

# A complete lidar solution for actuation and analytics

Utilizing the power of Ouster's 3D digital lidars and AI-enabled perception software, Ouster BlueCity provides traffic actuation, safety analytics and V2X integration in one system to enhance traffic operations and multimodal safety.

## Traffic management

- + Multimodal traffic actuation
- + Signal performance measures
- + Traffic digital twin
- + 1-2 lidar sensor system per intersection

## Road user safety

- + Surrogate safety analytics
- + Pedestrian detection & warning
- + V2X & connected vehicles
- + No PII data collected

Data-driven approach to road safety



# How does Ouster BlueCity work?

Ouster BlueCity sets a new standard for intelligent traffic monitoring, accurately detecting, classifying, and tracking vehicles and pedestrians using 3D data from Ouster's digital lidars. Engineered for reliability, it delivers real-time insights even in the most challenging lighting and weather conditions. With a fast, non-invasive installation, it unlocks rich, 24/7 safety analytics through an intuitive web-based dashboard. These powerful insights are designed to transform traffic management—optimizing efficiency, enhancing road safety, and driving progress towards Vision Zero goals.

## ACTUATION

3D lidar sensors and edge AI captures traffic data for multimodal traffic actuation, improving efficiency and reducing congestion:

- + Seamless integration with common traffic controllers (NTCIP and SDLC)
- + Create unlimited virtual loops
- + Control signaling based on vehicle, bicyclist, & pedestrian movement
- + Non-intrusive installation
- + IP68 & IP69K certified
- + Reliable in adverse weather & conditions

## ANALYTICS

Cloud-based analytics platform provides monitoring and visualization in real-time, delivering instant insight for traffic management and safety:

- + Multimodal traffic volume & speed
- + Web-based configuration tool
- + ATSPM (Automated Traffic Signal Performance Measure)
- + Surrogate safety analysis
- + Conflict analysis & Post Encroachment Time
- + Red light runners & jaywalking
- + Wrong-way driving



## BlueCity



Sensor(s) and Brackets

+



Edge Processor

+



Data Analytics Platform

## Why Ouster BlueCity?

### Lower cost

- + 1-2 sensor intersection technology for actuation, analytics & V2X
- + Non-invasive & fast installation
- + Lower maintenance costs

### Higher accuracy

- + Reliable data in adverse weather & lighting
- + Long range & full intersection coverage
- + 3D multimodal detection, classification & tracking

### User friendly

- + All-in-one solution
- + Intuitive web-based configuration tool
- + 24/7 data analytics
- + Download & playback events

