



byRemote Surveillance Cabling Guide

byRemote, Inc.
3535 Main Ave, Suite B
Fargo, ND 58103
Tel. 701.234.9060
Fax. 701.364.9165
info@byremote.net
www.byremote.net

Power-over-Ethernet Installation

Power over Ethernet or PoE technology describes any system to transmit electrical power, along with data, to remote devices over a standard twisted-pair cable in an Ethernet network. This technology is useful when it would be inconvenient or infeasible to supply power to each camera. Maximum distance per run is approximately 300 feet. The Category 5 (Cat5) cable runs may be either plenum or non-plenum.

For the byRemote surveillance system using PoE-ready cameras:

- Run 1 Cat5 cable to each camera location and terminate with RJ-45 connectors at both ends. See RJ-45 pin-out below.

Low-Voltage Installation

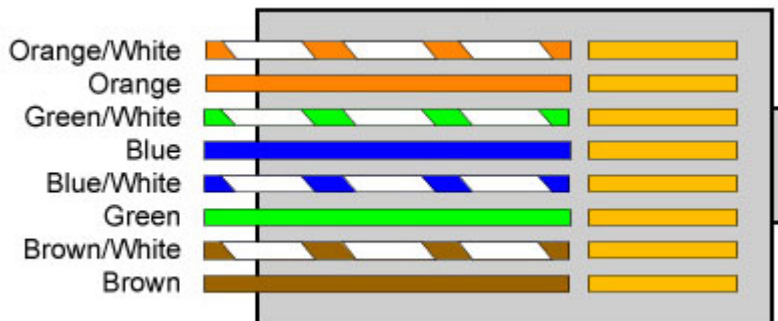
When the cameras are not capable of Power-over-Ethernet a power source will have to be provided. Instead of having to install an electrical outlet near each camera location, it is recommended to run 2-stranded, non-shielded 18-gauge electrical wire to each camera location. This can be run at the same time the Cat5 cable is run. All cabling should come back to the main location where the router will be placed (typically the office area).

For the byRemote surveillance system using non-PoE cameras:

- Run 1 Cat5 cable to each camera location and terminate with RJ-45 connectors at both ends.
- Run 1 18-gauge electrical cable to each camera location and splice with the power supply. Please note whether the camera is AC or DC on the power supply that comes with each camera.

RJ-45 Pin-out

Ethernet 10/100 Mbit (Cat5) network cable wiring and layout of 8 pin RJ-45 male connector. For straight-through cable, terminate the same at both ends of the Cat5 cable.



Contact Information

For questions regarding the installation of a byRemote surveillance system, please contact byRemote Technical Support.

byRemote, Inc.
Bethany Johs
3535 Main Ave, Suite B
Fargo, ND 58103
Support: 701-234-9060 #2
support@byremote.net
www.byremote.net