MISSIM

UAV Mission Simulator

Elbit Systems™
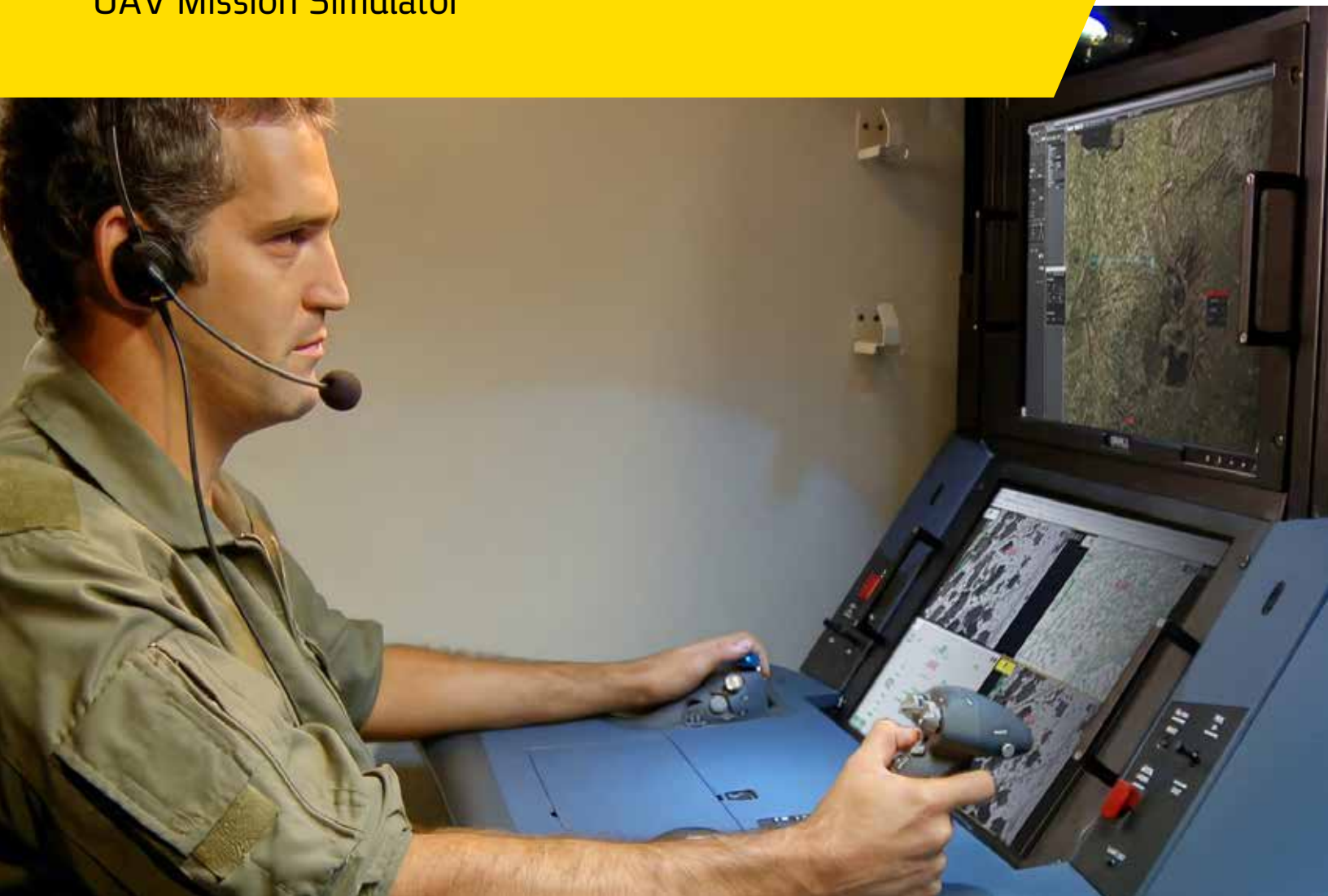Aerospace

UAV Mission Simulator (MISSIM)

The UAV Mission Simulator (MISSIM) provides comprehensive UAV training, from basic pilot qualification to advanced full-crew mission operations. With tens of thousands of operational hours and thousands of users worldwide, MISSIM has a proven track record of delivering reliable and effective training.

Realistic Training and Advanced Simulations

MISSIM features a high-fidelity Form, Feel, and Function (FFF) interface for pilot and sensor operator stations using Ground Control Station (GCS) hardware. Integrated with the OneSim training system, it delivers realistic UAV system and sensor simulations, including visible and FLIR imaging. MISSIM also incorporates Computer Generated Forces (CGF) with a scenario generator, simulating harsh conditions such as severe weather, low visibility, thermal variations, and challenging runway scenarios.

Versatile Training Capabilities

MISSIM offers a 6 Degrees of Freedom (6DOF) flight model, along with platform, system, and communication simulations, including Ground Data Terminal (GDT) and Air Data Terminal (ADT). Operators can train for both standard and emergency scenarios, with sessions able to be recorded for debriefing. The OneSim Instructor Operator Station (IOS) supports efficient session preparation and management, with the ability to save a large number of training sessions and scenarios.

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Key Benefits

- Enables "Train as you Fight" by replicating actual mission environments
- Cost-effective tactical training through high-fidelity simulation
- Supports flying procedures, from basic to advanced operational training
- Improves team coordination and individual proficiency
- Implements operational lessons throughout training

Key Features

- Full cockpit trainer for crew-oriented training
- Ground Control Station (GCS) with high-fidelity: Form - Feel - Function (FFF)
- High-end platform training with six degrees of freedom (6DOF)
- Electro-optic sensor simulation
- Auto Takeoff & Landing (ATOL) simulation
- Training for standard and emergency operations
- Simulates real-world environmental flight conditions
- Immersive and realistic battlefield arena
- System availability exceeding 95%

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