

Sole Source

For Driver Training Solutions Law Enforcement Simulator

Barton Community College

February 19, 2026



Dear Christian Rivas,

This letter is to inform Barton Community College that DTS is the sole provider and Original Equipment Manufacturer (OEM) of the PatrolSim8 Law Enforcement simulator. The DTS PatrolSim driving simulator has unique capabilities and features not found in other driving simulators. The DTS PatrolSim Law Enforcement Driving Simulator is the only simulator that features all the following capabilities:

- Graphics: Only DTS utilizes the Unreal Engine graphics, which features the most realistic driving environment in the industry. Enhanced realism reduces SAS and increases the effectiveness of immersing the student in the simulation environment, thus leading to better training outcomes.
- LCD Vehicle Glass Dash: virtual dashboard that mimics selected vehicles.
- Real-World Drive Motion 3-DOF Platform: Full-motion platform that moves interdependent from VDUs to mimic the real-world stationary horizon, while moving internal driving components. Seat base is fully detachable. Utilizes 3rd Gen DBox technology.
- Interchangeable Seat Base: interchangeable motion platforms allow you to switch seat base to train trucking, law enforcement, fire, EMS, municipal, sanitation, or busing without changing VDUs.
- Student Glass dash: Allows instructor or student to pick scenarios or vehicles directly from simulator, without using the instructor station. Utilized to mimic vehicle dash.
- Camera and Replay: Features camera to watch student from instructor station. Scenarios can be replayed.
- Overhead Shroud: Blocks out external lighting to reduce SAS and provide realistic in-cab experience.
- Scenario Builder Software: Create or recreate scenarios with our proprietary scenario builder software.
- DUI Setting: Allows driver to simulate driving under the influence.
- MDC: Allows instructor to act as a dispatcher and send an MDC message from the IOS to student screen on simulator.
- Scenarios: >70 included pedagogically rigorous scenarios
- Curriculum and Software: Our LE Pursuit course software package is DTS proprietary software.
- Instructor Vehicle Interface: Allows instructor to control other vehicles in scenario to interact with student driver.
- Steering Wheel: Interceptor steering wheel & real vehicle parts.
- Modular Design: Allows for individual parts to be removed for repairs, reducing downtimes. Also allows for multiple units to be run by a single Instructor station.

- Lifetime Customer Support: Customer support & software updates included.
- Manufactured: United States.

Best regards,

Monty Davis

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For PatrolSim8™ Law Enforcement Driving Simulator

This document explains our unique technological capabilities that are not available anywhere else in the United States as common off-the-shelf (COTS) items. Our approach to engineering and design of our driving simulators is driven by the following differentiators that only our products and solutions can provide:

OmniSim™ Modular Cab Design

Scalable, Versatile Design - The DTS interactive driving simulator platform is designed with scalability and versatility in mind. We understand that customers have unique requirements and demands. Those requirements and demands may change over time. Our products take this into account by offering customers our exclusive OmniSim™ feature. OmniSim™ allows customers to train different types of drivers by interchanging the seat base, while utilizing one visual display system. It is designed to minimize costs and maximize training optimization. The omni sim seat base allows users to train on

Trucking, Law Enforcement, EMS/Fire, Transit Bus, and Delivery vehicles. The interchangeable seat base makes this possible.

Reconfigurable System - OmniSim™ design supports reconfiguration using slide-in driver compartment cabs. This unique modular reconfiguration capability allows the customer to purchase a simulator with one type of vehicle seat base (seat, steering wheel, pedals, and dash) such as a commercial trucking vehicle and add a different vehicle's seat base such as a sedan or light vehicle in the future. In just a couple of minutes, you can unplug one seat base, and swap in another, using the same visual display system. This provides the capability of several types of simulators, with minimal investment. In the future, you could simply add a different seat base to your system and train drivers for fleet vehicles, sedans, or other light vehicle types.

Adaptive Learning Engine (ALE) – leveraging artificial intelligence and machine learning rules engine to objectively assess and track driver performance.

- Automated and adaptive learning experience
- Data outcomes influence assessment drive
- Machine Learning & Rules Engine that scores simple to complex behaviors
- Student Support with accelerated learning, adaptive coaching, self-paced support, and performance feedback
- Instructor Support with automated class performance reports, real-time dashboards and debrief system
- Scenario drive assessing 15 performance objectives
- Identification of performance gaps
- Targeted training plan
- Automated training remediation (online course, simulation scenarios)

Advanced Visual Graphics Engine

Only the DTS driving simulator utilizes the Microsoft Havok™ graphics engine that provides cutting edge graphics and visual effects to provide the most immersive driving simulation experience available. This is the same graphics engine that has been used for Halo, Dark Souls, Destiny, Call of Duty and other top of the line gaming titles to present unprecedented realism to the user. Top of the line graphics with our best-in-class vehicle dynamics and

virtual environment gives you the most immersive experience possible.

Best-in-class, real-time imagery - accurately simulates the movement of the vehicle through a virtual environment. Offers the fastest, most robust collision detection and physical simulation technology available, which has become the gold standard within the simulation industry. DTS' visual graphics engine is fully customizable, including time-of-day, weather conditions, night-time environments with accurate illumination, headlights, taillights, traffic control signals, fog, rain, and snow.

Realistic Mirrors – Realistic, accurate vehicle mirrors for virtual left, right, convex, and center rear view mirrors are embedded in the display based on the vehicle type and are fully adjustable to correspond to the adjustable seat based on real-world positioning. Additionally, full control of the actual view from the mirrors is available to the user to modify and tune as required with no need for customer support.

Autonomous Traffic – Our graphics engine has a built in AI for traffic density that can be altered and customized to add additional vehicles to any of the standard or user-generated scenarios. The result is customized training with user-definable traffic density as dictated by the training objectives. Unlike other solutions, DTS' approach provides ability to mix scripted and autonomous traffic, without interfering with the script objectives.

Photorealistic Characters - The TranSim™ pedestrians have physics-based, photorealistic quality and animation—walking, running etc. Others have pedestrians that move but are not realistic. Photorealistic graphics provide a truly immersive experience that triggers the student's emotions, including the adrenaline producing response necessary for stress induced decision-based training.

Vehicle concurrency integration – ability to quickly integrate new vehicle technologies like driver assist systems including camera mirror systems, lane departure warnings, blind spot alerts, and collision avoidance sensors.

Vehicle Dynamics Engine

High-fidelity Vehicle Dynamics – High fidelity vehicle dynamics simulate vehicle performance, including tire interactions, power train, braking systems, suspension, throttle, steering, transmission, environmental conditions (wind, rain, snow, ice). The TranSim™ has a realistic vehicle dynamics model. Others use simplistic generic vehicle models where handling is not as realistic.

Sophisticated automotive engineering concepts and are driven by both measured physical characteristics and manufacturer specifications. The resulting vehicle behavior model has been validated against published proving ground results and vetted with industry experts. Our vehicle dynamics models are comprehensive enough to represent real vehicle behavior. Each tire, wheel, suspension point, steering wheel, engine, transmission, drive train, and chassis are modeled.

Advanced physics model - includes 21 data point model representing tires, suspension, vehicle chassis, steering and power train. This level of sophistication matches that in engineering applications and enables our unfiltered use of vehicle manufacturer and other OEM data.

Turn-Key Training Content Library

Robust training content library - *Includes dozens of training scenarios ready for training on day one. These scenarios cover a broad range of driver safety training curriculum and learning objectives including orientation,*

emergency maneuvers, backing, close quarters maneuvering, and adverse conditions. These training scenarios are fully editable and customizable using DTS' Scenario Builder Tool, which also allows for the creation of new scenarios, providing the most flexible and scalable training experience possible.

Truck Vehicle Package - The TranSim™ offers numerous commercial vehicles with their dashboards built into the system along with the associated vehicle dynamics. Models available include many of the most common vehicle OEMs.

Geospatial Driving Environments – access to DTS GIS satellite imagery, terrain data, and road network databases to develop geospatial driving environments.

Replay Studio™

Driver Camera - The TranSim™ includes a color camera mounted above and facing the driver. The camera's field of view encompasses the driver's face and hands. During low-light situations, the camera will automatically switch to black-and-white mode and illuminate the scene with infrared lighting to maintain a high-contrast crisp image of the driver.

In-Cab Camera Displays - The views of the in-cab cameras are displayed in real time at the instructor station. Each instructor station can be linked to up to 4 simulators, giving you the option to view all four drivers live feeds in split-screen mode simultaneously. The images are displayed on the instructor station's display, and on the center simulator display. The display can be configured to show the student, or the student with the replay in-picture mode. This allows a unique ability to review and correct driver decisions and behavior within the context of the actual training environment.

Multi-view - The PatrolSim™ has six replay views, which **other manufacturers do not offer**. Replay and after-action review is an important part of the remediation process. Best driving practices cannot be properly trained without multiple replay views.

After Action Review –DTS' industry leading After-Action Review (AAR) allows the instructor to review the actions taken during the scenario as the driver experienced it as well as review the video of the driver's face and hands. AAR playback can also be paused and indexed forward and backward in time, as well as viewed from multiple angles.

Scenario Builder™

Develop your own dynamic training scenarios – In addition to the robust library of training scenarios that are delivered with the simulator, our proprietary DTS Scenario Builder™ provides the ability to create dynamic training scenarios in large and relevant visual databases. Our simulator ships standard with a variety of drivable databases, including suburban, urban, rural, freeway, mountain pass, skid pad, test tracts, and options for many more. You can use Scenario Builder™ to develop rich, user tailored content by adding script-able scenario vehicles. The DTS simulator provides approximately 500 different vehicle types and object configurations that can be used in scenarios to create realistic training environments.

Unmatched Simulator Expertise

Best-in-Class Simulation Expertise – DTS is a global leader in delivering cost-effective simulation and training solutions to commercial and government personnel. You have access to the expertise of staff and accessibility of

resources used to develop some of the world's most advanced flight simulators.

Resource Capabilities – DTS facilities continue to deliver unmatched access to engineering resources. On-staff driving simulation experts and immediate access to over 500 engineering personnel specialized in every possible realm of simulation for flight, ground, and maritime environments. We are the only driver simulation company with expertise in custom scenario generation, virtual environment development and building to mission critical requirements.

Simulation design experts - Software expertise in real-time simulation, communication systems, vehicle propulsion, and physics/dynamics modeling. Virtual environment specialists on-staff capable of creating customer specific simulation features. Customer specific vehicles, modeled in appearance and performance, both for vehicles used in training and those the trainee interacts with. Virtual world generation and tailoring to match customer requirements, to include locations and cultural features.

On-demand Engineering Team - include access to a large engineering staff including systems, electrical, and mechanical engineers. Additionally, complete access design-to-spec or build-to-print, prototyping, production, and refurbishment capabilities.

Global Services Team - Graphic art and design production personnel capable of development teams to customize vehicles and environments. Laser scanning and in-house precision machining for vehicle dashboard and cab replication. Global field service, installation, and technical support teams.

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