



CONNECTING NOPILEUPS TO YOUR NETWORK

To detect and prevent collisions quickly, NoPileups needs network access to the equipment in your car wash. This guide will help you install the NoPileups Server and Display Interface at your site.

Need a hand?

As always, if you have any questions about how NoPileups connects to your network, don't hesitate to reach out to the NoPileups Service Team. Call (833)-667-4538 or email support@nopileups.com.

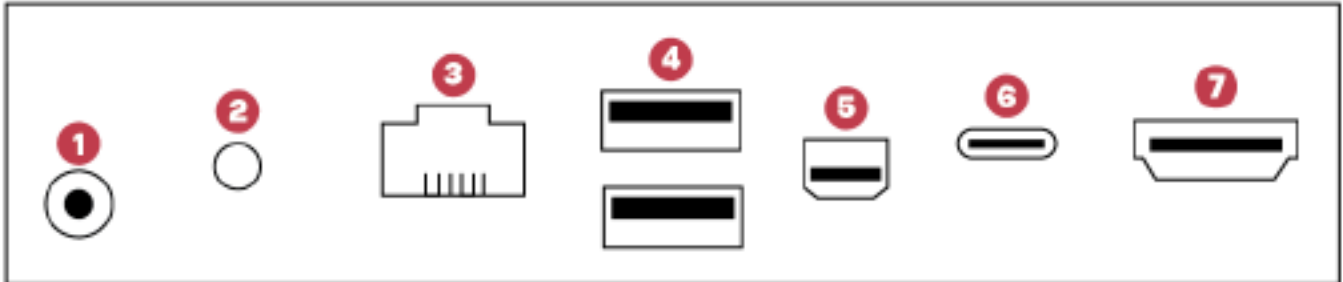
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THE NOPILEUPS SERVER

The NoPileups Server is the 'heart' of our service at your site. Once installed, it will allow NoPileups to communicate with the tunnel controller, cameras, and internet.

For the network portion of NoPileups installation, you will only be using the ports on the rear of the Server.



- | | |
|---------------------------|---------------------|
| 1. AC In | 5. Mini DisplayPort |
| 2. Speaker Out | 6. Thunderbolt Port |
| 3. Internal Ethernet Port | 7. HDMI Port |
| 4. USB Port (x2) | |

The NoPileups Server has one internal Ethernet port, which will be used exclusively for internet access. Included with the Server is a USB-to-Ethernet adapter, which will plug into one of the two rear USB ports to provide two additional Ethernet ports. These USB-to-Ethernet ports will be used to connect the Server to your camera network and tunnel controller.

Only the AC In, internal Ethernet port, and one USB port will be used with NoPileups.

CONNECTING NOPILEUPS TO YOUR NETWORK

The NoPileups Server will be communicating with several different devices on your local network. In most cases, the NoPileups Server will use three network connections to integrate with equipment.

NoPileups will need access to:

- The internet
- The camera network
- The tunnel controller

CONNECTING NOPILEUPS TO YOUR NETWORK (CONT.)

Good to know!

Your specific network layout may vary from what is described here. If so, contact NoPileups, and we can help get everything connected.

STEP 1: CONNECT TO THE INTERNET

Internet access provides a remote connection from the NoPileups Server to the NoPileups Service Operations Center. It also provides synchronization with the NoPileups Service Portal. Any time NoPileups prevents a collision, it takes a recording of the incident and uploads it to the Portal.

For NoPileups' Service Team to provide the best support, it's important that sufficient network speeds are available. Make sure you have the following:

- A minimum upload speed of 5 MB/s.
- An Ethernet cable with internet access plugged into the internal Ethernet port on the NoPileups Server.
- TCP ports 80, 443, 8040, and 8041 open, if you have an active firewall.

Connect the NoPileups Server to the internet via the Server's internal Ethernet port.

STEP 2: CONNECT TO THE CAMERAS

NoPileups cannot operate successfully without network access to the in-tunnel cameras. The camera feed is pulled using the Real-Time Streaming Protocol (RTSP) feed. Make sure the camera network meets the following requirements:

- All cameras are IP-based and support MJPEG or H.264 compression, RTSP feeds, and at least one substream.
- Any switches or Network Video Recorders (NVR) are gigabit (10/100/1000 Mbps) and Power-over-Ethernet (PoE).

Connect your camera's PoE gigabit switch to one of the USB-to-Ethernet ports on the NoPileups Server.

STEP 3: CONNECT TO THE TUNNEL CONTROLLER

To prevent collisions, NoPileups will need to communicate with the tunnel controller. In some cases, NoPileups can interface directly with equipment. If not, an ADAM 6060 will be installed at your site. Either way, NoPileups will need to be connected to the same network as the tunnel controller or ADAM.

Connect the NoPileups Server to the tunnel controller or ADAM's network via one of the USB-to- Ethernet ports.

STEP 4: CONNECT THE NOPILEUPS DISPLAY INTERFACE

The NoPileups Display Interface will be the primary method your team will use to work with NoPileups. The Display Interface often connects to a monitor/TV at the load-on area via HDMI. The Interface also comes with a 4-Button Remote, which connects to the Display Interface via USB and is used to interact with NoPileups.

Connect the Display Interface to the camera's PoE gigabit switch via Ethernet. If the network has been set up correctly, the Display Interface will connect to NoPileups automatically.

STEP 5: PREPARE YOUR MANAGER WORKSTATION

Managers will need access to NoPileups in order to disable Autostop, view reports, and have a more detailed interaction with the service. This is generally done by connecting the NoPileups Server to the same network as the manager's workstation computer.

Once connected, open a web browser and type the NoPileups Server's IP address in a web browser (we recommend Google Chrome). The workstation should now have access to NoPileups.

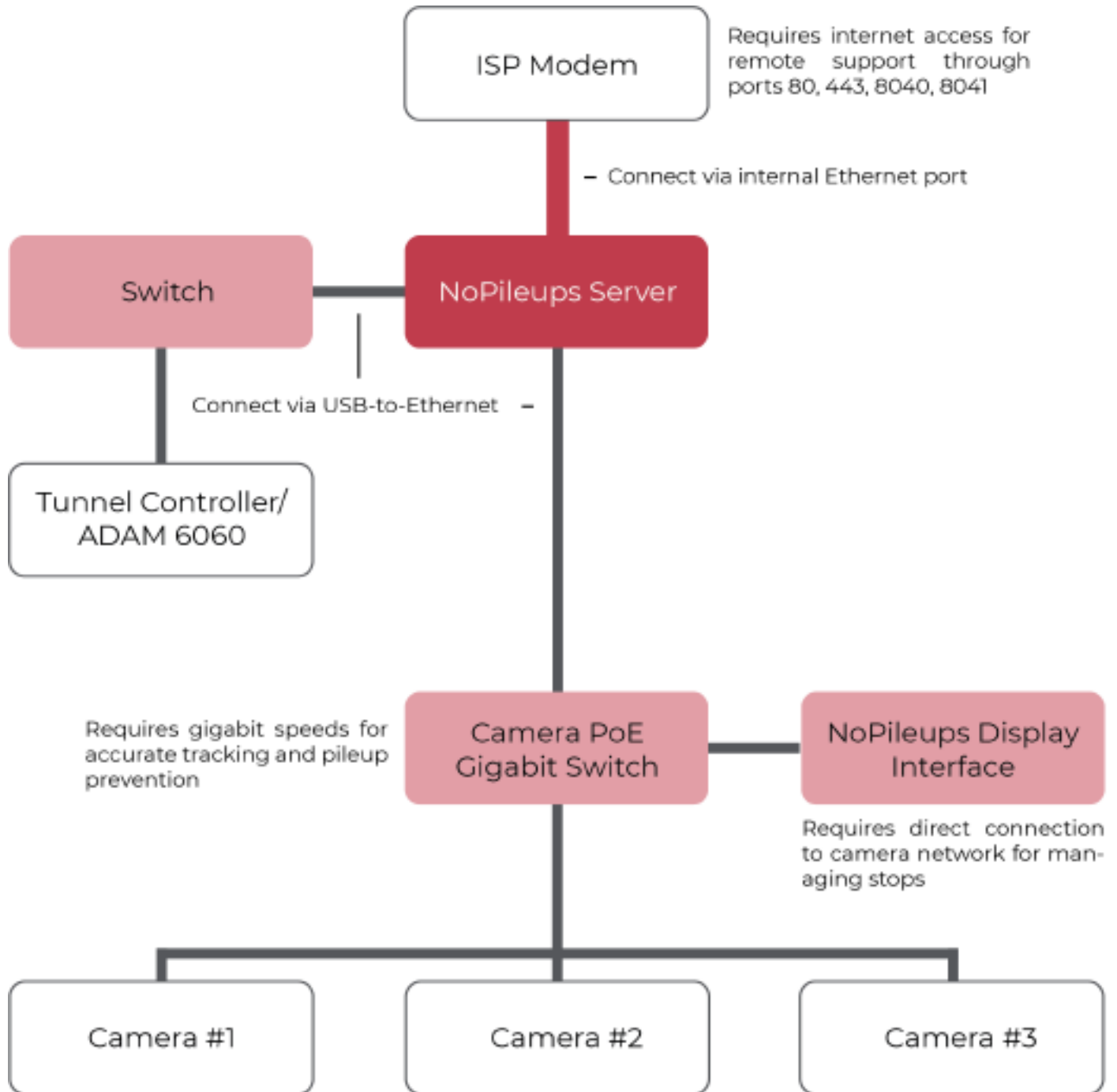
Good to know!

The IP address for the NoPileups Server will be provided to you at the time of installation. If you ever need this address, please contact NoPileups.

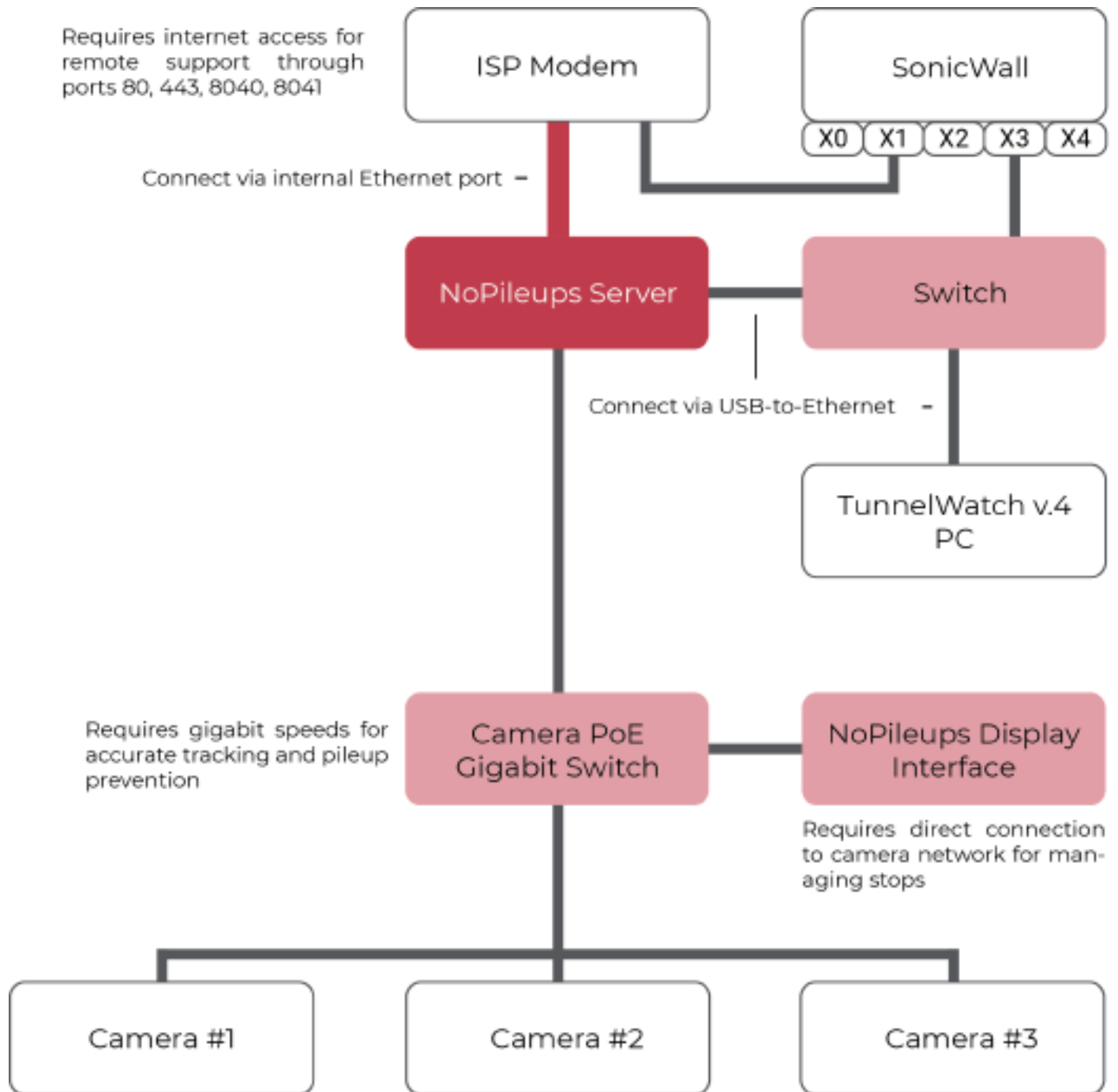
NETWORK TOPOLOGY

The following network topologies will help clarify how the NoPileups Server connects to equipment. Your own layout may differ slightly, but these should help with connecting everything correctly.

GENERAL NETWORK TOPOLOGY



NETWORK TOPOLOGY FOR SITES USING TUNNELWATCH



NETWORK HELP AND ADVICE

KEEP THINGS ORGANIZED

Labeling camera and NoPileups-related Ethernet cabling early can save a lot of time in the future. If you ever need to move equipment or troubleshoot a connection error, knowing what goes where at a glance can keep any downtime to an absolute minimum.

PCI COMPLIANCE

The NoPileups Server and NoPileups Display Interface must remain outside the scope of PCI networks. In other words, any NoPileups device must not have any connection (physical or otherwise) with a device that processes, stores, or handles payment card information. For more information on PCI Compliance please visit <https://www.pcisecuritystandards.org/>.

Have a question?

The NoPileups Service Team is ready to help!
Call (833)-667-4538 or email support@nopileups.com.