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## General Dynamics Selects Quantum3D Thermite Tactical Visual Computer for U.S. Marine Corps' Expeditionary Fighting Vehicle Embedded Training Demonstrator

*Quantum3D Thermite TVC-2.0 Model 3500 to Support Embedded Training Demonstration and Testing in Next Generation USMC Amphibious Vehicle*

### FORT LAUDERDALE, AUSA Winter–March 6, 2007–

Quantum3D, Inc. a leading provider of Commercial Off-the-Shelf (COTS), open architecture, realtime visual computing solutions, today announced that [General Dynamics Land Systems-Amphibious Systems](#) (GDLS- Amphibious Systems) has selected the Quantum3D [Thermite Tactical Visual Computer](#) (TVC) Version-2.0 to support embedded training testing and demonstrations in the [U.S. Marine Corps Expeditionary Fighting Vehicle \(EFV\)](#).

Designed to replace the USMC's venerable Amphibious Assault Vehicle, the EFV represents the USMC's future primary means of providing tactical mobility for Marine Rifle Squads during amphibious operations and follow-on ground combat operations ashore. The EFV will be fielded in personnel and command variants able to deliver lethal firepower from 30mm automatic cannon in the personnel variant and with both variants hosting a 7.62 mm machine gun.

In support of the EFV program, General Dynamics has integrated three (3) Thermite TVC Model 3500 systems into the EFV prototype unit for demonstration and testing of the EFV Embedded Training concept. Thermite's PC compatibility, small form factor and weight (less than 1 kg per system), Mil-Spec ruggedization, support for vehicle power and ease of mounting, facilitate the ready adaptation of the program's institutional training software and curriculum to the embedded training mission. Thermite's advanced graphics and computational power will enable the crew to conduct synthetic environment training in their vehicles with the same fidelity as provided in the program's institutional trainers. The EFV team is also examining other onboard uses for the Thermite when the TVC is not supporting embedded training.

"The EFV will conduct some of the most challenging missions in expeditionary warfare," said Ross Q. Smith, Quantum 3D president. "Quantum3D is proud that General Dynamics selected Thermite to support a demonstration of the vehicle's embedded training system. Quantum3D has a long history in working with

### News at a Glance

- ❖ Thermite TVC is the first COTS, small form-factor embedded computer that provides advanced graphics and video processing along with high-performance computing and extensive I/O for extended environment PC-based applications.
- ❖ Thermite allows vehicle crews to train in the field with the same fidelity and software as they achieve in institutional trainers
- ❖ Thermite's multi-role capabilities enable crews to perform multiple visual computing intensive missions including embedded training, mission rehearsal and deployed C4ISR.



**USMC Expeditionary Vehicle (EFV)**  
*Image Courtesy General Dynamics Land Systems-Amphibious Systems*



**Image Courtesy Multigen Paradigm**

GD on embedded training and we look forward to a long-standing relationship with General Dynamics throughout the life cycle of the EFV program," he added.

#### **About Thermite**

The Thermite TVC is the first multi-role, small form factor, COTS Tactical Visual Computer specifically designed to enable PC-based embedded training, mission rehearsal, C4ISR and C2 applications to be deployed in both vehicle-based and man-wearable extended environments. Thermite TVC supports open architecture PC operating systems and features advanced embedded computing, mobile graphics, video capture and display, low-power consumption for long battery life, and extensive I/O in a lightweight, conduction cooled, alloy enclosure for operation in Mil-Std-810F and Mil-Std-461E harsh environments. These capabilities allow system integrators to rapidly bring the power of PC-based workstation applications to the deployed environments for both war fighters and first responders.



**Quantum3D Thermite TVC-2.0 Family**

#### **Thermite at AUSA Winter**

The Thermite family of Tactical Visual Computers will be on display in the Quantum3D booth (No. 330) and select partner booths at the [AUSA Winter](#) 2007 symposium and exhibition in Fort Lauderdale, FL, March 7-9. For information on Thermite models, pricing and availability, please contact [salesinfo@quantum3d.com](mailto:salesinfo@quantum3d.com).

#### **About Quantum3D**

Quantum3D develops and markets COTS realtime, open-architecture [Image Generation](#) (IG) solutions, [Embedded Visual Computing](#) (EVC) systems and subsystems, development software and support services for the synthetic environment visual and sensor simulation and training and tactical and industrial visual computing markets. Quantum3D is a privately held company headquartered in San Jose, California, with development centers located in Phoenix, AZ, Huntsville, AL, and Orlando, FL and with sales and logistics in Europe via Quantum3D, Ltd., located in Reading, UK. For more information about Quantum3D real-time visual computing solutions, please visit [www.quantum3d.com](http://www.quantum3d.com).

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