CymLITE-MCS

Mission Combat Simulator

Fully immersive training from initial qualification to mission rehearsal.

CymSTAR proudly presents the CymLITE Series training system, featuring Mission Combat Simulator® (MCS) software, in partnership with ED Mission Systems. We excel in the rapid and cost-effective tailoring of CymLITE-MCS to meet specific customer requirements. This system delivers realistic training experiences across various military fixed-wing and rotary-wing aircraft, engaging in dynamic mission rehearsal scenarios.

The CymLITE-MCS features outstanding performance and adaptability at a competitive price point. A CymLITE device, integrated with the MCS software, can be easily modified to incorporate additional weapon system models and varied terrains, including systems dependent on classified or export-controlled models and data. CymSTAR combines the deployable CymLITE platform and an immersive MCS environment, creating a comprehensive solution to help prepare warfighters for missions.

Users

The CymLITE-MCS is primarily used by military and defense organizations and personnel involved in military training, operations, and mission rehearsal, including:

- Pilots and Aircrew
- Military Training Centers (Air, Land, Naval)
- Naval Aviation Units
- Ground Systems Operators
- Mission Planners

Applications

- Deployable and networkable mission rehearsal trainers
- Procedural and weapon rehearsal trainers
- Tactics development and training
- Operational, tactical, and procedural training
- Fire support and coordination of Air, Sea, and Land forces--combined arms operations
- Military multi-domain mission support and training software

Training, Mission Rehearsal and After-Action Review

- Ideal for instructional training, mission training, and mission rehearsal
- Provides detailed mission environment for post-mission analysis
- Compatible with exporting/importing data for planning
- Enhances flight safety, proficiency, and resource allocation
- DIS compliant for interaction with third-party simulators and LVC operations

CymSTAR

Key Features

- Highly adaptable MCS environment—leverages a wealth of COTS development
- Tailorable using Software and Terrain Development Kits
- Detailed 3D cockpit recreations and high-resolution aircraft models
- Simulation of various weapon systems, including missiles, guided bombs and gun pods
- Equipped with Virtual Reality and Mixed Reality visual system
- Uses AI for constructive unit control in dynamic combat situations
- Multiple theater maps with high-resolution elevation topography, landmarks, and dynamic weather conditions
- Comprehensive library of combat systems, including aircraft, weapons, ground vehicles, ships, air defense units, and structures
- JTAC/JFO operations capable during distributed Joint Fire Sessions in symmetric and asymmetric training scenarios

Configurations

The CymLITE-MCS is offered in various configurations to suit our clients' budget and training requirements.

- Full Flight Simulator (FFS)
- Part Task Trainer (PTT)
- Virtual Reality and Mixed Reality
- Cockpit Replica
- Deployable Systems
- Dome
- Motion Systems
- Desktop

The CymLITE-MCS comes with pre-designed aircraft platforms for both rotary-wing and fixed-wing aircraft. CymSTAR can design additional platforms to meet clients' specific needs.