

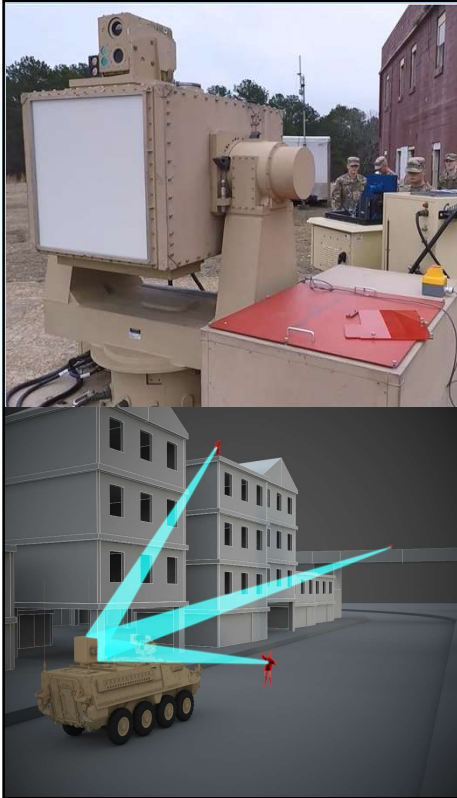


Dept. of Defense Non-Lethal Weapons Program

<http://jnlwp.defense.gov/>



Directed Energy Portfolio: Active Denial Technologies



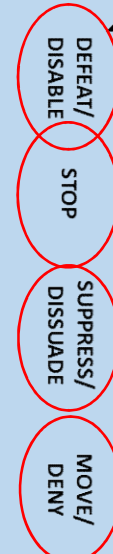
Active Denial Technology (ADT) is a non-lethal weapon system which disrupts hostile activities and can deny personnel from remaining in specific areas without causing permanent physical harm or collateral damage.

ADT forces targeted individuals to flee an area by creating an intolerable heating sensation under the skin using radio frequency millimeter wave energy.

OPERATIONAL IMPACT: Provides agile options that allow the Joint Force to compete, deter and win in complex security environments, such as:

- Defending the Homeland
- Deterring aggression
- Defending U.S. interests below armed conflict
- Full-scale war

Lethal Force



DETER

HAIL AND
WARN

Military
Presence

ADT systems best arm the Services with an effective means to deter and suppress persons. It may be used for force application and force protection missions, including enabling maneuver, patrol and convoy protection, perimeter security and other defensive and offensive operations from both fixed-site or mobile platforms.

Future Efforts:

- Operational assessments
- NATO case studies
- Investigate man-portable ADT systems
- Advance SWAP-C² to gain efficiencies in: prime power generation, cooling alternatives and antenna design
- Incorporate ADT with other technologies as a system-of-systems for broader applications
- Leverage Human Effects Research to inform optimal system design parameters

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