Product Features & Capabilities

Synchro Studio is a robust, easy-to-use traffic signal timing application that helps traffic engineers and transportation planners design, model, optimize, simulate, and animate signalized and unsignalized intersections (including roundabouts).

Synchro Studio provides premier applications for traffic analysis, optimization, and simulation. The package combines the modeling capabilities of Synchro signal timing & analysis software, the micro-simulation and animation capabilities of our SimTraffic software, and our three-dimensional viewer, creating the ultimate tool kit for any traffic engineer.

**Synchro Studio 10 includes:**

- **Synchro**
  Design, model, and optimize traffic signal infrastructure.

- **SimTraffic**
  Simulate real-world vehicular and pedestrian traffic scenarios.

- **3D Viewer**
  Convert two dimensional modes from SimTraffic to a 3D Viewer application.

**Supplemental modules:**

- **Warrants**
  Evaluate a network of intersections according to the Manual on Uniform Traffic Control Devices (MUTCD) standards and guidelines for signalization.

- **TripGen**
  Calculate the expected number of trips based on data from the Institute of Transportation Engineer’s (ITE) Trip Generation Manual.

**Why do traffic agencies and consultants use Synchro Studio?**

- Over twenty years of industry use, ensuring the product is tested and proven.
- Provides users with a powerful microsimulation tool.
- Pays for itself after your first traffic signal or traffic analysis project.
- Ease-of-use and adoptability, allowing engineers to analyze traffic operations in days versus weeks.
- Implements the Intersection Capacity Utilization (ICU) Method.

In addition to the traditional focus on vehicular movement, the HCM 6th Edition builds on the multimodalism introduced in the HCM 2010, allowing you to assess the overall transportation experience from the user's perspective. The roundabout methodology includes an updated capacity model, following new FHWA-sponsored research.

Synchro 10's user interface has been updated, introducing a new look and feel with easy-to-use ribbon bar controls. The ribbon bar is organized by task, and designed to help improve efficiency. The ribbon bar is highly customizable to accommodate different working styles.
Additional Software Applications

**TripGen**
TripGen is a simple, easy-to-use tool that calculates trip generation based on ITE’s Trip Generation Manual, editions 8 and 9. The analyst selects the desired independent variable and then calculates driveway volumes by using the rates or equations found in the Trip Generation Manual.

- Project information description and note input fields
- Project Tree that accommodates multiple Alternatives and Phases
- Create Custom trip rates, including pass-by and internal trip rates
- Easily compare number of trips based on average rates vs. equations
- Import calculated number of trips into Synchro’s TIA module
- Flexible reporting options

**Warrants**
Warrants is an easy-to-use product that enables traffic professionals to determine whether a traffic signal is needed for an intersection. Warrants will evaluate an entire network of intersections at once, capturing multiple volume periods for each intersection. Layout and volume information are directly imported from Synchro for easy model setup.

**Support and Maintenance**
With the release of Version 10, a Software Maintenance Agreement is provided to ensure you receive timely support and the latest software updates. Users will have access not only to the current Support Site, but in addition will have unlimited access to Just-In-Time Training Videos, selected webinars, and discounts on face-to-face training classes.

The Just-In-Time Training Videos are aimed at providing users a brief video focused on a particular feature within Synchro or SimTraffic, viewable at any time. Version 10 users will receive discounted access to selected webinars and face-to-face training courses.

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<th>Feature</th>
<th>V7</th>
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