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RS 600

OUR MOST ADVANCED RESEARCH DRIVING SIMULATOR

The RS 600 is a fully-immersive, high fidelity driving simulation system designed for use in automotive design research, traffic safety studies and a wide range of health and human sciences research. State-of-the-art RS 600 hardware is combined with the industry's most advanced scenario authoring tools to provide an ideal environment for subject matter experts to create and use purpose-built driving scenarios. Researchers can create their ideal driving laboratory conditions by using our extensive library of roads, intersections, vehicles, traffic patterns and landscapes, then scripting specific actions in order to collect the desired data. See what the University of New Hampshire is doing with the RS 600.



Used for innovative research in universities and VA hospitals





"The DriveSafety RS 600 enables us to explore a wider array of studies and conduct them in a more efficient and controllable environment. Because the experience is so realistic for participants, we can get an accurate read on the impact of various stimuli inside the simulation."

-DR. MATTHEW RIZZO
Professor in the Department of Neurology,
University of Iowa's Carver College of Medicine

A partial Ford Focus cab with full-width front interior, standard driver controls and active instrumentation presents participants with an immersive driving experiences as they travel through realistic virtual roadway environments. Interactive traffic is simulated using autonomous "smart" models as well as scripted behavior models and triggered events.

Rapid Rendering

The RS-600 renders visual imagery at 60 frames per second on a sophisticated out-the-window visual display with horizontal field-of-view ranging from 180 degrees to 360 degrees. It also includes three independently configurable rear view mirrors.

Q-Motion

The Q-Motion platform provides inertial onset cues for braking and acceleration. Tactile and proprioceptive feedback cues are provided to the driver via torque feedback in the steering wheel and vibration transducers mounted under the driver's seat and in the steering system. The simulator's digital sound system includes two wide range speakers surrounding the driver and a powered subwoofer behind the cab's firewall.

What's Included:

- Multi-channel audio/visual system with 180°, 240°, 300° and 360° wraparound display options
- Full-width automobile cab with windshield
- Dash and instrumentation
- Driver and passenger seats
- Center console
- Real-time motion simulation via DriveSafety's Q-Motion™ platform
- HyperDrive Authoring Suite for flexible scenario creation and customizable designs
- True-to-life driving experience

- High-fidelity vehicle dynamics and handling models
- Collision detection
- Pitch and longitudinal motion with Q-Motion™
- Price-to-performance ratio unmatched for a simulator this extensive and powerful
- Sharable data and driving scenarios with other researchers
- Installation Services - On-site installation by DriveSafety technicians
- Training - Conducted at customer location or at a DriveSafety location
- Support and Maintenance - Includes phone and email support plus software upgrades

Specs

- Dimensions: 14' L x 9' W x 9' H
- Weight: 750 lbs

DriveSafety Hyperdrive Authoring Suite

DriveSafety's RS research driving simulators are combined with our own HyperDrive Authoring Suite, an advanced scenario-authoring tool. The suite allows researchers to create custom driving scenarios leveraging an extensive library of roads, intersections, cultural surroundings, traffic vehicles, pedestrians and other elements along with flexible scripting capabilities. The system also includes powerful real-time data collection and performance monitoring functions users can customize to suit the specific needs of their studies.

FOR MORE INFORMATION, PLEASE CONTACT
DRIVESAFETY AT: info@drivesafety.com