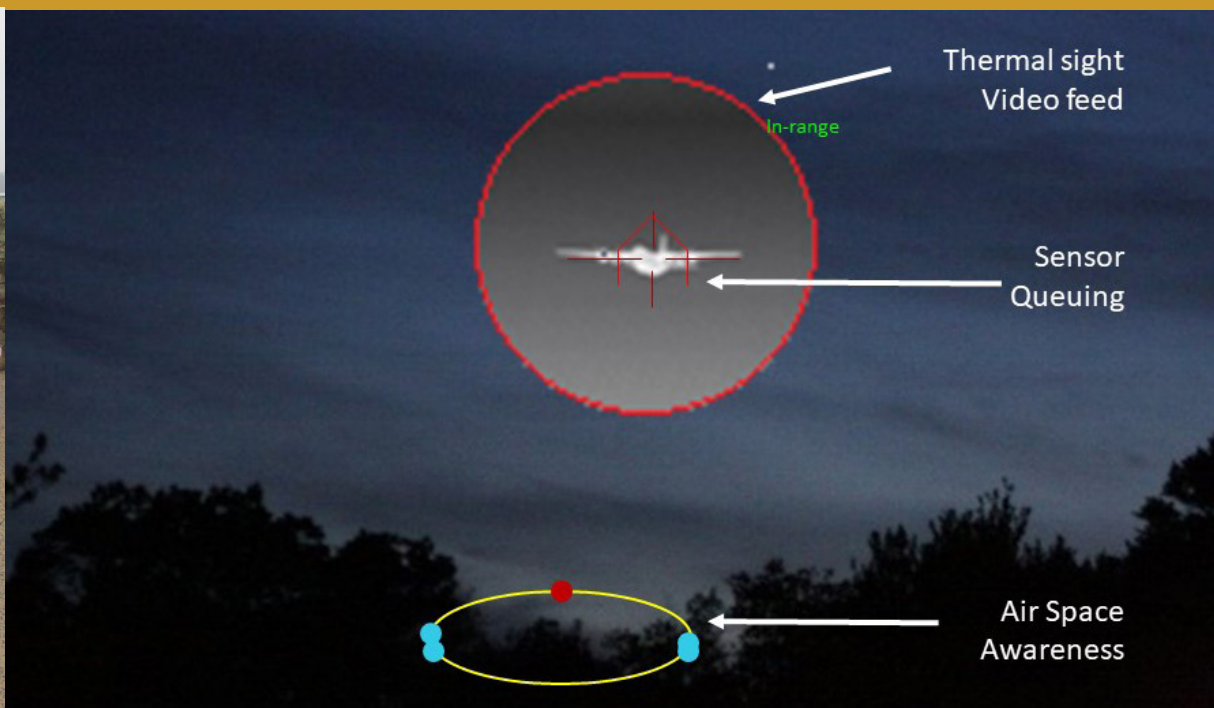




ENHANCED TARGET ACQUISITION KIT (ETAK)



ETAK provides day/night and degraded visual environment target acquisition and tracking for man portable systems

ETAK is designed to leverage a Soldier's existing combat equipment to provide air space situational awareness, early warning, and rapid sensor assisted acquisition and tracking capabilities to dismounted Soldiers over tactical radio networks. The kit was developed in two increments, a rail sight mount for the weapon, and a sensor-based cueing system. In tandem, the kit cues the Soldier to the vicinity of the target using the sensor and then enables positive identification of the target via the night optic. ETAK capitalizes on Army investments while leveraging the latest generation night optics combined with the latest in augmented reality display technology. ETAK is field mountable/dismountable and does not modify the legacy capabilities of the system.

Key Takeaways

- Improved defense of Army forces Worldwide
- Enhanced day/night/low-vis situational awareness, acquisition, and engagement capability
- Digital fire control for man portable systems
- Leverages Soldiers' existing combat equipment
- Leverages existing Army Training programs
- Minimal added weight, common power sources





The U.S. Army Training and Doctrine Command Capability Manager for Global Ballistic Missile Defense (TCM GBMD) Prototyping and Experimentation Branch developed this capability from concept to prototype demonstration. In coordination with multiple program executive offices, Enhanced Target Acquisition Kit, or ETAK, leveraged existing equipment, government manufacturing capabilities, and commercial hardware to rapidly produce an inexpensive prototype.

The Prototyping and Experimentation Branch leveraged the Air and Missile Defense Prototyping Framework to integrate Soldiers' existing equipment and tactical data feeds to rapidly produce and demonstrate a prototype in field conditions. This modular framework is multi-platform, evidenced by repurposing tactical message processing modules built for Microsoft Windows systems and reusing them within the Google Android operating system.

This technology is currently being assessed by operational units to address gaps in current systems. An operational assessment is scheduled for fiscal year 2019.



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