

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



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 the specific needs of clients.

Fixed-Wing

- A-10C
- AV-8B
- C-101EB/CC
- F-14
- F-15C
- F-15E
- F-16C
- F/A-18C
- F-5E
- JF-17
- L-39C/ZA
- MiG-19
- MiG-21Bis
- MiG-29
- Mirage 2000C
- Su-25
- Su-25T
- Su-27
- Su-33
- Red Air

Rotary-Wing

- AH-129D
- AH-64D BLK II
- CH-47F
- Mi-8MTV2
- Mi-17
- Mi-24P Hind
- Ka-50
- OH-58D
- SA342
- UH-1H