

PolyEdge™ Person Detection



Comprehensive, Privacy-Preserving People Detection via Ambient Wireless Signals



OPERATING PRINCIPLES

PolyEdge™ enables people detection by analyzing existing wireless signals in the environment. It passively interprets reflections and disruptions in 5G, 4G, or Wi-Fi waveforms to identify motion, occupancy, and human presence - without cameras, wearables, or emitted signals.

This approach allows continuous, privacy-preserving monitoring of activity and space utilization using only ambient connectivity data.

FEATURES & FUNCTIONS

- Signal-Based Detection
- No Cameras or Wearables
- Privacy-Preserving
- Indoor or Outdoor Operation
- Stealth Installation
- Scalable Architecture
- Detects Presence & Movement
- API Output Available

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INDOOR DETECTION

Optimized for Wi-Fi and private 5G environments, PolyEdge™ detects occupancy and motion without cameras or wearables.

It can identify where people are in real time, enable automated control of lighting or HVAC systems through the Matter standard, and even support fall detection for safety monitoring.

Compact and discreet, the indoor unit provides reliable coverage in offices, smart buildings, and assisted-living spaces.



OUTDOOR DETECTION

PolyEdge™ extends people detection capabilities outdoors, monitoring entry points, perimeters, and open areas for unauthorized presence or activity.

The system can alert operators when movement is detected in restricted zones or estimate crowd size for safety and event management.

Designed for reliability in all weather and lighting conditions, the standard PolyEdge form factor mounts easily on a tripod or fixed installation for flexible deployment.



About Tiami Networks Inc

Founded by seasoned professionals from industry leaders such as Ericsson, Verizon, Qualcomm, and Meta, Tiami Networks is a visionary startup based in California. With deep-rooted expertise in telecommunications, its team is dedicated to revolutionizing the global 5G landscape. Its mission is to transform the 5G system into the world's largest distributed radar network, harnessing this technology for consumer and commercial applications. By integrating advanced AI and radar technology with 5G networks, Tiami Networks aims to create smarter, safer, and more efficient environments, enhancing connectivity and data analysis capabilities across various sectors. Our commitment to innovation positions us at the forefront of the next wave of technological advancements, poised to redefine the future of communication and environmental intelligence.

Connect

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