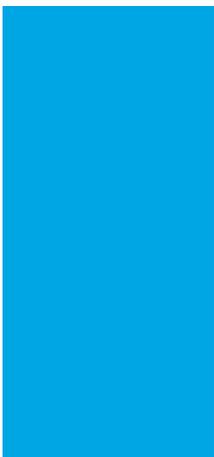




ImageSensing  
systems



RTMS Solutions

**Detection solutions to fit your city's  
needs.**



## Keeping your daily commute free of congestion - and maintenance.

Behind the scenes in cities all over the world, RTMS radar detection solutions are working hard to ensure smooth traffic flow and prevent road accidents. From the wide suburban arterials, to the rapidly moving highways, to the busiest downtown intersections, our RTMS solutions help to keep the daily commute free of congestion - and maintenance.

### Our comprehensive product portfolio is designed to offer turn-key solutions, including:

- Traffic counting solution
- Real-time collection of traffic measurement data
- Traffic monitoring solutions
- Work zone and other safety solutions
- System detection solutions
- Ramp metering solutions
- Mid-block detection solutions
- Comprehensive wireless communication solutions
- Traffic data analysis system
- Incident detection and travel-time information system



### RTMS Sx-300

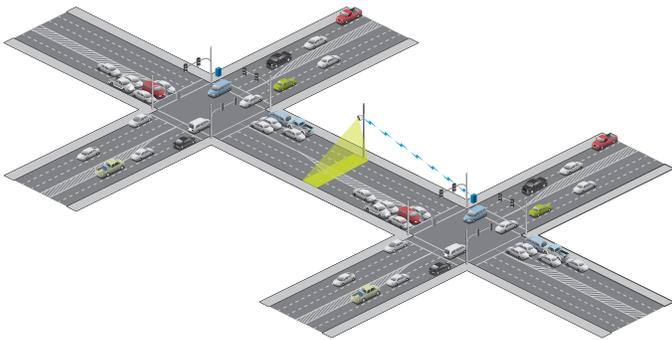
The RTMS Sx-300 is a small roadside pole-mounted radar, operating in the microwave band. Simultaneously, the sensor provides per-lane presence as well as volume, occupancy, speed and classification information in up to 12 user-defined detection zones. Output information is provided to existing controllers via contact closure and to other computing systems by serial or TCP/IP communication port. A single radar can replace multiple inductive loop detectors.

The Sx-300's all-in-one concept combines a high resolution radar and a variety of communications options all in a single enclosure. This sleek cabinet free detection station is simple to integrate into any system whether urban signal control or highway traffic management.

#### Key Benefits:

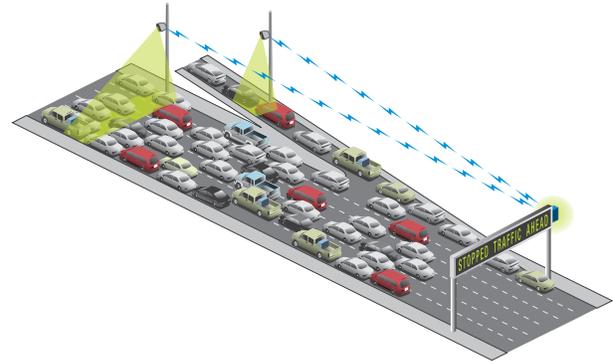
- Fast, safe installation, on existing road-side poles, with no traffic disruptions
- Compatible with all RTMS integrated solutions including detection station, counting, urban traffic control, event reporting, data collection
- Highly flexible: suitable for any road and pole type, with various built-in communication options, including contact pairs and TCP/IP
- Zero Setback™ feature means any pole is suitable
- Low power requirement allows low cost solar power operation





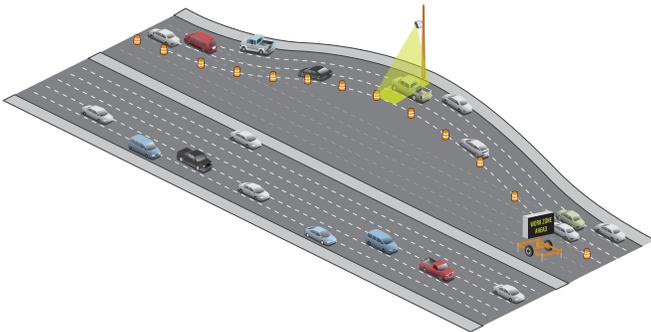
## Mid-Block Detection Solution

The mid-block detection solution communicates wirelessly with the intersection cabinet and provides the controller with accurate information to make precise decisions to keep traffic flowing. This solution provides accurate speed reporting to zero miles per hour with ease.



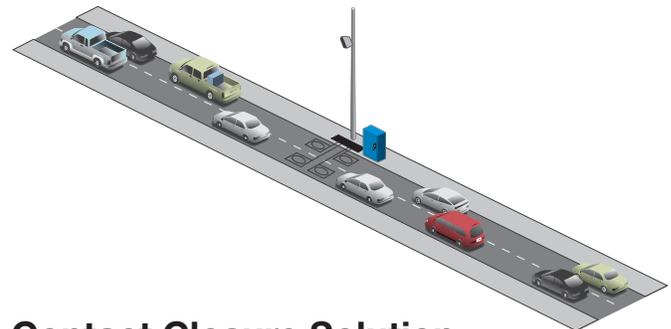
## Event Warning Solution

The event warning solution works at the junctures between highways and urban streets to detect long queue spill-back at off-ramps, toll booths or select intersections. It can communicate with signal controllers to flush out queues, activate flashers to warn approaching drivers, or send an alert to the TOC.



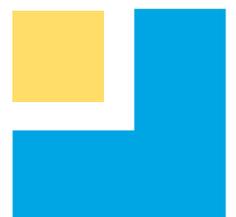
## Work Zone Solution

The work zone solution is extremely flexible, quick to install and is easily configurable for temporary installations. It can communicate with signal controllers to flush out queues, activate flashers to warn approaching drivers, or communicate with a variable message sign.



## Contact Closure Solution

The contact closure solution is the perfect alternative to in-ground loop detectors.





## RTMS Solutions

# All-in-One radar solutions for traffic management



## Solar Solution

The low power consumption of the RTMS sensor is ideal for solar options. Solar power solutions are designed for the geographic location to provide optimal power for continuous operation year round. Best of all, Sx-300 is renowned for long-term worry-free reliability.

### Key Benefits:

- Easy installation in remote or rural locations
- Fast, safe installation, on existing road-side poles, with no traffic disruptions
- Highly flexible: suitable for any road and pole type, with various built-in communication options, including contact pairs and TCP/IP
- Zero Setback™ feature means any pole is suitable
- Low power requirement allows low cost solar power operation



### Solar Components:

- RTMS Traffic Detector
- RTMS cable
- Solar panel
- Pole mount and hardware
- Solar output cable
- Cabinet
- Complete electronic assembly
- Battery
- Cellular communications





## RTMS Communication Solutions

The RTMS Sx-300 has the ability to converse simply via various wireless options, which makes for easy and quick solutions.

### Wireless Serial

A high performance wireless data transceiver with long-range connectivity at high bandwidths for robust and secure communication from the RTMS Sx-300 to the traffic management center.

#### Features:

- License-free operation
- Data throughput up to 115.2 Kbaud
- Long range operation (60+ miles)
- Full duplex communications
- Ability to operate in different modes including base station, repeater, slave and slave/repeater
- Low power consumption
- Network-wide diagnostics
- Rugged industrial enclosure

### Wireless Contract Closure

The wireless contact closure radio delivers a complete bi-directional wireless I/O capability for the RTMS Sx-300.

#### Features:

- “Best-in-Class” RF performance
- Robust on-off control and monitoring of multiple events
- Eight (8) dry contact/low voltage input channels
- Eight (8) open collector output channels
- 900 MHz or 2.4 GHz license free operation
- Point-to-point, point-to multipoint and multi point to-multi point operation

### Cellular

Cellular communication is available in 3G and 4G versions which provides reliable connectivity that ensures your RTMS Sx-300 stays connected to the network.

#### Features:

- Intelligence that makes them quick to deploy and simple to manage
- Reliable connectivity that ensures they stay connected to the network
- Rugged design that lasts for years in the harshest environments
- Application framework that makes them easy to program
- Integration with AirLink® Management
- Service for building innovative applications and services





**RTMS Solutions**

## All-in-One radar solutions for traffic management

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### Stand-alone Bluetooth Sensor

The DeepBlue Sensor D-model by trafficnow® - a unique dual channel Bluetooth® sensor deploying two powerful antennas for real side fire operation. Specially designed antennas for extreme sensitivity, longer range and faster scanning; for enhanced detection of fast moving vehicles in up to 12 lanes.

A multi-lane, auto-configured, easy-to-install side-fire Sensor that detects the Bluetooth® signals from vehicles; from hands free sets, mobile telephones and navigation systems.

The ideal sensor for getting online travel time information and origin/destination information for improved infrastructure planning.



#### Key Benefits:

- Side-fire; zero set-back
- Field proven technology
- Cost-effective solution
- Easy to install and configure
- Each installed unit has the flexibility of performing a variety of tasks

#### Features:

- Automatic detector configuration
- Multi-lane, side-fire sensor
- Vehicle detection and tracking
- Recognition of unique identification for white list applications
- Incident detection/travel time
- Non-volatile memory data storage
- Self test of power-up (LED indicator)
- Low power consumption
- Fast, reliable and secure data transmission.



## Metro Traffic Suite

Metro Traffic Suite provides real-time traffic measurement and data collection over a wide area. An enterprise-level system capable of monitoring traffic in hundreds of locations. Traffic is measured by multiple RTMS data collection stations in a specific area. Data is then typically sent by TCP/IP communications and cost-effectively transmitted to a Traffic Operations Center (TOC) for storage in a real time database.

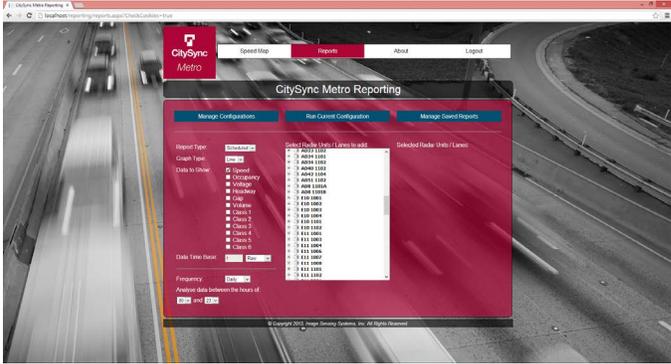
Metro Traffic Suite supports multiple devices providing an all in one solutions for traffic management. These sensors feed real-time data into the system and provide transportation professionals with more precise and accurate information. Metro's reporting feature generates useful analytics, graphs and tables to give traffic management professionals a clear precise picture of their transportation infrastructure.

### Features:

- Data collection/storage for accurate measurements of volume, occupancy, classification and speed on 8 separate lanes per station
- A scalable and movable system that expands by adding sensors
- Real-time SQL database stores data and network sensor configuration from hundreds of stations
- TCP/IP communications means a simplified, affordable network
- Simple software for SQL database interface, configuration and diagnosis as well as speed map and travel time information.
- Supports multiple sensor types
- Report generation includes data rich analytics



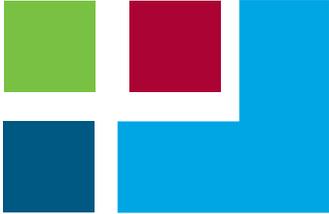
Speed Map



Metro Reporting

### Types of Data Collected

- Volume
- Speed
- Occupancy
- Gap
- Headway
- Classification
- Voltage





## Highways Have Help

If a city can be likened to an organism, then its streets and highways would be an extensive network of arteries through which its inhabitants flow. All healthy systems require a regulating organ, and ISS is essentially that. We specialize in integrated systems that ensure proper road performance and incident prevention.

Behind the scenes in cities all over the world, ISS works hard to prevent road accidents and ensure smooth traffic flow. Flowing through the air, unseen by the naked eye, streams of data inform traffic lights and operators at control centers to keep drivers safe and moving.

ISS covers the entire city, from the wide suburban streets to the rapid highways to the busy urban intersections. The typical family will feel secure at the sight of a safety message being updated in real time, knowing they are in good care. The police officer who normally conducts intersection traffic will be free to devote his time toward other duties. The white-collar worker rejoices in the face that daily commute will be congestion-free and headache-free.



### CONTACTS

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