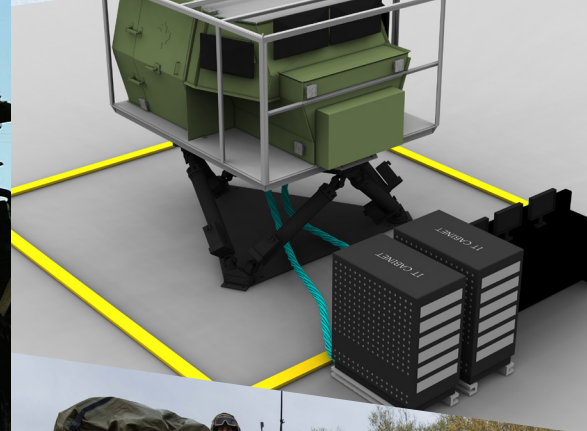# MISSION ANTI-ROLLOVER GUNNERY SIMULATOR

Bluedrop Training & Simulation's Mission Anti-Rollover Gunnery Simulator (MAGS) is a motion-based vehicle crew gunnery training system that provides a virtual external environment for mission relevant training.

Focusing on high fidelity mission specific operations, MAGS offers individual through collective training opportunities. The simulator features training agility through procedure-based weaponry operation, advanced ballistics modelling, mission rehearsal and interconnected multi-vehicle command gunnery operations.

The enhanced training system increases readiness of vehicle crews (driver, gunner, commander) across configurable platform types and mission proficient gunnery operations in representative combat and environmental scenarios. With mission modelling allowing for variation in terrain, weather, wind and geographic location, crews can perform full spectrum training without the requirement for range time, vehicle wear and ammunition expense.

Photos courtesy of Canadian Armed Forces Image Gallery

MISSION ANTI-ROLLOVER GUNNERY SIMULATOR

Cost Effective and Mission Relevant

MAGS allows the trainee to practice mission critical skills in a safe, true-to-life environment. Trainees practice realistic gunnery in challenging scenarios with the ability to dynamically control mission complexity.

The system is reconfigurable for different vehicle or weapons types and boasts advanced ballistics physics to facilitate true to life gunnery training. With mission relevant driver functionality including real-time, motion-based, anti-rollover training; the system is focused on command and gunnery operations including external, multi-network communication for a full crew training experience. Remote weapons station operation is simulated via internal touch screens that are representative of fire control units and allow weapons functionality to be completed virtually; ensuring complete weapons drills can be practiced for improved mission effectiveness.

Benefits of MAGS Simulation

- Seamlessly blend physical and virtual worlds
- Navigate and interact in spatially complex operational environments
- Mission specific operations without vehicle wear and tear, cost or maintenance
- Improved proficiency without range/ammunition cost and availability
- Mission-rehearsal for improved mission effectiveness
- Practice crew resource management skills
- Fight the vehicle at the limits of mission effectiveness without vehicle risks such as rollover
- Optimized learning management
- Virtual reality technology has been shown to improve user performance in tasks such as spatial understanding, memorization and training

Features

- Fully configurable to most vehicle types based on customer needs, with driver/gunner/commander representative seating configuration
- Six degree of freedom motion platform, including simulated weapons recoil, vibration and vehicle motion
- Realistic external virtual environment
- Representative touch screen remote weapons system
- Virtual weapons operation for full procedural training on immediate action and stoppage drills
- Simulated or inter-connected collective training
- Record and capture mission for detailed debrief
- Ability to seamlessly integrate with a variety of other training devices

About Bluedrop

Bluedrop Training & Simulation designs, develops, and integrates advanced training solutions including state-of-the-art training and simulation products and highly interactive courseware. Our approach meets the demands of today's modern armed forces - providing blended training solutions from the classroom through to simulated virtual environments aimed at improving safety, productivity, and efficiency. Bluedrop Training & Simulation is a small to medium-sized enterprise providing a strong value proposition offering 100% Canadian designed and developed solutions.