

Mobile Nuclear Radiation Detection System



The sports utility–based radiation detection system provides mobile nuclear detection capability for federal, state and local users.

Benefits

- Critical defense tool for the Department of Homeland Security (DHS), Domestic Nuclear Detection Office (DNDO), and local and regional law enforcement
- Quickly deploys to screen for nuclear materials in response to heightened alerts or specific intelligence
- Offers covert threat screening in urban environments and in streams of commerce
- Multiple detector types ensure high gamma and neutron sensitivity over full range of usage conditions
- Incorporates advanced threat identification algorithms that detect and identify material type

Designed to Counter Nuclear Threat

Covert nuclear attack is the foremost threat facing the United States today. The safety of the nation depends upon its ability to design and field systems to detect and interdict smuggled nuclear weapons and materials. For this reason, the Mobile Nuclear Radiation Detection System is a high-priority program within DHS and a key component of DNDO and other federal national nuclear detection initiatives to meet homeland security needs.

This mobile detection system utilizes spectroscopic capabilities to quickly and accurately identify threat material. By enhancing the country's early detection capabilities, the system addresses the threat of

radiological dispersal devices, improvised nuclear devices or a nuclear weapon being used by terrorists inside the United States.

Provides Operational Versatility

Due to its mobile nature, the Mobile Nuclear Radiation Detection System provides added versatility when planning and implementing detection operations. The system is a critical component of the DNDO's family of systems that supports the global nuclear detection architecture.

Effective in a Variety of Settings

The Mobile Nuclear Radiation Detection System can be used to provide radiological/nuclear detection in a variety of operational settings. Example locations include highway on/off ramps, weigh stations, bridges,

tunnels, ports of entry and in various streams of commerce. In short, this highly flexible system will operate in any environment where vehicles can travel.

By preventing the smuggling of nuclear materials within the United States, it will enhance border security and national defense.

Mobile Nuclear Radiation Detection System

The sports utility-based radiation detection system is designed to support a variety of missions.

Radiological Sources of Interest

- Nuclear weapons, improvised nuclear devices (INDs), special nuclear material (SNM) and weapon-indicating radionuclide materials
- Radiological dispersal devices (RDDs)
- Radiological exposure devices (REDs)
- Other illicit radiological materials (e.g., health-risk items and problematic transportation)
- Other non-illicit radiological materials as determined by the user

Planned Operations

Screens for radiological sources of interest during planned operations at checkpoints, commercial vehicle inspection (CVI), special events, tollbooths, weigh stations and weigh station bypass routes.

Routine Operations

Searches for radiological sources of interest while performing routine operations such as highway patrolling, vehicle detection and emergency response, or during emergent operational situations such as the detection and examination of a “suspicious package” by police, the fire department or the bomb squad.

Intelligence-Driven Operations

Screens for radiological sources of interest during heightened alerts, in response to specific intelligence, or during area sweeps for illicit radiological and nuclear materials. Includes screening parking lots, parade routes, open storage facilities, airport roads and structures close to highways.



Raytheon Company
Integrated Defense Systems
50 Apple Hill Drive
Tewksbury, Massachusetts
01876 USA

www.raytheon.com



Raytheon

Customer Success Is Our Mission