

US Marines Amphibious Vehicle Competition: DSE's Rugged Display and Video Distribution Hub Used in Winning Model

Digital Systems Engineering is proud to be the featured rugged display and video distribution system in BAE System's recent award-winning Amphibious Combat Vehicle (ACV).

Scottsdale, Arizona ([PRWEB](#)) July 12, 2016 -- In a competition by the US Marines, defense contractors developed new prototypes for next generation Assault Amphibious Vehicles. BAE's model won against three other manufacturers, resulting in a contract worth \$103.8 million for the Engineering, Manufacturing and Development (EMD) phase of the Amphibious Combat Vehicle (ACV) 1.1 program.

DSE was chosen for their ability to modify an existing COTS (commercially available off the shelf) product quickly and cost effectively. The standard MSM212VR product was redesigned to incorporate nickel-zinc coated connectors in place of cadmium plated versions. Additionally, DSE designed and manufactured a custom video distribution product (VH3) without impacting the program schedule.

The amphibious vehicle delivers substantial capability improvements that not only satisfy the Marine Corps' current needs, but also meets any future goals and potential challenges.

"Operator feedback and experience from other ground combat platform design was further applied to the final design and functionality of the driver's instrument panel and gunner's controls that include push-button automation with a digital architecture," John Swift, BAE's ACV program manager, said.

With exceptional ground mobility and protection, the ACV solution:

- * Has suspended interior seat structure for 13 embarked Marines
- * Blast mitigating positions for a crew of three
- * Improved survivability and force protection over currently fielded systems
- * Is equipped with a new 6-cylinder and 700HP power pack, providing a significant power increase
- * Weighs 63,000 pounds and has a payload capacity of 6,000 pounds
- * Can reach speeds of 65 mph on paved roads, 6 knots in the open ocean
- * Has a range of 350 miles or 10 nautical miles at sea followed by 200 miles on land

BAE hand-picked DSE's rugged MSM212VR MIL-Spec display and newly designed video distribution hub (VH3) to maintain their high standard of technology, durability and efficiency in the vehicle prototype. Each EMD vehicle will be outfitted with two displays and a video hub to bring situational awareness to each of the crew members aboard. Both of these COTS products can be found on DSE's website at <http://www.digitalsys.com>.

About Digital Systems Engineering (DSE): Digital Systems Engineering (DSE) offers custom design, engineering and manufacturing of rugged mobile mil spec and industrial flat-panel LCD displays and computers for multiple markets—primarily the military, security and industrial.

Since 1995, as a privately held U.S.-owned small business (FAR 19.102), DSE has achieved a worldwide reputation for excellence in the design and manufacture of leading edge, technology driven display and computer products. Learn more about DSE at <http://www.digitalsys.com>.



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