

Question: How can I control IP CCTV cameras with POE (Power over Ethernet)?

Answer: PoE requires no extra power cable because the power is delivered down the ethernet cable without the need for splitting the cable. Simply plug in the network cable to the switch to power the camera.

More and more IP cameras support PoE (Power over Ethernet). PoE saves time and money on installation as extra power cable is not required because the power is delivered down the ethernet cable.

PoE devices are so efficient that sending power down the network neither degrades the data signal nor decreases the range.

Powering PoE cameras on a network that supports PoE is as simple as plugging in the network cable. The camera will automatically detect that the network supports PoE. Non PoE cameras can still be added to PoE networks as usual. As power is only supplied when compatible cameras are connected there is no risk of damage to non PoE cameras.

PoE networks supply up to 44V DC at 350mA at the switch end and up to 37V DC at 350mA at the camera end. This is more than enough to power internal cameras but may struggle with more demanding IR and PTZ cameras. There is also no risk of over powering cameras as they only draw as much power as required.

A lot of new network switches support PoE making it a great option on new installs. However, older networks can be easily upgraded to support PoE as well. A midspan (injector), which has its own power supply, is connected to the network switch. The midspan then combines data and power creating a PoE network.

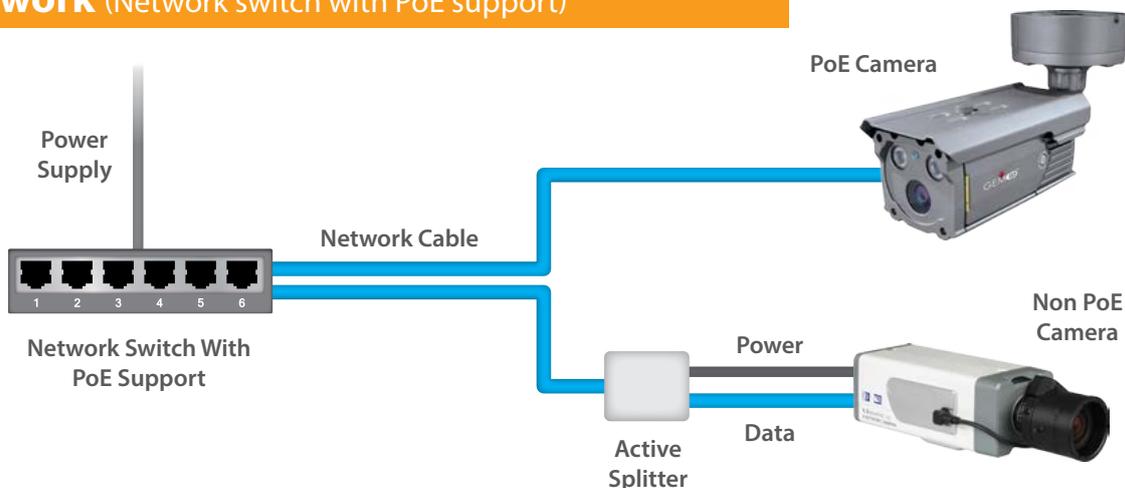
Non PoE cameras can also draw power from a PoE network using an active splitter. An active splitter, as the name suggests, splits the PoE network cable back into a standard network cable and separate power lead for powering the camera.

The diagrams below show how easy it is to add cameras to PoE and non PoE networks.



IP-CAM842 - PoE All-In-One IR Camera

PoE Network (Network switch with PoE support)



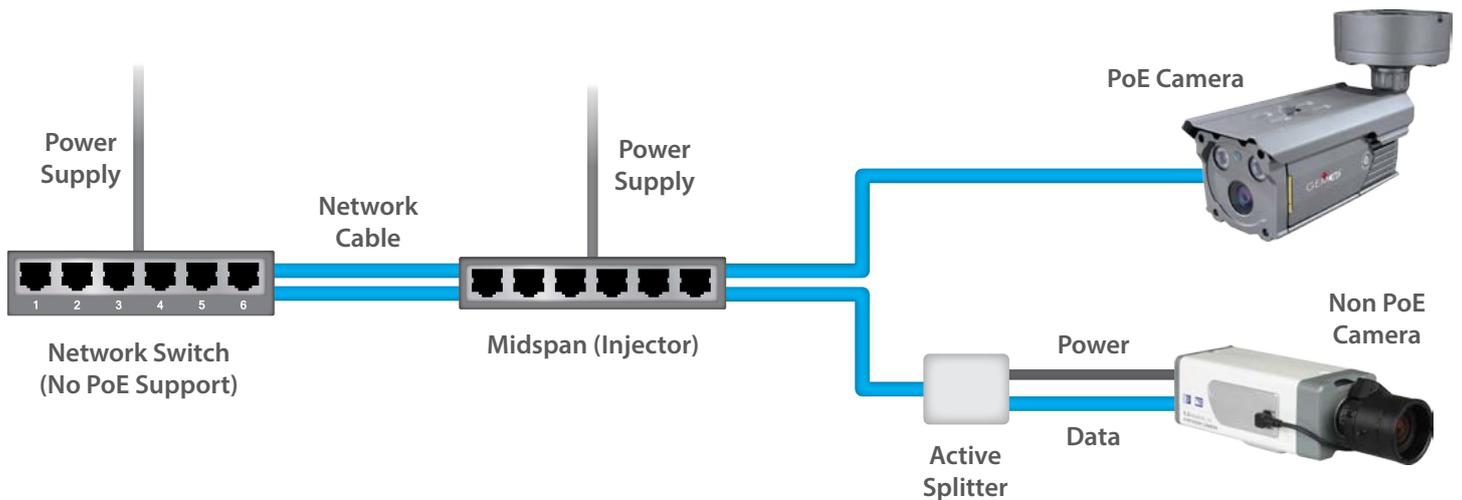
This CCTV installation tip is aimed at helping you to install CCTV equipment. If you are looking for answers on "how to fit CCTV" or perhaps "how to network a DVR or NVR" or even "how to get CCTV on your mobile phone" why not check out our full range of CCTV installation tips at: www.systemq.com

How to guides aim to answer commonly asked questions in a concise and informative manner. They are for advice & guidance only and do not replace any of the manuals or other literature supplied with our products.

How To:

How To Cable IP Cameras With PoE

Non PoE Network (Network switch without PoE support)



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