

FORUM 8

Clinical Drive Simulator for Occupational Therapy

Forum8, a 3D virtual reality software and drive simulator company, proposes a compact drive simulator optimized for use in clinical settings.

The DriveSafety™ CDS-250W Cab is designed as a clinical tool for occupational and physical therapy, as well as driver rehabilitation.

The CDS-250W cab provides a high-quality, authentic automotive control environment based on a mid-sized Ford Focus passenger car.

Standard driver controls and information systems include

- a live steering wheel with active force feedback;
- gear shift with manual and automatic modes;
- turn signals; speedometer; gas, brake and clutch pedals; driver response input buttons and vent fan control;
- 3-in-1 interchangeable hand controls from SureGrip designed for use in automatic transmission mode;
- deluxe driver seat, and a functional seatbelt;
- driver seat platform is removable to allow wheelchair access to controls console, which is electrically height adjustable for different sized wheelchairs.
- high quality subwoofer and stereo speakers, as well as vibration transducers.



CDS-250W with and without driver's seat platform attached
Seat platform can be removed for wheelchair access to controls console

Other features:

- **Cab Size:** A compact design allows it to be placed into small clinics or medical offices with ease, with dimensions of 2.13m long x 1.2m wide.
- **Display System:** Configured with three, 19 inch LCD flat-panel displays subtending ~70 horizontal degrees. The recommended virtual field of view (FOV) to be rendered is 110 horizontal degrees.

Drive simulator provided by  DRIVE SAFETY™ of USA

++ Note: Forum8 provides a range of driving simulators at various price points

Software

Forum8 provides the 3D virtual reality locations and driving scenarios used by the simulator user.

Unlike some other simulators, the software is customized to Australian side driving and can reproduce Australian road rules.



In addition a Drive Diagnosis module provides numerical and video feedback on driver performance.



Advantages of use

The drive simulator provides a new level of evaluation and intervention previously not possible. In their practices, OTs say use of the simulator decreases car time, especially in the initial stages of in-car work, and has lowered the OT risk exposure.

For patients who are at too great a risk to be assessed on the road, the simulator is a natural solution. With the simulator, the occupational therapist can now give these patients a thorough evaluation and help them see where their weaknesses are without the risk of going on the road. Patients with functional limitations who must learn to drive using hand controls, can become skilled using new equipment and gain confidence before climbing behind the wheel of a real car.