

How does Power-over-Ethernet (PoE) work with Alarm.com video devices?

Power-over-Ethernet devices can provide and receive power through an Ethernet cable's free wires. Video devices capable of using Power-over-Ethernet only require one cable for power and data.

Alarm.com Power-over-Ethernet video devices use the IEEE 802.3af standard, which is an active Power-over-Ethernet standard.

Power-over-Ethernet standards

Standard	Description
Active: <ul style="list-style-type: none"> • IEEE 802.3af (recommended for Alarm.com video devices) • IEEE 802.3at • IEEE 802.3bt 	The devices providing and receiving power can share their power requirements with each other. The providing device (e.g., a Power-over-Ethernet router, switch, or injector) verifies that its output matches the power requirements of the video device before supplying power.
Passive: <ul style="list-style-type: none"> • Non-standard 	The device provides power whether or not the voltage is correct. This could potentially damage the video device if the amount of power supplied is incorrect.

Note: The maximum distance that PoE can provide power is typically 100 meters (328 feet) when the system meets the IEEE 802.3af standard. For more information, see [What is the maximum distance of Power-over-Ethernet \(POE\)?](#).

For more information about pin configuration and general Ethernet compatibility and standards, see [Video device Ethernet cable compatibility](#).

Power-over-Ethernet compatible video devices

The following devices can receive power directly through their Ethernet ports. For devices not on this list, consider using a Power-over-Ethernet splitter. For more information about the Power-over-Ethernet splitter, see [Power-over-Ethernet hardware](#).

- [180° HD Camera \(ADC-V622\)](#)



- [Indoor/Outdoor Mini Bullet \(ADC-VC726\)](#)
- [Indoor/Outdoor Bullet Camera \(ADC-VC736\)](#)
- [Indoor/Outdoor Dome \(ADC-VC826\)](#)
- [Indoor/Outdoor Turret Camera \(ADC-VC836\)](#)
- [Indoor/Outdoor Mini Bullet \(ADC-VC725\)](#) (no longer sold)
- [Indoor/Outdoor Dome \(ADC-VC825\)](#) (no longer sold)
- [Indoor/Outdoor Mini Dome Camera \(ADC-V821\)](#) (no longer sold)
- [Outdoor - \(ADC-V700X\)](#) (no longer sold)
- [Outdoor PoE - \(ADC-V720\)](#) (no longer sold)
- [Indoor Dome - \(ADC-V820\)](#) (no longer sold)
- [1 Channel Video Server - \(ADC-VS120\)](#) (single-channel video server, no longer sold)

Power-over-Ethernet hardware

Power-over-Ethernet hardware can help provide power to most devices. Hardware that uses active Power-over-Ethernet is recommended to avoid damage to the video device.

Options include:

- Power-over-Ethernet router or switch
 - Use a Power-over-Ethernet router or switch to provide a compatible video device with power directly over an Ethernet cable.


Note: A Power-over-Ethernet router or switch may not power all of its Ethernet ports. Look for Ethernet ports labeled *PoE*.

- Power-over-Ethernet splitter
 - Use a Power-over-Ethernet splitter when the video device requires a separate power cable (i.e., the video device is not compatible with Power-over-Ethernet).
- Power-over-Ethernet injector
 - Use a Power-over-Ethernet injector when the router or switch cannot power its Ethernet ports.

Note: Alarm.com sells Power-over-Ethernet injectors on the Partner Portal (SKU: ADC-POE-INJ)

For more information about connecting video devices using these and other devices, see [Connect a video device using Power-Over-Ethernet \(PoE\)](#).

Additional resources

 Enroll in the [Video as a Service 201](#) training course today! For more information on accessing Academy Training, see [How can I access the Training Center?](#)





https://answers.alarm.com/ADC/Partner/Installation_and_Troubleshooting/Video_Devices/General_Video_Information/How_d...

Updated: Fri, 14 Aug 2020 12:04:42 GMT