# Bluedrop
## TRAINING & SIMULATION

# REAR CREW MISSION TRAINER

Bluedrop Training & Simulation's Rear Crew Mission Trainer (RCMT) is a fully immersive virtual training device for mission-specific rear-crew training. The cutting-edge trainer provides a realistic virtual environment in which the rear-crew of a helicopter can develop skills in team-wide communication during mission training.

Complete with a whole world database, real-time rendering of detailed visual cues, realistic sea states and movement of wind over grass and sand, the user will feel completely immersed in the virtual environment. The real-world feel of training ensures helicopter crews are fully prepared without costly and risky helicopter based training.

The enhanced training capabilities increase readiness in helicopter crews, provides varying environmental scenarios and can be configured to replicate any time of day or night. The RCMT prepares trainees for all procedural aspects of rear-crew tasks and skill sets. Trainees can work with a variety of sling load, hoist and defence operations, such as virtual replenishment, search and rescue (SAR) and hoisting for survival. Simulation covers training in all terrain types including sea, coast, cliff face and heavily wooded areas.

# REAR CREW MISSION TRAINER

### Safe and Cost Effective

The RCMT teaches mission critical skills in a completely safe, yet true-to-life environment. The trainer provides substantial cost savings over live training. Trainees practice helicopter communications, realistic gunnery and the physics of swinging loads in challenging scenarios that will likely arise in their future operations. The realism of the training environment is further enhanced with the accurate rendering of all other operators working within the simulator as avatars in the headset to reinforce the full-crew training experience, the importance of crew resource management, and coordination of tasks during operational missions.

Hoisting is a significant feature that can be accurately trained using the RCMT. The RCMT hoist uses actual speed, directionality and tension of cable so crew can feel confident when using the hoist in the real world.

Trainees will also learn how to properly engage, lead and lag targets in a nonthreatening environment that offers enormous resource savings.

### 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
- Realistic virtual environment
- Conduct advanced training for hoist operations using fixed and pendant hoist controls
- High fidelity weapons trainers utilizing force, recoil and malfunctions to allow trainee to perform immediate actions and stoppage drills
- Clean technology - reduces environmental footprint compared to live training
- Integrated motion capture enables tracking of entire body within virtual space
- Ability to seamlessly integrate with a variety of flight training devices

### Mission Scenarios
- Initial testing of training in simulator
- Testing of progression and exam
- Situational and spatial awareness
- Offshore Oil and Gas operations
- Tactical Over-Land/Over-Ship/Rig
- Crew Resource Management
- Variable weather conditions
- Ammunition restrictions
- Rules of engagement
- Search and Rescue
- Weapon handling
- Communications
- 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.