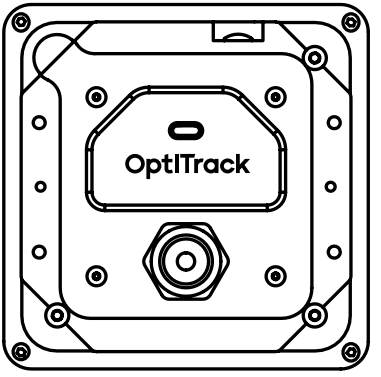
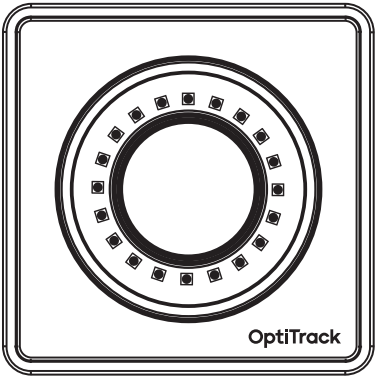




Prime^{X} and Versa^{X} Series

Quick Start Guide

❶ Install Software

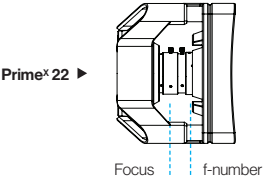
Download and run the latest software installer on your host computer. Please visit www.optitrack.com/support/downloads/ for a list of compatible software.

❷ Setup Camera Network

Place your cameras, Ethernet PoE/PoE+/PoE++ switches and host computer around your desired capture area. Using Cat 6 cables, connect the cameras to the switches, and then connect the switches to the host computer. **Diagram 1** shows the components of a system with 11 or fewer cameras and **Diagram 2** shows the components of a system with 12 or more cameras.

Tips

- Segment Ethernet camera network traffic from your office/local area network.
- For best performance, only connect the cameras and the host computer to the camera network.
- If the host computer is already connected to another network, then use a second Ethernet port or add-on network card for connecting the computer to the camera network.

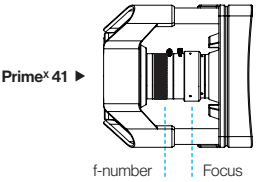


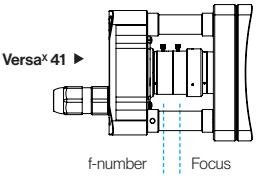
❸ Focus Cameras

The lens on each camera must be focused to optimize it for a capture volume.

To focus a camera:

1. Place a marker about two-thirds of the way across the volume from the camera you wish to focus.
2. **Prime^x** - Adjust the f-number on the camera lens, if necessary. Typical values are betwen 2 - 8 depending on the application.
3. **Versa^x** - Adjust the f-number on the camera lens, if necessary. Typical values for indoors: 1.8 (Versa^x 41) or 1.6 (Versa^x 22) and 2.8 when outdoors.
4. Higher f-numbers result in a greater in-focus range, but less light. (This is not adjustable for Prime^x 13 cameras.)
5. Press the "Aim Assist" button on the back of the camera to switch to aiming mode. Viewing within the Motive software, a slow double click to zoom into a marker in the center of the camera's view for quick aiming. Adjust as necessary.
6. Use the focus ring on the lens to bring the marker into focus. Prime^x 13 cameras use a focus tool for this process.





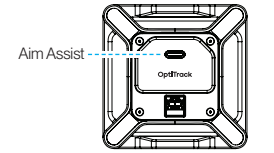
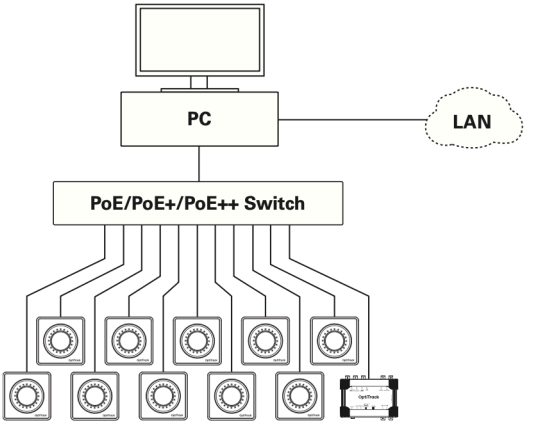
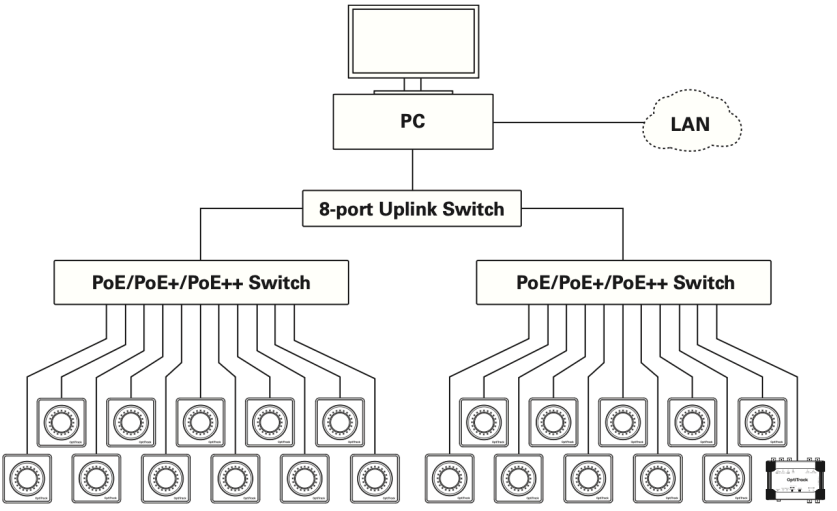


Diagram 1. Camera network with 11 or fewer cameras/devices.



10 Cameras and 1 eSync 2

Diagram 2. Camera network with 12 or more cameras/devices.



11 Cameras

10 Cameras and 1 eSync 2

LED Indicators

- If the camera displays a non-blinking 'E' on the numeric LED and a red status ring then incompatible software is being used on the host computer. Download a newer version of the software from the OptiTrack website. See Section 1 above.
- If the camera displays a blinking 'E' with no status ring then an error has occurred during the auto-negotiation with the Ethernet switch. Please contact support since there may be a hardware issue.

Technical Notes

- OptiTrack does not recommend the use of cables, extenders, hubs and switches that have not been qualified for use with OptiTrack devices. Qualified Ethernet devices are available for purchase at www.optitrack.com.
- Using the recommended PoE/PoE+/PoE++ switch with each camera type will help to get the best tracking results from your system.
- PoE, PoE+, and PoE++ switches must support full power (15.4, 34.2, and 90 Watts respectively) for every Ethernet port. PoE+ and PoE++ switches must be LLDP disabled.
- X series cameras may require a firmware update the first time a new software version is used. The process is automatic and takes less than 30 seconds. A progress indicator will be displayed on the numeric LED of the camera.
- **IMPORTANT: Do not unplug a camera during the firmware update process!**

Power Requirements

- **PoE (15.4 W): Prime^{X} 13 / 13W / Slim^{X} 13**
- **PoE+ (30 W): Prime^{X} 41 / 22 / Versa^{X} 41 / Slim^{X} 120**
- **PoE++ (90 W): Prime^{X} 120 / Prime^{X} 260 / Versa^{X} 120 / Versa^{X} 260**

Need help?

Call technical support at 1-888-965-0435 or e-mail us at support@optitrack.com.

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