

Adaptive Land Enhanced Raytheon Radar Technology ALERRT



The small, portable ALERRT™ sensor is ideal for securing the perimeter around a high-value asset.

Benefits

- Provides greater than 100-degree asset coverage per sensor
- Easily networked for 360-degree coverage
- Detection range of 100 meters and beyond
- Lightweight for maximum portability
- Mountable on tripods, fences, building structures, etc.
- Utilizes standard interfaces for data transfer
- Low power consumption

Portable Security Perimeter

The Adaptive Land Enhanced Raytheon Radar Technology (ALERRT) sensor is a small, portable and lightweight sensor developed by Raytheon Integrated Defense Systems (IDS) for perimeter security. Weighing approximately 2 lbs, the ALERRT sensor attaches to tripods, fences and buildings, enabling a variety of deployment options for diverse perimeter protection scenarios.

360-Degree Coverage

Each ALERRT sensor covers greater than a 100-degree arc and is able to detect the presence of people and vehicles out to 100 meters and beyond. For complete perimeter protection, four sensors can be networked to provide

overlapping 360-degree coverage. Moreover, additional sensors can be arranged and linked to establish a perimeter for multiple objects in various configurations.

The system can also be programmed so that the user(s) may be inside the security perimeter without triggering an alarm.

Concept Evolution

The ALERRT sensor was initially a Raytheon developmental program of a small millimeter wave multi-beam radar. Now, the next-generation of this capability greatly improves upon the original concept, resulting in extended range and greater security.

Quick Alert System

In addition to the ALERRT sensor, an overall system may include a communication, control and display system and various auxiliary equipment, including tripods, batteries and cables. Together they provide the user with the ability to monitor a perimeter at a glance. Upon detection of intrusions, the system immediately alerts the user and displays the intrusions relative to the protected asset.

Since the ALERRT sensor is compact and lightweight, it is very easy to transport and configure on site. In fact, the system can be fully set up and disassembled by one person.

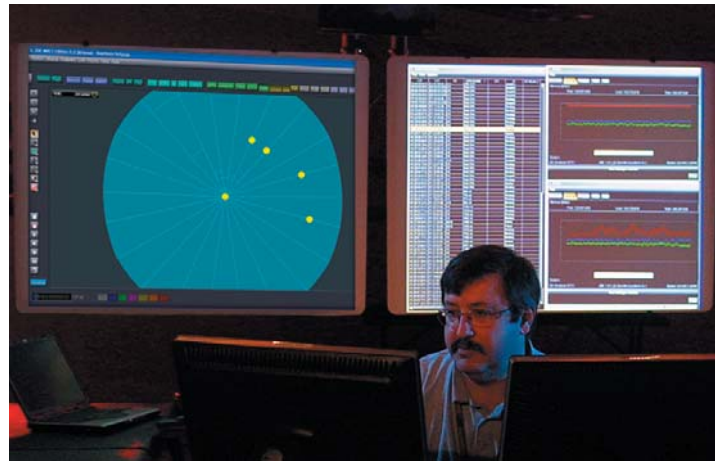
High-Value Asset Protection

Raytheon IDS' Engineering and Joint Battlespace Integration business areas continue to develop the ALERRT sensor and integrate it into larger surveillance systems and sensors for high-value asset protection and intrusion detection. The technology is applicable for fence line, fixed facilities and commercial applications where cleared zone security is a consideration.

The ALERRT sensor was designed for the Department of Defense as a low-cost solution to protect high-value assets. It has the potential and flexibility to be deployed and networked with other sensor systems for a variety of applications where perimeter security is a concern.

Additional ALERRT Sensor Information

- Wide area of azimuth coverage
- Ability to restrict the field of view in multiple azimuth regions
- Optimized to extend battery life
- Small size: 7.3 in. x 3.5 in. x 2.0 in. (height x width x depth)



If an intruder is detected inside the perimeter, the user is immediately alerted.



An ALERRT unit is easily mountable on tripods, fences and buildings.



An ALERRT unit only weighs about 2 lbs.

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