AH-64 Apache simulation

Mission training in a realistic environment is essential for pilot readiness. multiSIM created AH-64 Apache simulation with many of the avionics systems and sensors modeled accurately, and a flight model that represents the handling and performance of the real helicopter. For mission and pilot readiness training, the Helmet Display System (IHADS) and head slaved sensory images (FLIR) are rendered precisely, and so is the Performance page. The flight model is accurate enough to train helicopter handling and situational awareness in e.g. mountain flying and auto-rotation.

The simulation is distributed over a computer network using D-SIM and it uses D-WORLD as the shared virtual mission environment. Through D-SIM, new software and hardware can be easily coupled to the Apache simulation. This makes it the ideal solution for use in existing training centers, or to extend the simulation with new avionics and sensors.

Due to the open-simulation solution of D-SIM, all variables in the Apache simulation are accessible for customers and their developers. This enables seamless integration in distributed multi-ship simulation using protocols like DIS and HLA. It also enables the development of custom training and research solutions, like the use of eye-tracking and learning analytics.

Our AH-64 Apache simulation can be integrated in any type of training device, ranging from full cockpit devices with multi-channel dome projection to VR headsets. multiSIM's Pilot VR Station provides a very cost effective solution. Typical training applications are:

- human factors training (situational awareness, hypoxia, etc.)
- multi-ship multi-type mission training
- radio comms. training
- JTAC training

features

- ► multi-ship and multi-type in one shared world
- ► excellent for comms. training in large missions
- ► can be integrated in existing software and hardware through D-SIM
- ► scalable to full-dome projection, VR headsets, or desktop training
- ► accurate flight model, including SCAS, developed with Delft University of Technology

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open-simulation for training & research