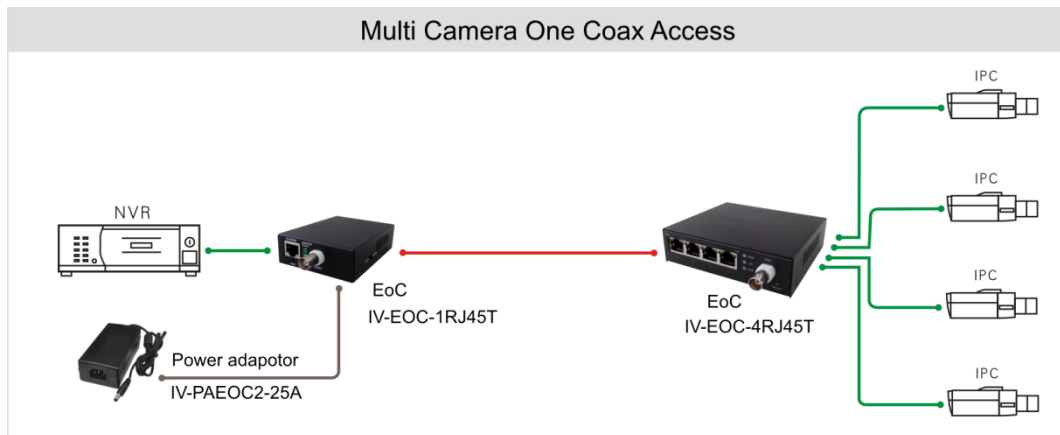# EOC Application Guide

EOC serials product, three kinds: 1BNC port, 1RJ45 port, short as "*IV-EOC-1RJ45T*"
4BNC ports, 1RJ45 port short as "*IV-EOC-4BNCT*"
1BNC port, 4RJ45 ports short as "*IV-EOC-4RJ45T*"

Multi Camera One Coax Access

Multi Camera, Multi Coax Aggregation Access
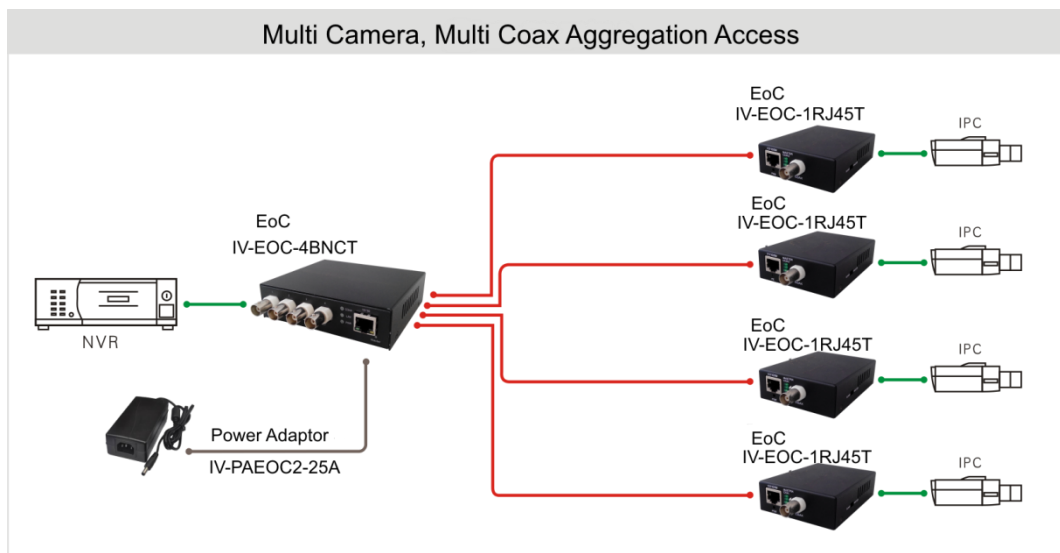
EOC offers three flexible connections:
Point to Point/Bus type connections/Ring type connections

Point To Point

Bus Type Connections

Ring Type Connections
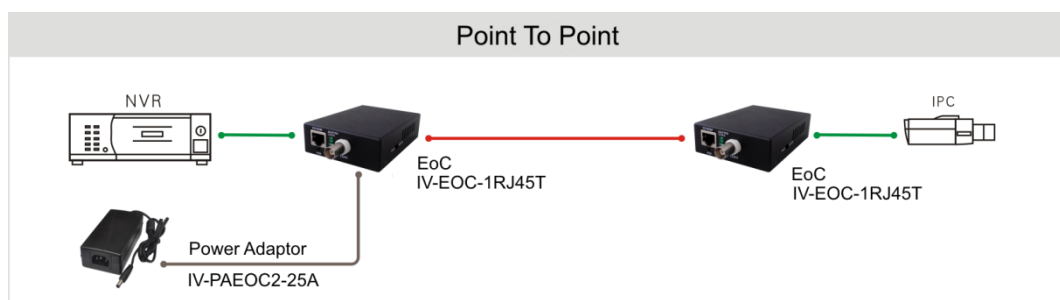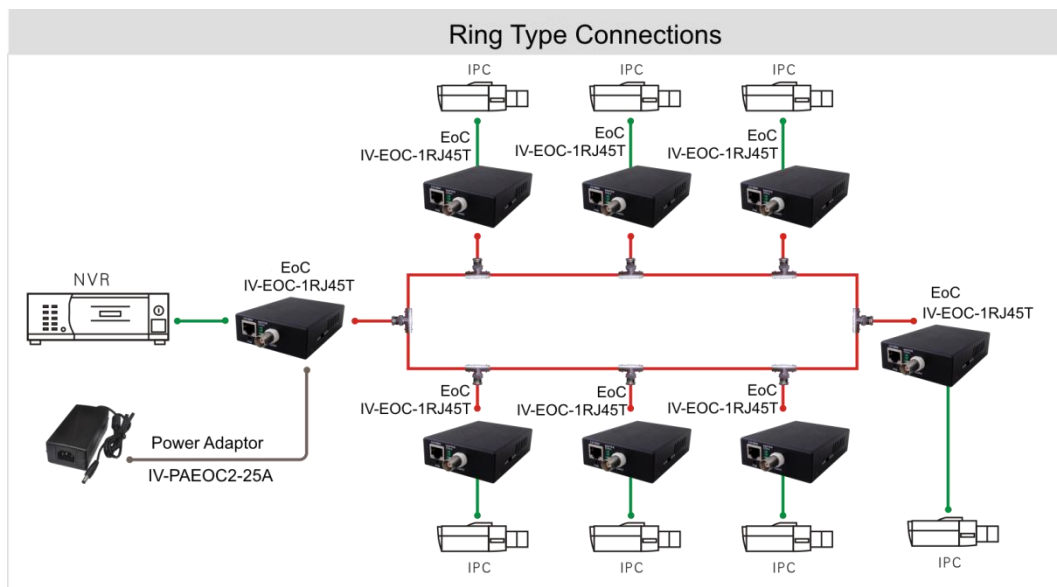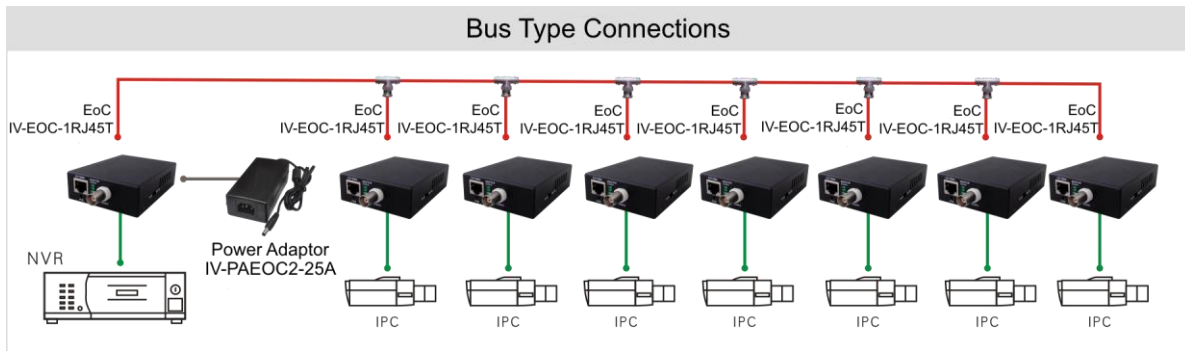
Features :

■ This device consists of master and slave, any model in one solution can be set as master, then all the rest will be slave.

■ EOC can work with power supply DC 12V-48V, depended on different applications.

■ When working with power supply DC48V at local side, it can power the EOC model at remote side via coax cable; all three applications above are compliant with this situation.

■ EOC model at IP camera end can also power cameras over Ethernet cable.

■ In point to point application, when it works with DC 12V power supply at both local and remote side, the transmission distance over Coax can be up to 4921 ft. with 8Mbps bandwidth. When the local EOC works with DC48V power supply, it can power the remote EOC over Coax, and data from the IP camera can be transmitted back at the same time.

■ In Bus solution, max. 8 EOC models can be connected in one solution with T connector, anyone of them can act as receiver, and the rest can be connected to cameras. In one solution, only one of them can be set as master and then the rest will be slave. When working with DC 48V 1A power supply at local side, it can power all 8 EOC models over coax cable, saving the cost to the most by reducing the power adaptors. Data and power can run over the coax cable at the same time.

■ In Ring solution, max. 8 EOC models can be connected in one solution with T connector, anyone of them can act as receiver, and the rest can be connected to cameras. In one solution, only one of them can be set as master and then the rest will be slave. When working with DC 48V 1A power supply at local side, it can power all 8 EOC models over coax cable, saving the cost to the most by reducing the power adaptors. Data and power can run over the coax cable at the same time.

EOC transmitting bandwidth：

Transmitting distance	Transmitting bandwidth	Transmitting distance	Transmitting bandwidth
1640 ft.	60-70Mbps	3281 ft.	20-30Mbps
1969 ft.	50-60Mbps	3937 ft.	10-20Mbps
2625 ft.	40-50Mbps	4921 ft.	8Mbps

Power Consumption

If IP camera power consumption: ≤10W, local side can apply POE function providing power to remote and camera

If IP dome camera power consumption: ≥25W, local side is not suggested for POE function, adding a 48V power adaptor for remote side to POE power the camera.

EOC power application

Do not support POE function: Local side use DC12V, remote side use DC48V;
Support POE function: Local side and remote side can use DC48V; or local side use DC56V to POE power the remote side and camera.
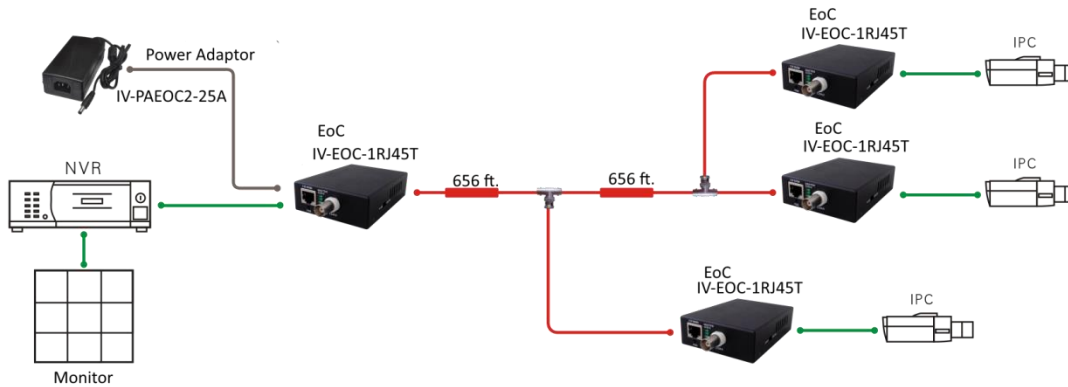
Application solutions

1、Local side: IV-EOC-1RJ45T with DC56V 2A power adaptor to POE remote side and camera

Remote side: Distance to 1312 ft. apply a IV-EOC-1RJ45T and camera powered by local
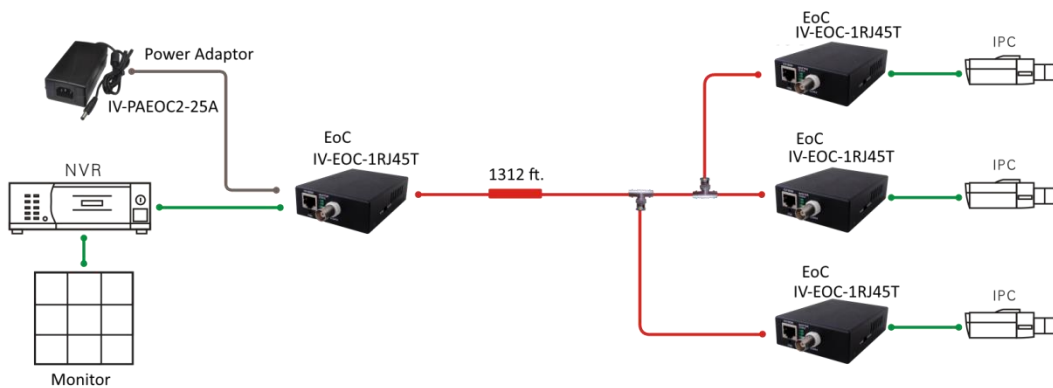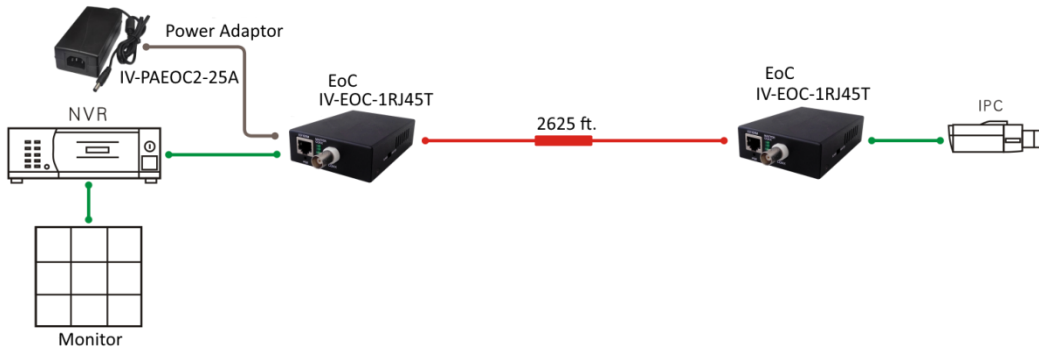Distance to 1969 ft. apply a IV-EOC-1RJ45T and camera powered by local IPC 1.3 million pixels 720P, each 5Mbps Stream
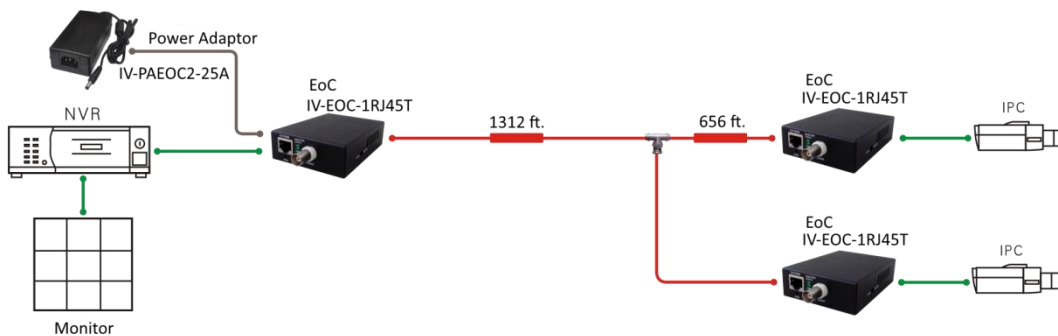
2 、Local side: IV-EOC-1RJ45T with DC56V 2A power adaptor to POE remote side and camera
   Remote side: Distances to 1312 ft. apply two IV-EOC-1RJ45Tand two cameras powered by local
             Distance to 656 ft. apply a IV-EOC-1RJ45T and camera powered by local IPC 1.3
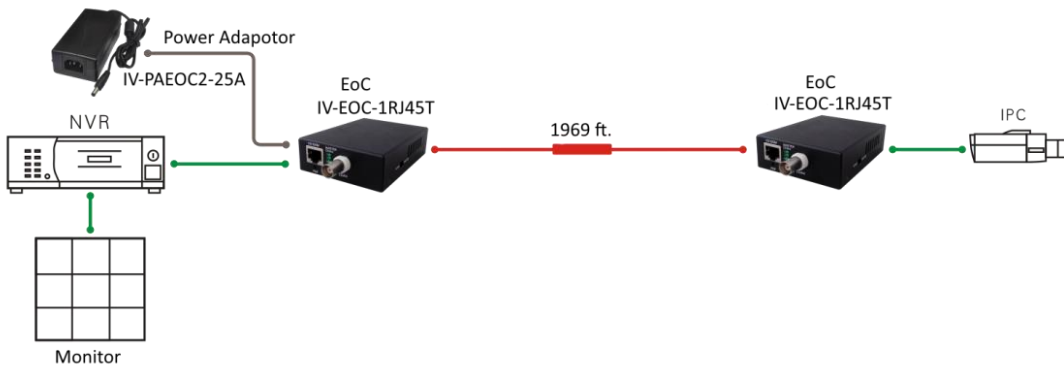   million pixels 720P, each 5Mbps Stream

3、Local side: IV-EOC-1RJ45T with DC56V 2A power adaptor to POE remote side and camera
    Remote side: Distances to 1312 ft. apply three IV-EOC-1RJ45T and three cameras powered by local
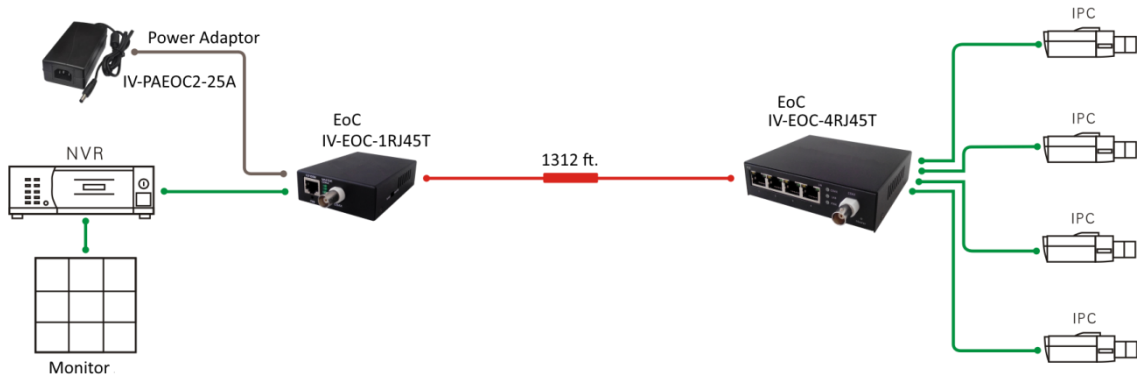   IPC 1.3 million pixels 720P, each 5Mbps Stream

4、Local side: IV-EOC-1RJ45T with DC56V 2A power adaptor to POE remote side and camera
Remote side: distance to 2625 ft. apply a IV-EOC-1RJ45T and a camera powered by local
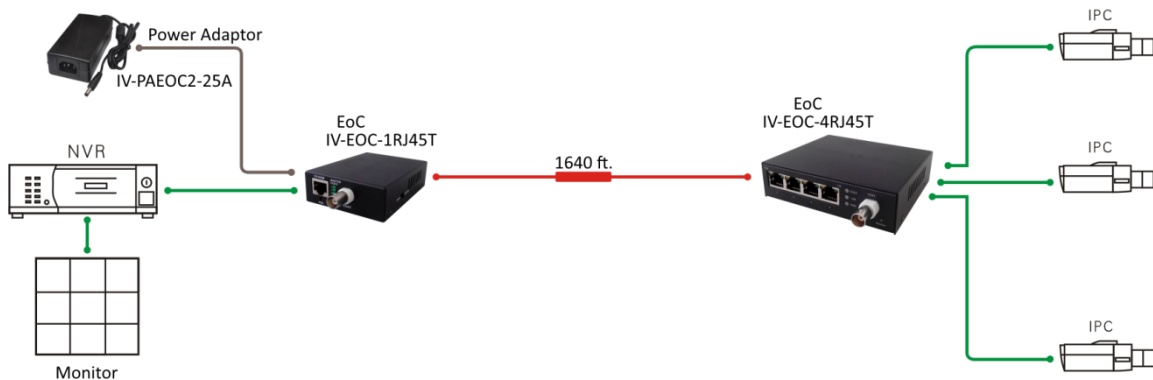IPC 1.3 million pixels 720P, each 5Mbps Stream

5、Local side: IV-EOC-1RJ45T with DC48V 2A power adaptor to POE remote side and camera
Remote side: distance to 1969 ft. apply a IV-EOC-1RJ45Tand a camera powered by local
IPC 1.3 million pixels 720P, each 5Mbps Stream

6、Local side: IV-EOC-1RJ45T with DC56V 2A power adaptor to POE remote side and camera
   Remote side: distance to 1312 ft. apply a IV-EOC-4RJ45T and four camera powered by local
   IPC 1.3 million pixels 720P, each 5Mbps Stream

7、Local side: IV-EOC-1RJ45T with DC56V 2A power adaptor to POE remote side and camera
   Remote side: distance to 1640 ft. apply a IV-EOC-4RJ45T and three camera powered by local
         IPC 1.3 million pixels 720P, each 5Mbps Stream

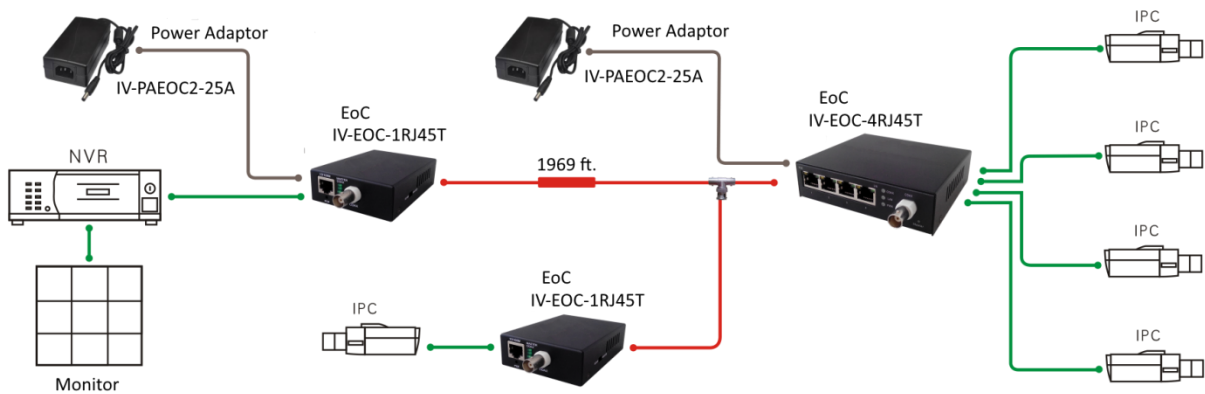8、Local side: IV-EOC-1RJ45T with Power supply DC48V 1A

    Remote side: 2297 ft., one IV-EOC-4RJ45T with Power supply DC48V 1A, providing power to four IP cameras

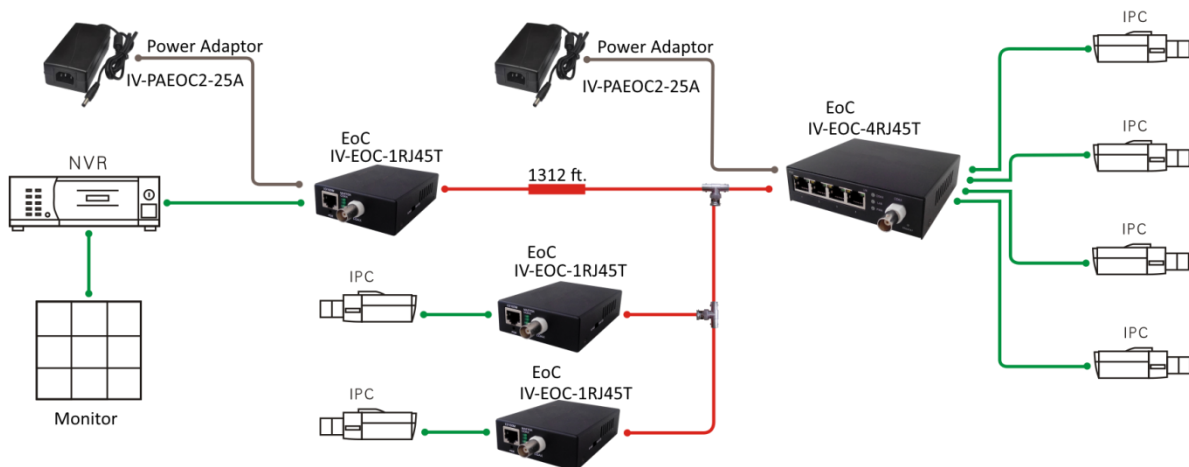   IPC 1.3 million pixels 720P, each 5Mbps Stream
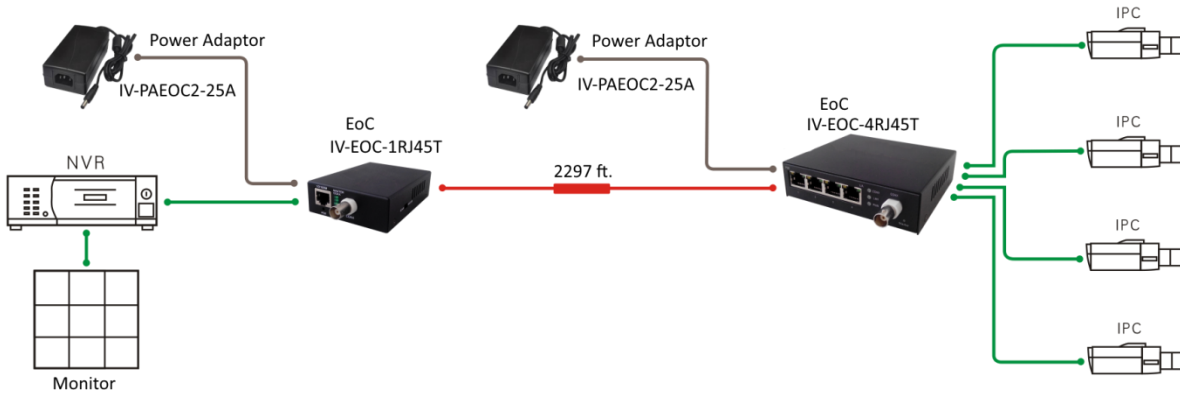
9、Local side: IV-EOC-1RJ45T with Power supply DC48V 1A

    Remote side: 1969 ft., one IV-EOC-4RJ45T with Power supply DC48V 1A, providing power to four IP cameras. 1969 ft., one IV-EOC-1RJ45T connected to one IP camera each, getting power from local side IPC 1.3 million pixels 720P, each 5Mbps Stream

10、Local side: IV-EOC-1RJ45T with Power supply DC48V 1A
Remote side: 1312 ft., IV-EOC-4RJ45T with Power supply DC48V 1A, providing power to four IP cameras. 1312 ft., two IV-EOC-1RJ45T connected to one IP camera each, getting power from local side IPC 1.3 million pixels 720P, each 5Mbps Stream

11、Local side: IV-EOC-1RJ45T with Power supply DC48V 1A
Remote side: 656 ft., IV-EOC-4RJ45T with Power supply DC48V 1A, providing power to four IP cameras
656 ft., three IV-EOC-1RJ45T connected to one IP camera each, getting power from local side IPC 1.3 million pixels 720P, each 5Mbps Stream