

Wireless Traffic Detection

High Resolution Traffic Detection for Top Quality Research

Decagon traffic sensors provide superior data quality at a reasonable cost and are not labor intensive. These are the first research-grade sensors designed specifically to fit within academic research budgets.



Wireless Data Reporting

All deployed sensors communicate wirelessly to a base station located on the side of the road or intersection. When data needs to be collected, all sensor data can be retrieved from one point. There is no need to deal with individual sensors for data collection.

Network of Sensors

All sensors in deployment synchronize their internal clock to the base station. It is this synchronization that allows accurate vehicle tracking.

Quick Installation

Sensors install easily and quickly in the road surface using Butyl tape or concrete anchors. The amount of time required to close a lane to install a sensor is minimal.

Remote Programming

Configuration information can be sent to the base station, and the base station configures each sensor in the deployment. Direct interaction with an individual sensor is not required.

Research Grade

Data collected from the base station includes the individual sensor name, the time of a vehicle detection, and the occupancy time. This data is downloaded from the base station and sorted by time. Researchers can use this raw data to perform traffic analysis based on where the sensors were installed in the deployment.

Wireless Charging

Sensors are recharged using inductive charging. There is no need to remove or replace batteries. The sensor can simply be placed on a compatible wireless charging pad.



we measure the world

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