



Patrolsim™ 8 Law Enforcement Driving Simulator



Improve officer safety and driving behaviors during emergency vehicle operations

More than 95.4% of motor vehicle crashes are caused by driver behavior, more specifically, poor decision-making (NHTSA, 2008). Simulation-based training is a cost-effective tool to improve decision driving tactics, safe motor vehicle operations, pursuit management, and distracted driving.

IMPROVE DECISION MAKING

Over time, officers may inadvertently develop habits while driving that can compromise their safety. These habits can include issues like neglecting to scan surroundings for potential hazards, or frequently switching between tasks. Addressing these habits ensures the well-being of the officers and the preservation of the fleet.

PatrolSim™ 8 introduces officers to challenging situations that target skill development and increase the trainee's situational awareness, self-awareness, and critical thinking skills. Scenarios are designed to get officers eyes down the road, maximizing reaction and decision-making time when a hazard is presented.

A simulation-based training approach improves drivers' critical driving skills, enhances decision-making abilities, and increases the safety of staff and the community they serve.

SCENARIO BASED TRAINING

PatrolSim™ 8 is a highly effective tool to replicate real, but dangerous situations in a risk-free environment. Scenarios provide training on hazardous situations that are too risky to replicate or control at a training facility, range or on the roads.

PatrolSim™ 8 gives officers the opportunity to experience and fail scenarios safely without putting public safety at risk. Scenarios focus on orientation, scanning, road hazards, critical thinking, and negotiating traffic in different conditions. Scenarios developed by law enforcement for law enforcement tackle agency high risk areas.

REINFORCE POLICIES

The days of merely reading policy are over. Simulator training gives agencies the opportunity to put officers in situations where they are challenged to apply policies and procedures in rapidly evolving scenarios.

PatrolSim™ 8 is a proven, interactive tool to immerse officers in real-world applications and to reinforce department policies and explain why those policies are in place.

Officers have to learn to prioritize actions using all of their available equipment and resources. Real world distractions can be incorporated into the training environment. MDT, siren, radio, phone, etc., need not distract the officer with proper training.



IMPROVE DRIVER SAFETY

- > Reduce officer complacency
- > Replicate agency collisions
- > Enhance cognitive awareness
- > Reinforce policies and procedures
- > Reduce vehicle damage
- > Reduce training costs

DECISION MAKING SKILLS

- > Risk-free environment
- > Situational awareness
- > Practice decision driving tactics
- > Heavy traffic & intersection clearing
- > Head scanning techniques
- > Distracted driving
- > Pedestrian awareness

ON-THE-JOB PREPAREDNESS

- > Scenario-based training system
- > Traffic stops and pursuits
- > Coordinated responses
- > Improve vehicle handling skills
- > PIT maneuvers
- > Skills driving range course

Cost-effective training technology for municipal, county, state, and federal agencies

KEY FEATURES

- > Eighth generation, updated Driver Training Solutions driving simulators sets the industry standards
- > Fully shrouded, realistic cockpit: Ford Police Interceptor built from OEM and replica components
- > Sharp and visually accurate graphics on 4K LCD displays recreate the look and feel of real law enforcement 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
- > MDC touchscreen display, adjustable console panels for siren and light controls, and VON radio communications
- > Force-loaded steering and controls, coupled with advanced vehicle dynamics, driven by the exclusive Driver Training Solutions physics engine and validated against OEM test track performance data, provides real-time feedback to the driver
- > Challenging weather conditions
- > (rain, snow, ice and fog), road/traffic environments (training range, urban, suburban, rural, mountains, motorway, desert) and lighting conditions challenge students where they can fail safely and learn to recover
- > Updated, pedagogically-sound driving scenarios effectively train officers on critical law enforcement-specific skills
- > Standard performance scoring system generates assessment scorecard for each driver tracking speed, lane changes, use of mic, etc.
- > Comprehensive performance assessment tools and replay software

DRIVER TRAINING SOLUTIONS FOR LAW ENFORCEMENT

- > Blended learning environment
- > Performance assessment scoring
- > Immersive driving simulators
- > Mobile training center trailers
- > Higher transfer-of-learning and increased retention
- > Optional instructor vehicle controls for real-time, in-simulation participation
- > Year round training capability

TECHNOLOGY FEATURES

- > Modern dash includes real automotive parts: steering column/wheel with adjustments, OEM transmission control, 3-point seat belt, and pedals
- > Powerful image generator platform including Intel i7 4.9 GHz processor and NVIDIA GeForce RTX 4070 video
- > Digital dash allowing flexible operation 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 4 independently controlled actuators accurately simulates the real motions of driving
- > Immersive, three-dimensional, 5.1 channel surround sound plus Tactile Sound Transducer



ADVANCED 3DOF MOTION SYSTEM

Advanced Motion Base, powered by D-Box, provides real-time motion response and road feedback



MODERN VEHICLE DESIGN

Adjustable console design to position siren controls, lights, and mic in accessible positions and build muscle



VERSATILITY

Glass Dash display allows versatile way to load different vehicles with appropriate vehicle dynamics, gauges and visuals



EXPANSIVE VIEW AREA

Adjustable over-the-shoulder views expand the physical field of view to more than 240°.

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