



STISIM Drive® M1000 Research

Product Overview



STISIM Drive® software is a versatile, and expandable virtual reality driving simulation software engine. The STISIM Drive® M1000-R software is engineered to deliver superior simulation performance at a cost-effective price. The software comes with over 90 diverse and ready-to-drive scenarios with assorted driving situations and customizable roadway environments that use an extensive library of roadway objects. The system also allows for client definable data collection.

The STISIM Drive® has an extensive client base supported by more than 1,200 independent peer reviewed publications. The software will enable the client to eliminate the risks of on-road driving, safely evaluate high risk drivers, and achieve objective, accurate and repeatable performance measurements in a cost-effective environment.

All M1000-R systems include the Scenario Definition Language (SDL), software that allows researchers to create custom designed roadway environments and situations.



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Key features of SDL include:

- Allows definition of the visual data base (intersections, vehicles, pedestrians, traffic control devices, buildings, flora and fauna, miscellaneous elements).
- Traffic and pedestrians can be programmed to elicit desired driver behaviors.
- Roadway profile is defined in terms of highway engineering specifications (horizontal and vertical curvature and transitions, cross section slopes).
- More than fifty different events can be called upon to create the driving scenario and add functionality to the roadway environment including events for controlling external hardware.
- Client defined data collection locations and variables.
- Built-in Tasks: Car following, divided attention, simple pedal reaction times.
- Programming experience not required.
- Extensive documentation including examples.
- Extensive collection of roadway objects that can be used with SDL events.
- An optional plugin capability allows a client to add their own functionality to the simulator.



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Features and Benefits

- Created to provide researchers with an easy and effective way to design drives and collect their data.
- Driving is an ecologically valid task.
- Eliminate all the risks associated with on the road driving.
- Measure reaction times, psychomotor functioning, visual perception, divided attention, executive functioning, and more.
- More than 90 ready-to-drive scenarios.
- Interactive and programmable roadway environments.
- STISIM Drive® Scenario Definition Language (SDL):
 - Modify existing or create custom scenarios.
 - Dynamically control events, signal lights, pedestrians, vehicle traffic.
 - Advanced scenario and configuration design.
 - Operator initiated events (Wizard of Oz).
 - Client definable data collection.
 - No programming experience required.
- User selectable driver field of view (135 degrees max)
- Visual replay of previous drives
- Generic international signage
- Left and right side driving, English or Metric units
- Ease of operation and maintenance
- Detailed help files, documentation, and client resources



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Sample Performance Measures

Accident Counts	Vehicle, pedestrian, obstacles, off-road
Brake and Accelerator	Speeding behavior, reaction time, time to collision, tailgating
Steering and Handling	Lane position and deviation, centerline and edge crossings
Driver Compliance/Attention	Signal lights, signs, turning, divided attention
Client Selectable Data	Programmable via Scenario Definition Language (SDL)

System Requirements

Computer	Desktop workstation with high performance NVIDIA graphics card
Operating System	Microsoft Windows®
Driver Displays	Recommend a minimum of 24" LCD
Operator Display	Recommend a minimum 22" LCD



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Steering Wheel and Pedals	Recommend a Logitech® G29 or equivalent
Hardware License Key	Included
Electronic Documentation	Included
Tech Support	First year included
Shipping and Handling	Included within the Continental United States, additional charges may apply for other areas
Installation and Training	Not included
Warranty	1 Year
Software Options	Extended support

The information above outlines general requirements. For further details or inquiries, please contact us by phone or visit our website.



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