

# PROVEN THERMAL SOLUTIONS FOR DIRECTED ENERGY WEAPONS

Mission Ready Thermal Solutions for the Military

## INTEGRATED THERMAL STORAGE FOR GROUND-BASED AIR DEFENSE SYSTEM

### CASE STUDY: THERMAL STORAGE FOR MILITARY APPLICATION

In support of the Navy's Ground-Based Air Defense Directed Energy On-The-Move (GBAD) program, Advanced Cooling Technologies, Inc. (ACT) developed an efficient, lightweight, compact thermal storage and management subsystem. The system was principally developed for a vehicle mounted air defense laser system to defeat low observable/ low radar



cross section threats to the Marine Corps, specifically Unmanned Aerial Systems. The system removes waste heat from the laser commensurate with available power and other engineering constraints. ACT designed, tested and delivered a full-scale cooling system that can directly integrate with the High Energy Laser.

This is one of several Directed Energy Systems that ACT has developed demonstrating our core strength in heat transfer and thermal management for transient high power applications. For more information on ACT's Military applications, visit [www.1-ACT.com/Markets/Military](http://www.1-ACT.com/Markets/Military).

**“GREAT SUPPLIER WITH EXCELLENT MANAGEMENT AND ENGINEERING TEAM.  
ACT HAS AN EXCELLENT AND HIGHLY CAPABLE TEAM THAT PROVIDES  
OUTSTANDING SERVICE.” - DEFENSE PRIME CUSTOMER**

No matter where you are in your project,  
ACT can help. Contact us for your  
thermal management needs.

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