

3D visual interactive simulation technology

New award-winning software enables users to easily build and populate their own 3D environments and develop diverse driving scenarios, making it an excellent solution for transport planning



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FORUM8's award-winning software UC-win/Road is an excellent solution for urban and transport planning and design projects, either on its own, or in conjunction with third-party 3D engineering design tools and micro-simulation applications.

Due to the tremendously high visual quality of the software, its ease of use and high level of interactivity, UC-win/Road powers many different drive simulators (DS) in use throughout the world. From VR-Drive (the classroom-based road safety and drive simulator for young people), to sophisticated professional research systems used by such corporations as Toyota and Subaru.

FORUM8 driving simulators not only benefit from UC-win/Road's own embedded and fully functional vehicle-dynamics software, they also benefit from being able to incorporate the power of the market-leading CarSim math model when used, for example, in advanced driver assistance systems (ADAS).

FORUM8's VR-Drive Pro is the latest system to incorporate UC-win/Road and CarSim along with a software link to SENSO-Wheel from German steering rack specialist SENSO-Drive.

VR-Drive Pro provides particular benefits to the professional driver training market, as well as academic and research institutions that require a cost-effective and



LEFT: UC-win/Road software powers many drive simulators around the world

highly functional, professional DS system. UC-win/Road enables users to build and populate their own 3D environments, as well as being able to develop diverse driving scenarios, quickly and easily.

The combination of SENSO-Wheel and CarSim facilitates a highly realistic driving experience inside a highly visual UC-win/Road virtual 3D environment. Haptic technology provides realistic feedback to the driver, along with the ability to calibrate the rack for friction, damping, spring rate, and wheel rotation.

CarSim, developed by Mechanical Simulation Corp, can be used to analyze and evaluate the physical feedback of passenger and small commercial vehicles in various

driving and environmental conditions. The equations of motion in the CarSim math models are valid for full nonlinear 3D motions of rigid bodies. The major kinematics and compliance effects of the suspensions and steering systems are specified with properties that can be measured directly. Details of the linkages and gears in the suspensions and steering systems are not needed, reducing the amount of information required to obtain accurate predictions. More information is available at www.carsim.com.

The power behind all these Drive Simulators, and the technology that makes them so effective in so many different professional environments and under

as many different driving conditions as experienced in reality, is FORUM8's UC-win/Road software.

This 3D visual-interactive simulation system enables users to build accurate representations of the real world in 3D. Users can dynamically manipulate 3D space, import and edit 2D and 3D CAD data, GIS data, aerial ortho photography, and digital terrain Models. They can build and texture block models; automatically build roads, tunnels, and bridges; view multiple design alternatives in real-time; and mimic the weather and sunlight, based on location and time of year. Users can also visualize and edit intelligent traffic in ways previously not possible, and much more... <