

Lighting the Way with Technology

To better manage urban environments and improve public safety, a growing number of cities and local governments are embracing/adopting a new generation of street lighting systems featuring advanced sensors, computer vision, connectivity solutions, and more. These multi-function “Smart Poles” not only illuminate streetscapes but provide a range of cutting-edge technologies that help cities dramatically improve the quality of life for their residents and businesses.



Introducing Smart Light Poles

From improving public safety to reducing traffic congestion, Smart Pole solutions offer cities a powerful new way to address critical urban needs.

Smart Pole use cases

- **Boosting public safety**
Camera and sensor-equipped poles help law enforcement respond faster to incidents, monitor and manage crowds, and improve crime-scene investigations.
- **Enhancing fire management**
Sensors and smoke-penetrating LiDAR increase fire fighter visibility while traffic signal integration and weather pattern recognition allows for faster and safer response to emergencies.
- **Modernizing transportation systems**
Embedded technologies can optimize signal timing to reduce congestion and cut emissions while vehicle monitoring can improve traffic flows, boost pedestrian safety, and help redesign roadways.
- **Smarter urban planning**
Data from smart poles can help cities allocate resources more effectively, prioritize infrastructure maintenance, and expand internet access, supporting more efficient and equitable urban development.

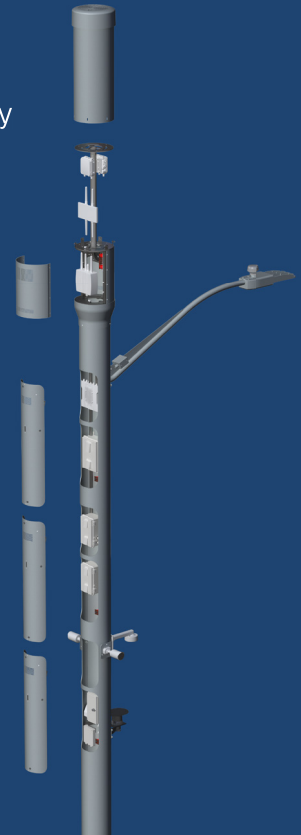


Inside the Smart Pole

A sleek modern design with fully integrated technology for enhanced resiliency and security

Key embedded technologies

- Cisco Industrial Routing, Switching & Cybersecurity
- Wi-Fi services
- CCTV
- LiDAR technology
- Edge compute & AI readiness
- 5G cellular
- Ultra-reliable wireless backhaul
- V2X (Cellular & CV2X)
- High bandwidth fiber connectivity



Driving Multi-agency collaboration

To drive adoption of Smart Pole systems, cities are encouraging police, transportation, fire departments and other agencies to leverage the technology in a coordinated effort to improve the quality of life of urban residents.

Supporting Strategic goals

Smart Light Poles are empowering local governments to achieve key strategic goals and policy initiatives, such as:

- Implementing proactive measure to decrease crime and enhance neighborhood safety
- Reducing environmental impact, fostering innovation, and promoting climate resilience and community well-being
- Expanding Smart City infrastructure to enhance efficiency, innovation, and connectivity
- Ensuring equitable access to digital services

Our technology partners



For more information

Go to [cisco.com/go/transportation](https://www.cisco.com/go/transportation) to learn more about how Smart Light Poles can help your city improve public safety, transportation systems, fire management, and urban planning.

