

Ouster Blue City for SMART Grant Program

A proven SMART Grant lidar solution with V2X compatibility for traffic operations, planning and road safety, including near misses

Utilizing the power of Ouster's digital lidar, Blue City is a turnkey solution that provides real-time, on-demand traffic data to maximize efficiency and improve safety. With help from Ouster's team of ITS specialists, you can leverage SMART Grant funding to implement day one safety enhancements.

Ouster Blue City For Road User Safety

- + Multimodal traffic actuation
- + Surrogate safety analytics
- + Signal performance measures
- + Pedestrian detection & warning
- + V2X & connected vehicles
- + Real-time traffic digital twin

+ With Buy America(n) certified lidars

SMART Grant Lidar Funding Initiatives:

- + Coordinated Automation
- + Connected Vehicles
- + Intelligent, Sensor-Based Infrastructure
- + System Integration
- + Smart Technology Traffic Signals



How does Blue City work?

Blue City accurately detects, classifies and tracks moving vehicles and people using 3D data from Ouster's digital lidars installed on your intersection or road. It performs reliably in real-time and under the most adverse lighting and weather conditions. Following a fast and simple installation of our lidars, you'll have access to rich lidar data analytics 24/7 through our web-based management console. These analytics have been designed to help improve the efficiency of traffic infrastructure and road user safety, while working towards vision zero.

ACTUATION

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

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

DATA ANALYTICS

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

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

BlueCity



Sensor(s) and Brackets



Edge Processor



Data Analytics Platform



Why Blue City?

Lower cost

- + Single sensor technology for traffic operation
- + Non-invasive & simple installation
- + Lower maintenance cost



Higher accuracy

- + Reliable data in all weather & lighting conditions
- + Diameter detection range: 100-200m/328ft-656ft based on sensor & detection classification
- + 3D object detection & classification



User friendly

- + All-in-one solution
- + Web-based configuration tool
- + 24/7 data analytics

