OUSTER

BlueCity

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 traffiic 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

Data-driven approach to road safety

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

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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:

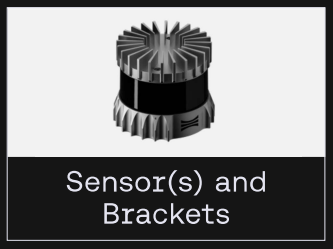
+ Seamless integration with common traffic controllers (NTCIP and SDLC)
+ Create ulimited virtual loops
+ Control signaling based on vehicle, bicyclist, & pedestrian movement
+ Non-intrusive installation
+ IP68 & IP69K certified
+ Reliable in adverse weather & conditions

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

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