

# FAAC Military Simulator Products: USMC Operator Driving Simulator USMC ODS

## USMC ODS



One fixed-site ODS, five single-ODS mobile systems and 16 dual-ODS mobile systems have been fielded, with 10 additional USMC ODS systems in various configurations to be delivered through 2009. Systems have been delivered to Active and Reserve units located in CONUS and Hawaii with future CONUS and OCONUS deliveries expected. FAAC is continuing IR&D efforts to expand the capabilities of the ODS product line.



In 2005, the U.S. Marine Corps selected FAAC to expand MTRV driver training beyond the schoolhouse to operational and Reserve units. The Marine Corps chose FAAC's *Military Operator Driving Simulator (ODS)* design, widely used by the U.S. Army to train motor transport operators in the M915, M939, FMTV, PLS, HET and HEMTT. The ODS design utilizes high-fidelity vehicle dynamics software and interchangeable dash panels. Vehicle simulations include appropriate payloads, trailers and liquid loads. The USMC ODS program has extended vehicle configurations to include the Marine Corps MTRV, M1114 Up-Armored HMMWV, Cougar Category I MRAP and Buffalo. All vehicle simulations include simulated appended armor panels which provide realistic restrictions to the driver's field of view, while the vehicle dynamics software modifies the handling characteristics to account for the changes in weight and center of gravity.

## INTERCHANGEABLE DASH MODULES



Both on-road and off-road driving areas are included as well as over 100 scenarios designed for military vehicle driver training. Additional tactical scenarios were developed specifically to support M1114 driver training. The curriculum has lesson plans suitable for drivers ranging from beginner to advanced tactical driving. With a wide variety of environmental conditions (day, night, rain, snow, fog, sandstorm) and virtually any type of terrain imaginable, the USMC ODS system will provide drivers with experience in any situation they are likely to encounter.



While FAAC's ODS systems are available with 6-DOF full-motion platforms and a range of visual display options, the Marine Corps opted for 3-DOF motion-seat systems and 3-channel 180°H X 45°V field of view visual systems. The majority of USMC ODS systems are being fielded in single-ODS and dual-ODS mobile configurations in FAAC's self-contained fifth-wheel trailers. The trailers range from 38 to 44 feet long and can operate on shore power or built-in generator. All trailers provide HVAC and room for parts and spares storage. FAAC's Mobile ODS capability provides a highly flexible training environment for the Marine Corps.



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