

SCATS

Adaptive Traffic Control System

SCATS® is the most proven adaptive system on the market that optimizes cycle length, splits and offsets on a **cycle-by-cycle basis** utilizing real-time detection. For more than 30 years, SCATS has repeatedly provided measured operations improvements to travel time, stops and delay.

Proven Results

In the United States, several independent studies have shown that based on reduced emissions alone, system payback has been obtained within 12 months from installation.

Menlo Park, California

- Delay reduced by up to 70%
- Travel time reduced by up to 25%

Santa Rosa, California

- Average increase in speed of 49%
- Average reduction in travel time of 32%

Road Commission for Oakland County, Michigan

- Off peak travel time reduced by up to 31%
- Peak period travel time reduced by up to 8%

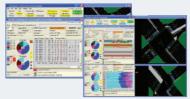
SCATS Installations in the United States



Gresham, Oregon

- Up to 19% reduction in peak-period peak direction travel time
- Up to 30% reduction in off-peak travel times

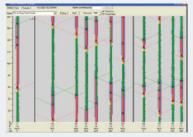




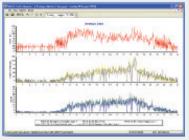
Real-Time Information



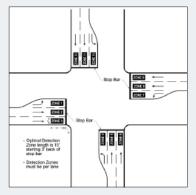
Real-Time Alarm Monitoring



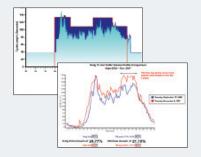
Real-Time Time/Space Diagrams



Historical Reports



Cost Effectiveness



Immediate and Long-Term Benefits

SCATS Features

Adaptability

SCATS allows for better control of unpredictable traffic patterns. Even consecutive Sundays can experience vastly different traffic patterns, and SCATS provides you the ability to accommodate these variations without manual intervention.

Real-Time Information

SCATS provides real-time information for both advanced operations and maintenance monitoring. This includes detection, timing, saturation, status, communication and coordination information.

Real-Time Alarm Monitoring

SCATS provides real-time alarm monitoring,

including communications, detection, user access and flash status alarms. The highly intuitive detection alarm monitoring specifies the exact lane with the detection issue, and whether that issue is a constant call or chattering detector -- all from the central GUI.

Real-Time Time/Space Diagrams

SCATS provides user-configurable real-time time/space diagrams. The diagrams convey easy-to-view real-time status of the corridors and include detection actuations for monitoring platoon arrivals, as well as theoretical travel time information. This also provides an efficient and easy-to-use method for real-time fine tuning of system coordination aspects.

Historical Reports

On a daily basis, SCATS collects and saves information for future use and historical reporting. This includes timing, detection actuation, lane saturation, lane volume, coordination and adaptive trigger information. This information can then be used for future planning purposes or for reviewing past operations.

Cost Effectiveness

SCATS reduces overall operational costs as it is self-calibrating and does not require on-going traffic counts or manual development of timing plans. In addition, SCATS is an off-the-shelf software package that utilizes contemporary hardware and the Windows® operating environment. SCATS adaptive control, unlike other adaptive control systems, is also a standalone system that requires no separate underlying control system.

SCATS Optimization

SCATS optimizations are based on the collection of saturation information at the stop bar **eliminating** the need for costly advanced or downstream detection.

This provides optimal data collection for cycle length and split optimizations as SCATS monitors the saturation of every lane, every cycle. This detection approach also provides inherent detection redundancy as a detector loss affects only one lane at an intersection. This allows SCATS to continue to collect information and perform optimizations on the remaining intersection detectors.

Immediate and Long-Term Benefits

SCATS provides both immediate and long-term benefits through its real-time adaptive operations. Benefits include reduction in overall delay during the shoulders of the peaks through the use of smaller, more optimal cycle lengths, as well as its ability to adapt to traffic changes (both increases and decreases) over long periods of time without manual intervention. SCATS real-time detection collection features allow it to always provide optimal timings to all movements even when unexpected changes occur.

SCATS Installations																				
Existing SCATS Uses	Meadowlands, NJ	Pasadena, CA	San Jose, CA	Hayward, CA	Alabama, DOT	White Plains, NY	Portland, OR	Washington County, OR	Bellevue, WA	Beaverton, OR	Redmond, OR	Santa Rosa, CA	Gresham, OR	Park City, UT	Cobb County, GA	Pasco County, FL	Menlo Park, CA	Oakland County, MI	East Brunswick, NJ	Cranberry, NJ
Congested/Bottleneck Areas	•		•	•	•	•	•		•			•	•		•	•	•	•	•	•
Reduced Capacity Areas	•		•	•	•		•	•	•	•		•	•		•	•	•	•	•	•
Rapidly Developing Areas	•		•		•				•					•	•	•		•	•	
Schools	•		•		•				•		•	•						•		
Shopping Areas	•	•	•	•	•	•		•	•					•	•		•	•	•	•
Construction				•								•								
High Capacity Roadways	•		•		•	•	•	•	•	•			•		•	•	•	•	•	•
Special Events	•	•	•	•	•	•			•		•			•	•			•		
Recreation Traffic	•	•	•	•	•	•		•	•		•		•	•		•		•		
Economy Fluctuations			•						•		•							•		
Freeway Traffic	•		•		•			•	•	•				•	•			•	•	•
Light Rail Areas		•						•		•										





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Cobb County, Georgia Adaptive Traffic Control System — SCATS

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