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ACTIVE DENIAL SYSTEM (ADS) ADVANCED CONCEPT TECHNOLOGY DEMONSTRATION (ACTD)

[Click here to watch a preview of Discovery Channel's "Future Weapons" featuring the ADS.](#)

[Click here to view new Military Utility Assessment video.](#)

The Active Denial System (ADS), an Advanced Concept Technology Demonstration (ACTD), provides a new non-lethal capability helping to fill the gap between the 'shout' or 'shoot' alternatives faced by our troops. It provides numerous advantages over existing non-lethal weapons, such as extended range and extremely small risk of injury, and it has the potential to provide a tremendous new capability for U.S. forces in support of today's complex missions. Learn more about ACTDs at <http://www.acq.osd.mil/actd/>.

The Active Denial Technology Hardware Demonstrator (ADS System 0) represented the first integration of the key technology elements such as the millimeter wave source, cooling system, and antenna, among others. In 2001, ADS System 0 successfully demonstrated that the technology could achieve desired effects at distances beyond small arms range, and set the stage for the next evolution of the system, ADS System 1. This next step involved the integration and packaging of all the system's components into a mobile, more militarized system. The configuration chosen was the High Mobility Multi-purpose Wheeled Vehicle (HMMWV). In 2002, the ADS System 1 was placed under an Advanced Concept Technology Demonstration (ACTD) program, a DoD process to rapidly move mature technologies into the hands of the war fighter for military evaluation.

Under the ACTD Program, the Air Force Research Laboratory produced a HMMWV-mounted prototype, which was used in a series of three Military Utility Assessments (MUA) - Creech AFB in August 2005, Ft. Benning in September 2005, and Eglin AFB in April 2006. These MUAs tested the performance of the prototype in a variety of simulated operational scenarios.

The prototype ADS System 1 is now in the Extended User Evaluation phase, which will run throughout FY07. At the same time, a modular version (ADS System 2) was developed and is scheduled to be complete in Spring 2007. The ADS System 2 is designed to operate in higher temperature environments and is able to operate at either a fixed site or on the back of a tactically mobile truck. The System 2 millimeter wave energy beam is identical to that of System 1.



ADS ACTD System 1



ADS ACTD System 2



ADS ACTD System 2

MORE ADS INFORMATION



MUA video



Active Denial System Fact Sheet



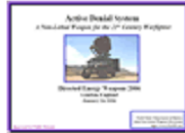
ADS Frequently Asked Questions October 2007



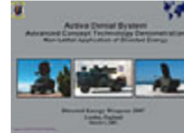
Active Denial System Information Posters (15.6 MB)



ADS Video - October 2006



Active Denial System presentation from Directed Energy Weapons 2006 conference held in London, England, 24 January 2006.



Active Denial System presentation from Directed Energy Weapons 2007 conference held in London, England, 1 March 2007.



ADS Media Day January 24, 2007



ADS ACTD Team Wins Prestigious Award



ADS Exposure Incident

ADS MEDIA DAY — JANUARY 24, 2007



ADS Individual Exposure Video



ADS Media Exposure Video



ADS Military Scenario Video



ADS Selective Targeting Video



ADS Universal Effect Video



ADS Media Day January 24, 2007

Joint Services Website (DoD, USA, USN, USMC, USAF, USCG, SOCOM)



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