



CAE Medallion™ -6000 Series

The CAE Medallion™-6000 series is the latest member in CAE's powerful Medallion image generator family. The CAE Medallion-6000 series combines the proven, industry-leading feature set and image quality of CAE Medallion-S™ with the power and capabilities of the latest commercial-off-the-shelf workstation graphics. The new CAE Medallion-6000 provides a highly modular, scalable and portable visual solution designed to satisfy your full range of military training needs.

As the latest member of the CAE Medallion family, CAE Medallion-6000 maintains full database and interface compatibility with CAE Medallion-S, thereby providing an attractive complement to current Medallion-S customers.

Features

CAE's Medallion-6000 includes the comprehensive feature set the Medallion family has pioneered for fast jet and rotary wing visual training, including:

- Sun, moon and stars ephemeris model, physics-based sky model, volumetric clouds, shader-based light points, dynamic shadows, particle-based weather simulation including rain, hail, and snow
- Full suite of special effects, including tracers, missile trails, explosions, smoke, rotor downwash, conforming craters and bullet impact
- Lifeforms simulation with suite of animations for soldiers, marshalls, and landing signal enlisted (LSE)
- Up to sea state 6 dynamic 3D ocean model with ship wakes, swell and wind lanes
- Comprehensive mission functions (height above terrain, collision detection, line of sight, laser ranging)
- Correlated sensor suite for FLIR, NVG, EVS, EO, Day TV and LLTV computed using sensor textures with 16-bit radiance values and advanced video post-processing
- Dynamic scene load management
- Highly scalable visual system entirely based on COTS workstation components
- Based on industry standards: Windows XP, OpenGL, OpenFlight
- Compatible with ultra-high resolution projectors (e.g. LCoS, Laser)
- Highest scene density on the market
- Fully compatible with CAE Medallion-S interfaces and databases
- Low latency (< 50 ms)

Common specifications

- Windows XP operating system
- COTS graphic card
- Sustainable iteration rate: 60 Hz
- Simulation polygonal capacity: 100,000 at 60 Hz
- Light point capacity: 20,000 at 60 Hz
- Internally generated blend zones
- 1024 addressable moving models
- Global textures to over 24 levels of detail (LOD)
- Caching of over 800 MegaTexels
- 256-level alpha transparency
- Fully projected light lobes
- HUD overlay support
- Advanced shader-based 3D engine
- 16-bit radiance computation with advanced sensor post-processor (SPP)
- OpenGL graphics interface
- Embedded non-linear dome mapping (NLIM) for curved surface projection
- Analog and digital video output modes
- CIGI 3.2 support





Capabilities	Model 6100	Model 6200	Model 6400
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Application type	<ul style="list-style-type: none"> - Stealth view display - FTD/CPT - Role playing station - Low-end OTW - Sensor simulation 	<ul style="list-style-type: none"> - Full-mission simulator - Mission rehearsal - High-end OTW 	<ul style="list-style-type: none"> - Full-mission simulator - Mission rehearsal - High-end OTW
Number of channels	1 to 8	1 to 64	1 to 64
Support of multiple-inputs projectors	N	N	Y
Full-scene anti-aliasing (max.)	16x	32x	32x
Resolution (max.)	2560x1600 NI @ 60 Hz	2560x1600 NI @ 60 Hz	8Mpix NI @ 60 Hz
Anisotropic filtering (max.)	16x AF (angle invariant)	16x AF (angle invariant)	16x AF (angle invariant)
Resolution/Anti-aliasing/Anisotropic filtering (typical application)	1920x1080 NI @ 60 Hz 8x AA, 4x AF	1920x1080 NI @ 60 Hz 16x AA, 8x AF	2048x1536 NI @ 60 Hz 16x AA, 8x AF
Genlock & frame Lock	Y	Y	Y
Centralized database server	Y	Y	Y
CAE Medallion / TOPSCENE Data server support	Optional	Optional	Optional
Common database (CDB) support	Optional	Optional	Optional
Dynamic shadow server	N	Optional	Optional
HLA support	Optional	Optional	Optional



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