



Delaware Department of Transportation (DeIDOT) Radar Traffic Detector System

Wavetronix SmartSensor



What it Does

- Detects vehicles by lane.
- Provides real-time traffic volume, speed and delay to the Transportation Management Center.
- Classifies vehicles by length.

How it Helps

- Each detector is positioned adjacent to the road, non-intrusive to traffic.
- Radar traffic detectors are one source of real-time data provided on DeIDOT's public website and smartphone app.
- Changes in real-time data indicate lane blockages or other roadway issues.
- Data is also used in planning studies and for design.

How it Works

- The radar traffic detector collects the following data:
 - Timestamp of each passing vehicle
 - Total number of vehicles by lane
 - Vehicle speeds (miles per hour)
 - Vehicle lengths (short, medium, long)
- Where radar detectors are spaced suitably, DeIDOT uses the speed data to calculate travel time and delay.
- Vehicle length measurements are correlated to the Federal Highway Administration vehicle classification system.
- DeIDOT currently has about 140 detectors installed, and plans to continue growth on freeways and major arterials.

