



Photos courtesy of Canadian Armed Forces Image Gallery

MULTIPURPOSE GUNNERY MISSION TRAINER

Bluedrop Training & Simulation's Multipurpose Gunnery Mission Trainer is a fully immersive virtual training device for aerial gunnery missions.

Complete with a world database, real-time rendering of detailed visual cues, realistic sea states and movement of wind over a multitude of scenarios, the user will feel completely immersed in the virtual environment.

The enhanced training system increases readiness in aircrews, provides varying environmental scenarios and can be configured to replicate any hour of day. Trainees can work with a variety of operations and the simulation covers training in all terrain types including ocean, coastal regions, mountainous terrain and various other terrains such as jungle or Boreal forest.

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Safe and Cost Effective

The gunnery trainer allows the trainee to practice mission critical skills in a safe, true-to-life environment. Trainees practice realistic gunnery in challenging scenarios including how to effectively engage targets in a nonthreatening environment.

The system boasts transportability, easy set-up/tear-down, easily configurable platforms, as well as quick and flexible relocation of the gun with reversible and repositionable window and door mounts. The simulator will ensure full immersion in the virtual training environment for the trainee with high-fidelity realism and authenticity to meet gunner training objectives while moving inside the physical cabin and allowing for interaction with physical features of the aircraft.

Benefits of Immersive Virtual Training

- Seamlessly blend physical and virtual worlds
- Navigate and interact in spatially complex operational environments
- Train for dangerous malfunctions and emergencies in a safe environment
- Improved crew communication
- Renew or implement crew resource management skills
- Enhanced training for readiness at reduced operational costs
- Safe simulation of environmental conditions without introducing operational risks
- Record and capture examples of the lesson for detailed debriefs
- 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 any fuselage type based on customer needs
- Optional three or six degrees of motion platform
- Realistic virtual environment
- Wide selection of door or window mounted gunnery equipment available
- High fidelity force and recoil feel
- Weapon malfunctions to allow the trainee to perform immediate actions and stoppage drills
- Clean technology - reduces environmental footprint compared to live training
- Ability to seamlessly integrate with a variety of flight training devices

Mission Scenarios

- Initial testing of training in simulator
- Testing of progression and exam
- Crew Resource Management
- Variable weather conditions
- Ammunition restrictions
- Situation awareness
- Rules of engagement
- Weapon handling
- Scanning technique
- Spatial awareness
- Communication
- Firing solutions
- Prioritization
- Timings



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.