

SensaVision™ Perception Software

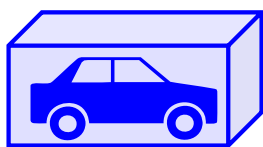
Sensagrate's state-of-the-art perception software processes LiDAR and camera sensor data into unique data outputs. The perception data can improve traffic operations and management, transportation safety, and mobility applications. Other industry applications can be security, smart buildings, airports, smart parking, and smart campuses.

SensaVision provides object detection, classification, and tracking vehicles, pedestrians (people), and cyclists. The software comes with a simple GUI interface for setting up and configuring event management zones and polylines and an easy plug and play to set up your deployment within minutes.

The software runs on a high computer processing GPU-based operating system. Implement the computer vision software using the SensaVision IoT edge device or your own IoT edge device, laptop, cloud, or desktop operating systems.

To advance our technology, we continue to improve our deep learning model to provide high accuracy detection of multiple objects and go through field testing and validation. detection of multiple objects, and go through field testing and validation.

Key Features



Object Detection,
Classification and
Tracking



Simple GUI
Interface



Easy Plug and
Play Setup

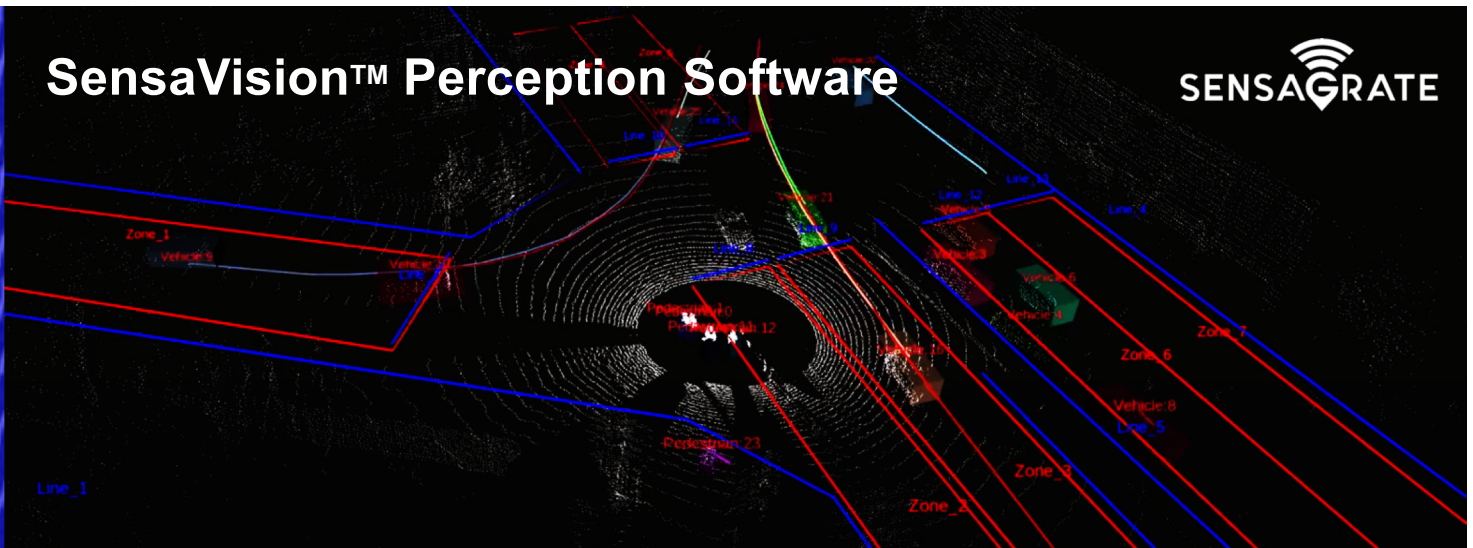


Unique Data
Output



Location Based
Data

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How It Works

Detection, Classification, & Tracking

SensaVision performs object detection, classification, and tracking of multiple objects. The software processes raw 3D LiDAR point cloud data to valuable data to integrate into applications.

Classification Types

Current classifications include car and pedestrian, cyclist, semi-truck, truck, van, bus, motorcycle, scooter, and e-scooter.

GUI Interface

Easy Setup & Configuration

Set up based on roadway type, captures GPS location, configures different transportation and traffic zones and polyline types for data analysis.

Plug and Play

Integration

The LiDAR and camera comes configured to easily plug and play with our IoT edge device or integrate with your hardware operating system.

Supported Hardware

The SensaVision perception software runs on NVIDIA's GPU architecture.

Data Output

Data Configuration

2D and 3D data to understand the movement and engagement of mobility and non-mobility objects. Setup event zones to identify unique data and risks.

Data Type

SensaVision provides data in the formats of counts to provide descriptive and predictive analytics and track for velocity, near-miss collisions, collisions, and other use cases.

API

Description of the software API explains all data types and functions, header files for easy access for software integration system functionality.

Location Based Data

Location Specific Data

The x, y, z coordinates are converted into latitude and longitude GPS coordinate location-specific data by object classification with tracking data.