chart to the right)

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-EOC16(RX)



A. LED Indicators: (see chart to the right)

B. Bandwidth Switch:

100Mbps: Transmit at 100Mbps (100Mbps over RG-59: 250m)

10Mbps: Transmit at 10Mbps (10Mbps over RG-59 : 700m)

C. LCD Display: Displays current (A) and power consumption (W) of each channel

D. Channel Setting Joystick: Use to adjust the displayed info on LCD

E. Reset: Press & hold for two seconds to reset the system

F. Update/Com Port: Used for firmware updates, no user function

G. BNC: Connect Receiver to Transmitters via coaxial cable (RG59/RG6), 30W max

H. RJ45 Uplink: Connect to network switch

I. SFP Port: Optical module slot for connection to network devices

J. AC Power Input: AC 100-240V 50/60Hz

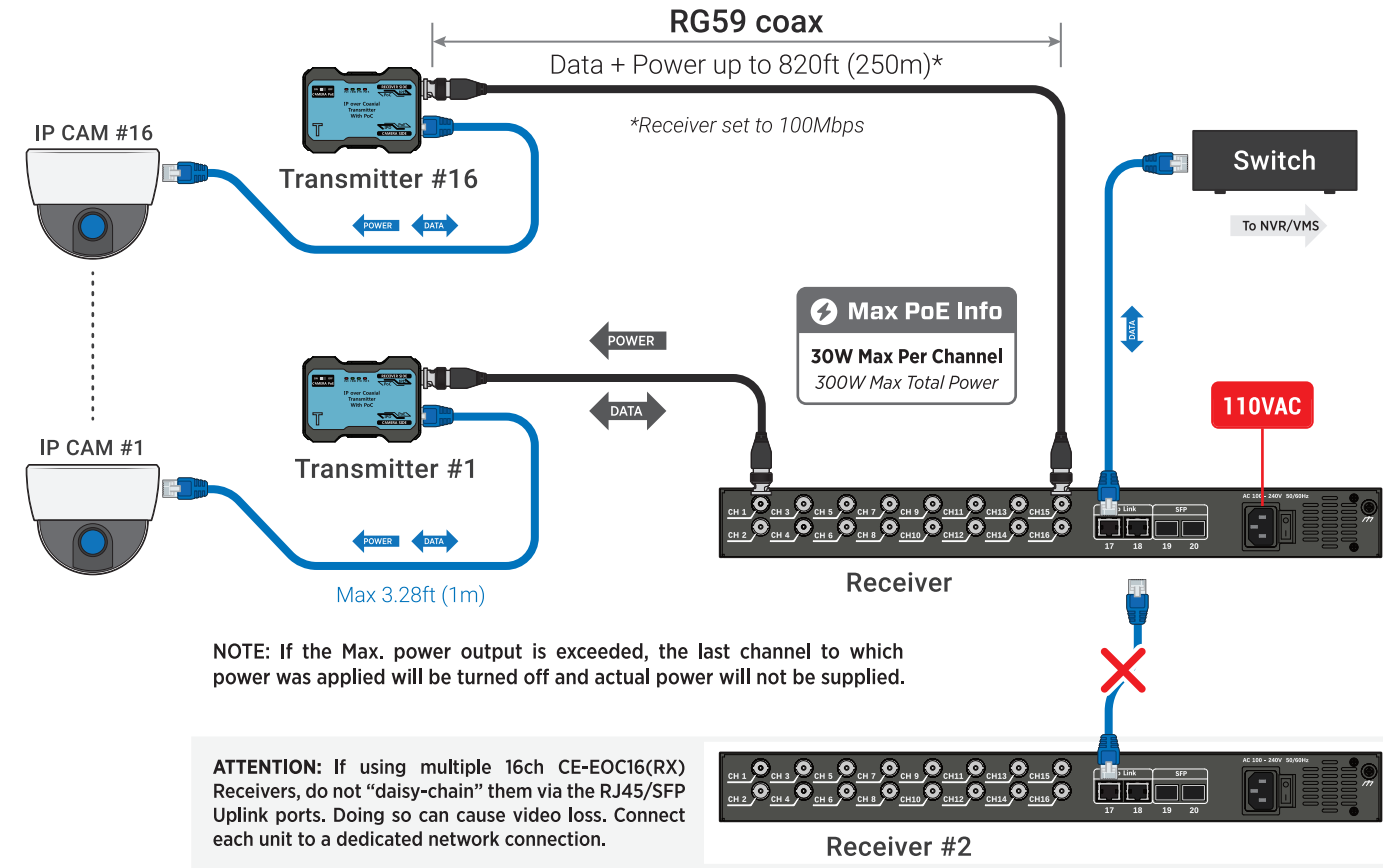
K. Power Switch: On/Off power rocker switch

L. Ground Terminal: Grounding connection terminal

Name	Color	Status
PoC Link	Yellow	☒ On: Normal power to camera ☐ Off: No power ☒ Flashing: Abnormal power (overcurrent, short circuit, open circuit)
EoC ACT	Green	☒ On: Connection in progress ☒ Flashing: Normal connection to Transmitter ☐ Off: No connection to Transmitter
Up Link	Yellow	☒ On: Connected to network switch ☐ Off: No network connection
	Green	☒ Flashing: Connected to network with data communication ☐ Off: No network connection
SFP	Yellow	☒ On: Optical communication link is properly connected ☐ Off: Optical communication device is not connected
	Green	☒ Flashing: Optical communication data is transmitted/received normally. ☐ Off: Optical communication device is not connected

CONNECTION DIAGRAM

Power & Data over Coax (Receiver powering Transmitters and IP Cameras)



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. When doing so, set the Transmitter Camera PoE switch to the OFF position.

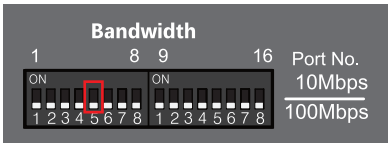
Network Cable Pinout

Use only T568B wiring when terminating ethernet cable.

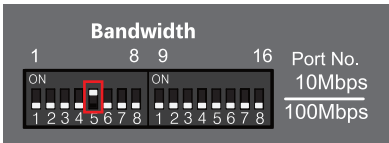
Pin #	Wire Color	10/100 Mbps - DC & Data Half Duplex	Pin #	Wire Color	10/100 Mbps - DC & Data Half Duplex
1	White & Orange	Tx+	5	White & Blue	DC+
2	Orange	Tx-	6	Green	Rx-
3	White & Green	Rx+	7	White & Brown	DC-
4	Blue	DC+	8	Brown	DC-

Distance Information

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



Max Distance
820ft (250m)*
Max Power
23W**



Max Distance
2,290ft (700m)*
Max Power
11W**

*The actual transmission distance may vary depending on the coaxial cable and connector construction quality. Distance based on RG59 cable.
**Max power: maximum available power at the camera, at maximum cable distance. Max power can vary up to 20-30% based on cabling integrity.