



Mission Simulators Fixed base and motion simulators



cueSim combines COTS technology with innovative software and hardware design to provide truly cost effective, high fidelity simulation products and services.

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cueSim is a member of the QinetiQ Group of Companies.

cueSim provides rotary and fixed wing mission simulators covering the complete range of fidelity for use in singleton, team and collective training.

Mission simulator fidelity can be selected according to the training need; solutions range from PC-based desk top simulators through to full mission and motion simulators.





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Introduction

Modern sophisticated military training requires that mission simulators have the capability to provide not only flight operations, procedures and singleton mission training, but also allow multiple aircrews to interact with each other, and computer generated forces to, provide comprehensive team and collective training.

cueSim's mission simulator range is the result of extensive research and trials with front line aircrew. Mission simulators can be provided at any level of fidelity and type representation, from low cost generic mission simulators through to full mission simulators (FMS) with motion, g-seats and immersive visual displays.

Mission simulators are provided with representative aural and visual environments; this includes sensor and Out-The-Window (OTW) displays, and a high fidelity aircraft flight model which is performance matched to enable procedures to be practised in the required regimes of ground and flight operations. All of this is provided inherently enabled to support the complex tasks of mission system training in a realistic and rich tactical environment and to prepare crews and units for combat operations in all weather conditions, during the day and night.



cueSim can provide different types and fidelities of mission simulator depending on the training need. We can accommodate the full range of training needs, including:

- Flight operations and procedures
- Mission rehearsal
- Normal procedures
- Emergency procedures
- System malfunctions
- Flight handling
- Tactics training
- Doctrine development
- NVG training
- Crew resource management
- Navigation and instrument flying

Benefits

cueSim's approach to modular hardware design and the maximum use of Commercial-Off-The-Shelf (COTS) technology means that upgrading or expanding systems after initial procurement is straight forward and cost effective.

All mission simulator solutions are inherently network enabled and connect to other local and remote entities using the industry standard DIS and HLA protocols.

cueSim has been heavily involved with the development of multi-player team and collective training solutions. This has resulted in the accumulation of a great deal of experience in providing affordable, optimized solutions for these applications, especially when the simulators are used in combination with our VANguard SE support toolset.



- High fidelity 6-DOF mathematical flight models, with option for aircraft flight test data gathering and incorporation
- Type representative cockpits with tailored fidelity
- Low cost generic mission station options
- Immersive, multi-channel, high resolution and wide field of view projected displays
- Multi-axis g-seat and g-suit options
- Electric control loading option using cueSim's Loadcue range
- DIS and HLA compliant
- 6-DOF motion using cueSim's Maxcue electric motion platform range
- Fully compatible with cueSim's VANguard SE toolset.

cueSim mission simulators were used extensively in the recent Composite Air Operation (COMAO) collective aircrew research trial undertaken by Defence Science and Technology Laboratories (DSTL), QinetiQ Ltd, the US Air Force Research Laboratory (AFRL), DRDC and the Royal Air Force on behalf of the UK MOD. cueSim simulators will also play a significant part in our contribution to the winning team (Team Active) for the UK MOD MTDS CCD project (Mission Training through Distributed Simulation).

cueSim Mission Simulators, options and features

- Rotary and fixed wing aircraft
- All aspects of mission support, from take-off to landing, in all weather and environmental conditions
- Exhaustive support for current weapons, stores and sensors
- NVG support available