

Wavetronix SmartSensors Utilizing Digital Wave Radar for accurate Counts, Speeds, Sizes of Vehicles.

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The SmartSensor Detects up to 10 lanes of traffic. It Reports the speed, length and classification of individual vehicles. It Works over barriers, guardrails, medians and gores.

Digital Wave Radar is Wavetronix' patented process for digitally generating a radar signal. This process actively prevents the signal from slipping out of band over time or because of changes in temperature. Analog signals can shift so much that they are no longer compliant with FCC regulations; this shift reduces accuracy and requires frequent reconfiguration. However, Digital Wave Radar produces a stable signal that continues to perform accurately over time without being reconfigured. This kind of stability is essential for the generation of high definition radar

Non-Intrusive Installation - Portability

SmartSensors install above the ground without affecting traffic flow. Since the sensors install at roadside, they do not require lane closures common with in-road detectors, and this, in turn, reduces the risk of injury or death to the workers installing the sensors. Additionally, SmartSensor is easier to maintain than in-road detectors, and can quickly be replaced or reconfigured to accommodate roadway changes. Smartsensors can easily be moved and quickly reconfigured to different road geometries making them ideal for portable count stations mounted on poles, trailers, solar applications, etc.

All of the technologies and features that power our SmartSensor devices have been created and manufactured by us, and they've been designed specifically for traffic detection applications. Each sensor is extensively tested, both in-house and by reputable third parties, and their performance has been proven in numerous published studies.

True High Definition

Wavetronix is the only manufacturer of radar-based traffic detection devices that offers true high definition radar. Like HD TV, HD radar creates a sharper, clearer image, resulting in greater accuracy.

Some devices have tried to mimic HD radar by increasing their sampling rate, or pixels per lane, without increasing bandwidth. This has led to moderate improvements in performance but still cannot match the accuracy of Wavetronix' true high definition.

All Wavetronix SmartSensors feature a user-friendly graphic interface for quick and easy sensor configurations. The interface's intuitive design includes point-and-click operations that can be learned very quickly. Real-time graphic vehicle representations greatly simplify the configuration process. The GUI software runs on various Windows platforms, including Windows Mobile so that in-field configurations can be performed using a handheld computer.