AV-8B DEPLOYABLE MISSION REHEARSAL TRAINER (DMRT)

A self-contained flight training and mission rehearsal device

The DMRT is a self-contained flight training and mission rehearsal device designed specifically to meet the USMC AV-8B’s requirement for a deployed training capability that focuses on key Training and Readiness (T&R) Requirements. The individual components that make up the DMRT are compact and transportable in cases. The cases are light enough to be carried by two people, lifted up ladder wells, and through narrow ship passageways. The DMRT is powered with a single standard power outlet and is a 6’x6’x6’2” footprint fully assembled. The DMRT deploys with the Marines aboard amphibious ships and will be positioned in the ready rooms. The DMRT can be deployed anywhere as long as the infrastructure is in place. The simulator utilizes touch screens to display instruments, switches, knobs, cockpit indicators and avionics, and includes realistic flight modeling for the out the window display. Up to four DMRTs can be networked for multi-aircraft mission rehearsal and training scenarios. The DMRT is designed with an open architecture interface that enables future technology upgrades, enhancing the performance and reliability.

THE DMRT PROVIDES DEPLOYED AV-8B PILOTS THE FOLLOWING TRAINING CAPABILITIES

- Multi-aircraft mission rehearsal with real terrain and weather modeling
- Radar operation
- Weapons employment
- Hands on Throttle and Stick (HOTAS)
- Advanced Multi-Purpose Color Display (AMPCD) operation
- Mission Systems Computer (MSC) operations
- Ability to integrate adversary aircraft
- Carrier landings and takeoffs
- Multiple aircraft on the same ship conducting landings

BENEFITS OF THE AV-8B DMRT

- Best practices developed for the DMRT allow the device to be developed for other aircraft configurations, with the same footprint and power requirements
- The platform, Out the Window displays, hardware and Instructor Operator Station (IOS) can easily be reused with multiple aircraft types and are designed to support rapid prototyping
- The HOTAS components can easily be swapped out to provide high fidelity replication of the target aircraft
For further information on this exhibit, or on business opportunities with NAWCTSD, please contact our Business Support Team by telephone at (407) 380-4903, by e-mail at orlo_businesssupportteam@navy.mil, or by mail at Business Support Team, NAWCTSD, 12211 Science Drive, Orlando, FL 32826.