



TransitSim™ 8 Bus Driving Simulator

Improve safety, efficiency and preparedness of transit operators



Effective end-to-end training for both new hire candidates and veteran transit operators

WHY SIMULATION

The Driver Training Solutions TransitSim™ 8 Bus Simulator offers a flexible platform for training fixed route bus operators to learn basic skill development, situational awareness, decision-making, judgment skills, and vehicle operations. The simulator enables trainers to supplement behind-the-wheel training to promote the safe and efficient operation of a standard fixed route transit bus.

Simulation-based training enhances initial bus operator training, periodic refresher training, and driver assessments allowing you to conduct practical real world training, in different mass transit scenarios and for different road and atmospheric conditions. The Driver Training Solutions TransitSim™ simulator reinforces positive decision making and promotes mastery of core skills through training in a realistic, risk-free environment.

Additionally, our dedicated team of transit professionals work directly with your local instructional teams to ensure the desired skills and safe driving behaviors transfer into observable daily habits.

KEY BENEFITS

- > Enables training on multiple vehicle configurations, regardless of availability of real equipment.
- > Improves driver competency and reduces costs associated with vehicle damage.
- > Resembles the driver's area of an actual transit bus, with seat, steering

wheel, brake and accelerator pedal, plus simulated gauges in a glass dash.

- > Provides practice on using controls; making turns; maneuvering through city and highway traffic, intersections, railroad crossings.
- > Trainees learn proper mirror setup, utilization techniques and core driving skills in the safety of the classroom.
- > Create and define scenarios to simulate the performance characteristics of a wide range of fixed route.

TRAINING BENEFITS

Accident Reduction: Simulation training reinforces positive decision making through training in realistic, risk-free situations.

Reinforce Driving Skills: This will translate into reduced accidents, better decision making and reinforcement of policy and procedure.

After Action Reviews: Each scenario is individually recorded with the ability to analyze, reconstruct and implement proper responses and techniques. The Replay Studio™ camera is positioned above the drive and records every action, reaction, and nuance of a driver's physical performance while training on the simulator.

Reduced Equipment Maintenance: By employing simulators for training, vehicles are spared heavy use, require less maintenance and last longer overall. Minimize damage.



IDEAL TRAINING TOOL FOR:

- > Decision-based skills training
- > Defensive driving
- > Space & speed management
- > Distracted driving
- > Close-quarter maneuvering
- > Backing procedures
- > Passing & lane changes
- > Negotiating intersections/turns
- > Situational awareness
- > Congested traffic
- > Pedestrian awareness
- > Managing off-road surfaces
- > Adverse conditions: night/fog
- > Rollover prevention
- > Emergency maneuvers

Ideal for municipal, government and commercial transit authorities

KEY FEATURES

- > Eighth generation, updated Driver Training Solutions driving simulators sets the industry standards
- > Real-drive motion: Simulates the actual dynamics and movements of the real vehicle selected
- > Ruggedized and modular design: Makes the TranSim™ the most durable and long-lasting sim on the market
- > Fully shrouded, realistic cockpit: Freightliner Cascadia Evolution built from OEM and replica components
- > Sharp and visually accurate graphics on 4K LCD displays recreate the look and feel of real commercial vehicles
- > Immersive 240° physical field-of-view with optional over-the-shoulder views (and 360° virtual coverage) surround drivers
- > Responsive Unreal™ Engine real-time graphics and powerful platform create realistic, high-resolution environments, enhance visual cues and reduce SAS
- > Exclusive Driver™ physics engine delivers true-to-life dynamics and reactions proven by automotive engineering modeling and real-world results
- > Force-loaded and full-feedback steering, transmission and pedals provide real-time feedback to augment muscle memory in critical driving situations
- > Hundreds of user-selectable vehicle configurations including every permutation of tractor, trailer, engine, transmission, axle, etc.
- > Challenging weather conditions (rain, snow, ice and fog), road/traffic environments (urban, suburban, rural, mountains, motorway, desert) and lighting conditions challenge students where they can fail safely and learn to recover

- > Comprehensive performance assessment tools and replay software
- > Updated, pedagogically sound driving scenarios effectively train drivers on critical skills and decision making
- > Scenario Builder™ software tailors scenarios custom to your fleet
- > SkillSet™ advance assessment software records and scores driver performance based on set objectives, triggered by rules and zones

INTEGRATED TRAINING SYSTEM

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TECHNOLOGY FEATURES

- > Modern dash includes real automotive parts: steering column/ wheel with foot adjustments, Auto Transmission Lever (AMT), 3-point seat belt, pedals, and under-dash lighting
- > Powerful Image Generator platform including Intel i7 4.9 GHz processor and NVIDIA GeForce RTX 4070 video
- > Advanced commercial vehicle systems including e-coast, lane departure warning, collision avoidance and more
- > 4-18 speed Multi-gear transmission economical shifting instruction, using OEM Eaton controls
- > Digital dash allowing operation of hundreds of different vehicle types with accurate gauges and instrumentation

- > Student or instructor control of the simulator via touch screen at the Operators Console (OpCon) and simple and quick control to change vehicle type, scenarios, settings, and lesson plans
- > Optional D-Box 3-axis Motion Base with 120Hz update rate and four independently controlled actuators accurately simulates the real motions of driving
- > Immersive, three-dimensional, 5.1 channel surround sound plus Tactile Sound Transducer



ADVERSE WEATHER CONDITIONS

Simulate environmental conditions, such as snow, fog, rain, wind, and ice



CHALLENGING ENVIRONMENTS

Challenge driving skills for on-and off-road terrain



MODERN VEHICLE SYSTEMS

Learn to utilize new safety systems and warning alerts like collision-avoidance