CUBIC™

Trafficware®

Improve Travel Time & Reduce Delays

Improve Safety

Reduce Harmful Emissions

Save Fuel

SynchroGreen®

SynchroGreen by Trafficware is the industry's premier Real-time Adaptive Traffic Signal Control Technology. Using optimized signal timing and enhanced safety features, SynchroGreen maximizes the use of available roadway capacity. Our field-proven technology reduces travel time, delays, and stops for all road users while simultaneously decreasing fuel consumption and emissions.

SynchroGreen will allocate time to each vehicle and pedestrian phase in real time, without any additional modules, keeping your city moving while meeting all National Standards requirements.

SynchroGreen takes a holistic approach when optimizing traffic signals by considering sidestreet and pedestrian traffic, in addition to mainline traffic.

How Does SynchroGreen Work?

SynchroGreen optimizes signal timings based on demand. If more vehicles demand service for a particular movement, then more time is allocated; if less time is required, less time is allocated. Secondly, SynchroGreen promotes traffic signal coordination and synchronization. SynchroGreen reduces vehicle stops and travel time by analyzing when vehicles arrive at the intersection and increasing the probability that the traffic signals will be green when they arrive.

Operating Features

» The SynchroGreen management information base resides within the signal controller.

» The traffic signal controller remains in charge of the intersection.

» The signal cabinet does not require proprietary hardware or rewiring.

» The agency can choose whether SynchroGreen is hosted on a central server or in a virtual/cloud-based environment.

KEY FEATURES

REAL-TIME ADAPTIVE SIGNAL CONTROL

» Adjusts traffic signal timing plans in realtime based on current traffic demands.

» Optimizes signal timing (cycle, offset and split) for normal traffic flow or unpredictable surges due to accidents, road closures, or special events.

SMART SYSTEM & EASY SETUP

» Designed for easy startup and reliability.

» Accessible from a web-based interface or Windows application.

» Returns traffic controllers to normal time-of-day operation if the system is shut down.

INTEGRATES WITH SYNCHRO & SIMTRAFFIC

» Models adaptive traffic control and provides simulation capabilities.

» Calibrates adaptive settings using actual field data.

» Allows users to preview expected results before implementation.