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Boeing Selects Quantum3D Independence IG For Apache Longbow Helicopter Engineering Development Simulator

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ORLANDO, FL -- (MARKET WIRE) -- Nov 29, 2005 -- Quantum3D®, Inc., a leading provider of COTS, open-architecture, realtime visual computing solutions for the Visual and Sensor Simulation Training (VSST) and Embedded Visual Computing (EVC) markets, announced today at the Interservice/Industry Training, Simulation and Education Conference (I/ITSEC booth No. 1873) that Boeing Mesa selected the Quantum3D Independence® IDX 2500S ER Image Generator (IG) for the Apache Block III Engineering Development Simulator (EDS).

The Apache EDS is the primary man-in-the-loop engineering simulator for the AH-64D Apache Longbow helicopter. The EDS has two full-scale cockpits mounted in stationary 20-foot domes and consists of actual Apache flight software and hardware. The EDS is used to test and validate technologies and techniques under high-fidelity simulated combat conditions.

Quantum3D has delivered an initial IDX 2500S ER IG Solution to Boeing equipped with multiple high-resolution Out-the-Window (OTW) visual channels and QUEST™ enabled sensor simulation channels. QUEST is Quantum3D's Enhanced Sensor Simulation Technology -- a novel combination of software and hardware technologies that provides physics-based at-aperture and post-aperture high-fidelity sensor simulation with an end-to-end pipeline that maintains 16-bits of dynamic range, which is the highest fidelity available in the realtime visual computing marketplace today. QUEST includes Quantum3D's viXsen™ plug-in to Mantis™, which provides radiometrically correct rendering of the material classified synthetic environment including cultural features and moving models within the appropriate waveband of the sensors being simulated. QUEST also includes parallel rendering and low-latency pixel composition functions for enhanced performance, full scene anti-aliasing and high availability, combined with programmable high-fidelity sensor effects and OpenGL® based reticles and symbology. With QUEST-enabled channels, Independence IDX 2500S ER IGs can support simulated sensor channels with up to two megapixel resolutions at 60 Hz sustained update rates while providing an industry-leading 16-bit dynamic range throughout the scene generation and post-processing stages. QUEST also provides host-selectable hardware-accelerated sensor system effects such as blur, noise, and AC Coupling, as well as near zero-latency reticle and symbology mixing.

For the Apache EDS, the IDX 2500S also features a customer-specific timing format used to drive the actual Apache aircraft sensor displays that feature 875-line interlaced timings. Quantum3D has also enhanced select IDX 2500S sensor simulation features for Boeing to address the unique requirements of the Modernized Target Acquisition and Designation System (M-TADS) and the Modernized Pilot Night Visioning System (M-PNVS). Examples of these enhancements include modified A/C Coupling capabilities and Continuous Zoom functionalities for narrow field-of-view sensor applications. Independence IDX

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2500S ER IG Solutions for correlated sensor simulation and OTW training applications are on display at the Quantum3D I/ITSEC booth No. 1873 and in select partner booths.

"Independence provides key technologies that allow aircraft software to be tested in the EDS prior to actual aircraft flight testing," said Dale Macpherson, Boeing manager of Rotorcraft Operations Analysis.

"The Block III upgrades to the AH-64D Apache Longbow represent significant enhancements to the platform's capabilities, which will provide the air crew with greatly improved mission effectiveness, but which also provide a unique challenge from a simulation standpoint because of the overall fidelity that's required," said Ross Q. Smith, Quantum3D co-founder and president. "All of us at Quantum3D are pleased that Boeing has again selected Independence for such an important system and we look forward to working with the Boeing team to deliver this mission-critical capability."

About AH-64D Apache Longbow

Manufactured by Boeing, the AH-64D Apache Longbow is one of the most advanced multi-role combat helicopters in the world. The Apache is in service with the U.S. Army and is flown by nearly a dozen international armed forces. For more information on the Apache, please visit www.boeing.com/rotorcraft/military/ah64d.

About Quantum3D

Quantum3D develops and markets COTS, realtime, open-architecture IG solutions, embedded visual computing systems and subsystems, development software and support services for the VSST and EVC markets and is the exclusive supplier of NVIDIA® graphics technology for the embedded military and aerospace visual computing market. Quantum3D is a privately held company headquartered in San Jose, California, with development centers located in Phoenix, AZ, Huntsville, AL, and Orlando, FL. For more information about Quantum3D and the Quantum3D family of open-architecture visual computing solutions, please see www.quantum3d.com.

Quantum3D and Independence are registered trademarks of Quantum3D. QUEST, Mantis, and viXsen are trademarks of Quantum3D, Inc. All other trademarks are the property of their respective owners. Quantum3D viXsen features the SigSim™ library from JRM Technology. Independence IDX 2500S ER, QUEST, and viXsen contain technology that is subject to U.S. Export Control and which requires authorization by the U.S. Government for export to foreign countries. For more information, contact Quantum3D.

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