

FIRESIM™ EMERGENCY VEHICLE DRIVING SIMULATOR

Immersive, cost-effective driver training solutions for emergency responders and EMTs.

Reduce accidents and equipment damage by practicing critical decision-making skills, vehicle handling, intersection clearing, scene size-up and staging, speed management and situational awareness.

Emergency responders operate in a unique driving environment that is unmatched by other professions. Emergency vehicles have exceptions to the normal rules of the road. Many components of this unique driving cannot be safely or economically replicated in a training environment outside of simulation. Structured, objective-based, defensible training gives first responders the skills necessary to accomplish their jobs.

The L3Harris FireSim™ emergency vehicle driving simulator provides high-fidelity real-world driving environments to train decision-making and behavior over a wide range of situations facing emergency vehicle operators everyday. Simulation-based training with the FireSim™ reinforces positive decision making and situational awareness through training in a realistic, risk-free environment with the ability to repeat scenarios.



KEY CAPABILITIES

- > Instructors can build training curriculum to assess students on various vehicle types including brush trucks, tankers, pumpers, ladder trucks, incident command trucks, battalion chief trucks, or airfield vehicles, ARFF, and EMS vehicles.
- > OmniSim provides optional interchangeable driving seats for large fire apparatus or EMS ambulance.
- > Create and train in various medical, fire, or hazmat response scenarios.
- > Realistic graphics to teach scene size-up and staging of apparatus.
- > Practice collision-avoidance techniques while driving to the scene of a fire.
- > Train drivers to anticipate hazards with emergency response techniques for all types of driving situations.
- > Allows fire departments to screen and qualify potential hires and improve new-hire and career-employee driving skills.
- > Combine classroom instruction, computer-based training and interactive simulation with coaching by skilled industry professionals.
- > Reduces training time; industry experts concur one hour of simulation training is the equivalent of up to four hours of “behind-the-wheel” instruction.
- > Prepares your drivers, through specific scenarios, to handle extreme situations without risk to personnel or property.

SKILLS TRAINING FOR:

- > Hazard detection and scanning
- > 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: snow/night/fog
- > Rollover Prevention
- > Emergency maneuvers

PREPAREDNESS TRAINING:

- > Rural and wildland brush fires
- > Airfield and military base support
- > Urban and suburban incidents
- > Mountain forest fires
- > Interagency, coordinated response

Cost-effective emergency vehicle operator training for local, county and state fire departments.

KEY BENEFITS

- > **Accident Reduction:** Simulation training reinforces critical decision making skills and helps practice collision-avoidance techniques.
- > **Reduce Equipment Maintenance:** Minimize damage to engines and reduce fuel costs by practicing in a risk-free environment, year round.
- > **After Action Reviews:** Driving scenarios are recorded with the ability to analyze, reconstruct and repeat proper responses and techniques.
- > **Reinforce Driving Skills:** Improve your driver's knowledge and skills on vehicle handling, intersection clearing, scene size-up and staging, speed management and situational awareness.
- > **New Hire & Career Level Training:** Allows fire departments to screen and qualify new officers and improve experienced engineer driving skills.
- > **Zero-Risk Training:** Engineers can prepare for specific emergency response scenarios, to handle extreme situations without risk to personnel or property.

ADDITIONAL FEATURES

- > Users can choose from a variety of predefined emergency vehicle configurations and scenarios.
- > Force-loaded steering provides real-time feedback to augment muscle memory in situations such as a tire blowing, weather effects, hitting the curb or sloshing liquid loads.
- > Modern vehicle cab creates a realistic learning environment that includes a driving seat, steering wheel, brake, clutch and accelerator pedals to enhance realism

and achieve better retention.

- > Realistic emergency vehicle transmission and vehicle dynamics model.
- > Instructor Operator Station (IOS) included for effective management of training objectives, scenarios, and malfunction simulation.
- > Scenario difficulty can be adjusted to accommodate any experience level. Easily reproduce and rehearse unique driving situations.
- > Vehicle, autonomous traffic, and environment libraries covering a wide variety of geographic settings and conditions.
- > Collection and reporting of scoring data Performance assessment tools and replay/de-brief software enhance training effectiveness.
- > Our reconfigurable Glass Dash loads different vehicle types (synthetic gauges and instrumentation giving greater flexibility and scalability).
- > Change weather conditions (rain, snow, ice and fog), road/traffic environment to urban, suburban, rural, mountains, motorway, desert and the lighting conditions to day, night or twilight.
- > The Glass Console allows the instructor control of the simulator via touch screen at the Operators Console (OpCon) and gives student simple and quick control to change vehicle type.



VERSATILE VEHICLE DESIGN

Glass Dash offers dynamic selection of various vehicle instrument panels.



STAGING & SCENE SIZEUP

Place fire, smoke and other emergency incident objects with Scenario Builder.



INSTRUCTOR TOOLS

Allow instructors to manage training environment, LMS, scoring, and AAR.



SITUATIONAL AWARENESS

Recognize and anticipate hazardous driving situations in various environments

For more information visit L3Driver.com

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