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QUANTUM3D INDEPENDENCE IMAGE GENERATION SOLUTIONS SELECTED BY INDRA SYSTEMS FOR U.S. MARINE CORPS AV-8B WEAPONS SYSTEMS TRAINER UPGRADE

Quantum3D COTS IDX 4000 ER IG Solution Provides High-Fidelity, Realtime Visual and Sensor Simulation Solution Using NAVAIR NPSI Databases for AV-8B Radar Night-Attack Weapons System Trainers

ORLANDO, FL—**IITSEC 2007–November 26, 2007**—Quantum3D[®], Inc., a leading provider of Commercial off-the-Shelf (COTS), open-architecture, realtime visual computing solutions, announced today that Indra Systems, Inc., has selected Quantum3D Independence[®] IDX 4000 ER Image Generator (IG) Solutions as a critical component of Indra's upgrade of the United States Marine Corps AV-8B Radar Night Attack Weapons System Trainers (R/NAWSTs) at MCAS Cherry Point and MCAS Yuma. The upgraded training devices will support training for all AV-8B missions, incorporating high-fidelity simulation of the entire sensor suite deployed on the all-weather AV-8B aircraft, and will operate in both stand-alone and networked environments.

The IDX 4000 ER IG Solutions provide fully correlated scenes for the eight out-the-window channels of the AV-8B R/NAWST M2DART display, as well as the AV-8B's Navigation FLIR, LITENING Advanced Targeting Pod and Angle Rate Bombing System. The high-fidelity, physics-based simulation of the AV-8B sensor suite is provided via the IDX 4000 ER IG system's Quantum3D Enhanced Sensor Simulation Technology (QUEST[™]). QUEST employs advanced pixel and vertex shader technologies and Quantum3D's realtime implementation of JRM Technologies[™] SigSim[™] to provide MODTRAN-4 compliant, band-accurate, at-aperture scene generation with advanced, low-latency sensor-post processing for sensor effects and symbology. The IDX 4000 ER IG will also render enhanced nighttime scenes to stimulate operational night-vision goggles, which will provide improved training fidelity compared to simulated NVG approaches that employ simulated NVGs and head trackers.

"Indra has a long history of providing quality AV-8B training systems to the USMC," said Brent W. York, Indra's Director of Simulation. "We're pleased that Quantum3D has partnered with Indra to continue that legacy, and I'm confident in Quantum3D's technical solution and ability to deliver exactly what the Marines need."

As part of its deliverables, Quantum3D will enhance and publish Navy Portable Source Initiative (NPSI) databases—a key element of the AV-8B program. Quantum3D Vice-President of Technical Marketing, Stephen Gersuk, commented, "Historically, the armed forces have purchased proprietary synthetic environment databases with each simulator, locking themselves into the same IG provider for follow-on systems or enhancements. Now, NPSI databases are being promoted and maintained in open formats under government control, and agencies may select the best technology for each training system requirement without being held hostage to legacy systems. It's a new paradigm being led by the Navy, with similar efforts by the USAF and the Army, that benefits warfighters and taxpayers alike—and Quantum3D supports it enthusiastically."



USMC AV-8B Harrier II
Photo Courtesy USMC



**Quantum3D Independence
IDX 4000 ER IG Solution with
Noise-Reduced 35U Cabinet**

Quantum3D President and Co-Founder, Ross Q. Smith, said, "This contract extends our participation with NAVAIR on the TSC II omnibus contract. We are delighted to have a new aviation-training solutions partner in Indra, a company with expertise in AV-8B training requirements and integrating advanced IG solutions that makes the selection of Quantum3D and the IDX 4000 particularly satisfying for us."

About Indra

Indra is a global company with more than 20,000 employees serving both military and commercial customers. Its products and services include the design and manufacture of simulation systems, transportation and traffic solutions, automated test equipment and air traffic control systems, in addition to on-site engineering and technical support services. For more information, please visit www.indra-systems.com.

About Quantum3D

Quantum3D is an industry-leading small business supplier of COTS, open-architecture, realtime visual computing software and hardware products for the Embedded Visual Computing (EVC), Deployable High Performance Computing (DHPC), Visual and Sensor Simulation and Training (VSST) and Embedded Training (ET) markets. Quantum3D's products include advanced Image Generation (IG) solutions, realtime scene management software and synthetic environment content, FAA DO-178B Level A certifiable visual computing application development and deployment software, and tactical, embedded and industrial visual computing systems and subsystems for C2/C4ISR, machine vision, sensor processing, unmanned vehicle operator control and embedded training applications. Quantum3D is a privately held company headquartered in San Jose, California. For more information, please visit www.quantum3d.com.

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The Independence IDX 4000 ER IG Solution and other Quantum3D realtime visual computing solutions for Institutional Visual and Sensor Simulation and Training (VSST) and Embedded Training (ET) applications will be demonstrated in the Quantum3D Booth (#1501) and select partner booths at the 2007 Interservice/Industry Training, Simulation and Education Conference (I/ITSEC) held 26-29NOV07 in the Orange County Convention Center in Orlando Florida. For an appointment, please email salesinfo@quantum3d.com or call +1 (408) 361-9999 x 2.

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