SMARTSENSOR HD RADAR

TECHNOLOGY FOR SMARTER HIGHWAYS

VPS
HIGHWAYS SOLUTIONS

SMARTSENSOR HD RADAR

Smart traffic depends on accurate, reliable data. SmartSensor HD is the only vehicle detector that provides all the data you need, including per vehicle speeds, vehicle counts, average speed, 85th percentile speed, occupancy and more.

The non obtrusive side fired radar is positioned at the side of the road, capturing highly accurate data. The digital wave radar is the only radar designed from the ground up for traffic applications. Other features include dual radar, because two radar beams are better than one.
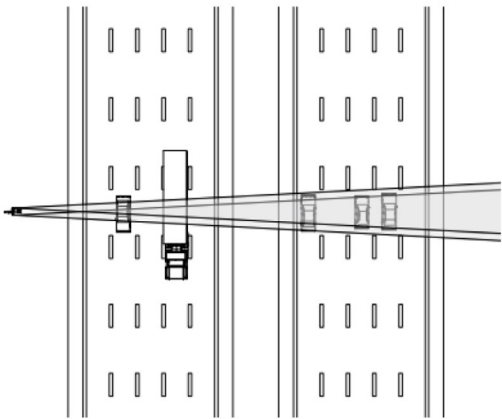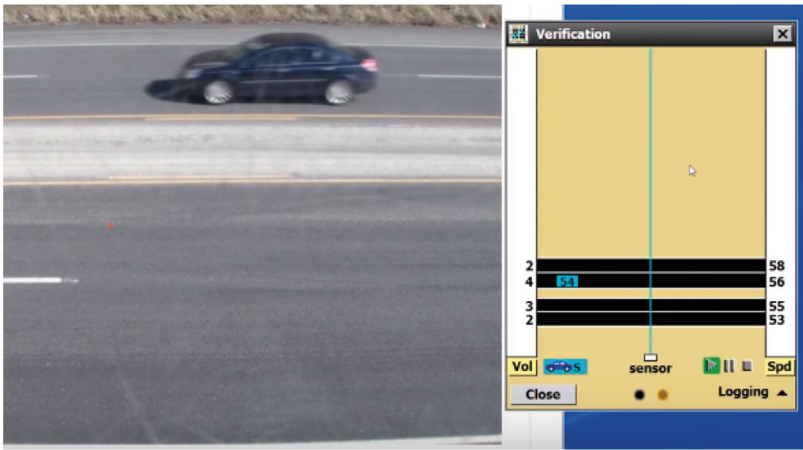
This can be mounted on to the VPS Smart Tower for long or short term duration.

Key Benefits

- Non obtrusive Side fired radar (positioned at the side of the road)
- High Definition Radar (accurate capture of true data)
- Digital Wave Radar (the only radar designed from the ground up for traffic applications)
- Dual Radar (two radar beams are better than one. Twice as good)
- True Coverage (why use multiple devices when one works better?)

Key Features

- Per vehicle speeds
- Vehicle counts
- Vehicle classification (Length based)
- Average speed
- 85th percentile speed
- Headway
- Gap

SSHD DATA SHEET

Key Features

- Detects up to 22 lanes of traffic
- Reports the speed, length and classification of individual vehicles
- Works over barriers, guardrails, medians and gores
- Accurately detects lane-changing vehicles
- Patented Digital Wave Radar II™ technology
- Patented auto-configuration process
- Features Flash upgradeable

- Integrates with Wavetronix Click products
- Requires no tweaking or tuning
- All-weather, all-condition performance
- No performance variance due to temperature
- Flash memory protects data storage
- Automated manufacturing process
- Easy to install and operate
- Remotely accessible for easy management

Measured Quantities

- Per-lane interval data: volume, average speed, occupancy, classification counts, 85th percentile speed, average headway, average gap, speed bin counts, direction counts
- Classification bins: 8
- Interval speed bins: 15
- Per-vehicle data: speed, length, class, lane assignment, range
- Presence data in 22 lanes Detectable Area Number of lanes: up to 22
- Detection range: 6 to 250 ft. (1.8 m to 76.2 m)
- Any lane spacing is supported
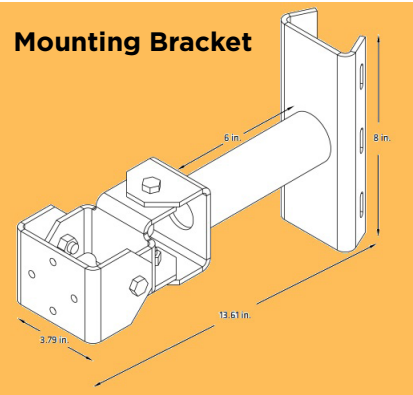- Detection over barriers is supported

Data Protocols

- Protocol support for interval, event, presence
- Data protocol document available free of charge
- Interval data for each lane:
  - Sensor ID
  - Timestamp
  - Volume
  - Average speed
  - Occupancy
  - Classification counts
  - Speed bin counts
  - Direction counts
  - Average headway
  - Average gap
  - 85th percentile speed
- Presence data for each lane:
  - Sensor ID
  - Per-lane presence

Physical Properties

- PWeight: 4.2 lbs. (1.9 kg)
- Physical dimensions: 13.2 in. Ð 10.6 in. 3.3 in. (33.5 cm x 26.9 cm x 8.4 cm)
- Resistant to corrosion, fungus, moisture deterioration, and ultraviolet rays
- Enclosure: Lexan polycarbonate
- Outdoor weatherable: UL 746C, IP66 rated
- Watertight by NEMA 250 standard
- Withstands 5-ft. (1.5-m) drop
- Housing withstands wind loads exceeding 120 mph
- Connector: MIL-DTL-26482
- Event data for each detection:
  - Sensor ID
  - Timestamp
  - Lane assignment
  - Speed
  - Length
  - Class
  - Range

Power

- Power consumption: 7.6 W
- Supply voltage: 10–28 VDC

Mounting Bracket

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PROPERTY SOLUTIONS — GUARDIAN SERVICES — SITE SECURITY — GROUNDS SERVICES — GLAZING, DOORS & LOCKS