Simleader APEX S1 Simulator - the Benchmark in Immersive Airport Ground Vehicle Training

Simleader is a cutting-edge manufacturer of custom driver training simulators for law enforcement and emergency agencies, airports and schools in North America, in Europe and in the Middle East.

Our unmatched 3D Scan Technology and Custom Simulation software accurately combine in stunning details, our client's cities, infrastructures or airports into a compelling immersive training tool.
Simleader APEX S1 Driving Simulator Featured Highlights

Unparalleled, highly-realistic 3D renderings of your airport airside / landsite areas:

- Fully programmable driver training programs.
- Fully programmable day and night operations, in any weather conditions.
- Accurate vehicle dynamic reproduction and natural real-time traffic flow models.
- Your airport layout, locations and designations of runways, taxiways, de-icing pads and holding.
- Airport security perimeter.
- Advanced two-way radio communications protocols between trainee and instructor.
- Safe deployment of airside / landside ground vehicles, on maneuvering areas shared with aircrafts.
- Airport terminals, passenger boarding bridges, control towers, service-drives, signs and markings, equipment staging and parking areas, runway lightings, de-icing pads, aircraft hangars, on-site hotels, public transportation, train stations, police and emergency response stations, ground handling facilities, etc.

Unmatched 3D Scan Technology allowing stunning 3D renderings of your airside / landsite areas.

Simleader’s custom driving training simulators meet the challenges of international airports airside and security administrators facing high employee turnover. By raising employee awareness of airport procedures and safe practices, instilling a sense of responsibility and maintaining consistency in the work force, Simleader’s APEX S1 immersive simulator will allow your airport to systematically train more skilled employees and readily meet the requirements of aviation regulatory and government agencies.
Customizable Training Curriculum Options

- A powerful tool for implementing the FAA’s Safety Management System (SMS).
- Fully programmable real-time training programs.
- A comprehensive custom vehicles library.
- Real-time dynamic feedback according to selected vehicle.
- Safe deployment of airside-landside vehicles with low / high aircraft movement.
- Airport layout familiarization, airside signage and lighting, day and night low visibility scenarios and radio communication protocols.
- Knowing your airport layout, locations and designation of all runways, taxiways and holding points.
- Aircraft emergency situation.
- Airport perimeter security breach and runway incursion.
- Airside vehicle escort.
- Runway inspection.
- Air Traffic Control (ATC) communications protocols, standard phraseology & clearance for towing aircraft.
TECHNICAL SPECIFICATIONS*

APEX S1 Simulator

- Two Simleader custom-built PC towers configured for best performance, reliability and longevity.
- Complete cockpit controls, telescopic and tilt adjustable steering wheel, adjustable pedals and rearview mirror.
- One driver-passenger bench seat.
- Displays: six adjustable 42” panoramic HD flat-panels, retractable for transport and one Oculus Virtual Reality Headset.
- G13 Logitech programmable game board control.
- Six Surround Sound HD speakers; one cockpit Logitech webcam.
- Structural rigidity provided by industrial grade chassis, panels and antiskid floor components.
- Powder-coated chassis mounted on heavy-duty wheels for ease of transport.

APEX S1 Instructor Station

- Space requirements: approx. 32” x 9’ closed; 6’ x 9’ fully operational.
- Total weight - Approx. 500 Lbs., determined by client’s requirements.

- 20” to 50” HD touchscreen control panel; 42”, 55” or 75” HD simulation monitor, 10” HD trainee cockpit monitor.
- Industrial grade, electric height adjustable aluminum desk.
- Fully programmable training scenarios, vehicle selection, weather conditions, cameras selection, bird’s eye view etc.
- Natural, programmable traffic flow simulation models.
- Realistic trainee-instructor two-way radio communications.
- Individual control, reviewing and training evaluations.

*All product, product specifications and data are subject to change without notice.