

## **ADAPTABLE RADIATION AREA MONITOR**

*Protecting the homeland from nuclear threats*



### **ARAM Applications**

- *Customs security and border crossings*
- *Event security screening*
- *Port security and container screening*
- *Mail processing centers*
- *Baggage monitoring*
- *Harbor Patrol*
- *Military force protection*
- *Mobile surveillance*
- *Environmental monitoring*
- *Emergency response event assessment*
- *Rail yards*



### **Solutions for detecting and stopping the threat of concealed nuclear and radioactive materials**

In a world threatened by radiological weapons of mass destruction, the threat of a nuclear weapon arriving through our nation's intermodal commerce system is a sobering thought. Increasing surveillance and improving detection capability is paramount to national security. Textron Defense Systems' Adaptable Radiation Area Monitor (ARAM) provides a state-of-the-art solution to monitoring the natural flow of commerce without interruption. ARAM is a spectroscopic monitoring system designed to detect and identify concealed nuclear/radioactive material in real-time. ARAM is adaptable and can be configured for fixed portal deployment (RadPort), mobile and portable applications (RadTruck), and a man-portable backpack (RadPack).

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Advanced Solutions Center / IST Operations

**TEXTRON** Defense Systems // **TEXTRON** Systems

# ADAPTABLE RADIATION AREA MONITOR

## RadTruck

ARAM RadTruck operates at some of America's largest ports and most populated States.

- Rapid determination and identification of radiation threats
- Gamma Isotope identification with neutron detection option
- Simple operation using the touch screen display
- GPS based mapping capability
- Remote pager notification
- Full spectral, region of interest (ROI), dose rate logging
- Multi-mission capable

## RadPort

Demonstrated Reliability and Accuracy – ARAM RadPort operates 24/7 at some of America's key Interstate and International commerce crossings, scanning over 8,000 trucks a day.

- Simple user interface for central real-time monitoring
- Customized alarm text displayed for varying personnel
- Storage of raw spectral data from all alarms in ANSI format
- Multi-language capability
- Temperature stabilized calibration
- NEMA 4X enclosures built to withstand extreme environments
- Network ready, modem supported for remote diagnostics

## RadPack

The newest addition to the ARAM suite of layered protection and surveillance.

- Simple operation using the touch screen display
- Weighs less than 15 pounds
- Storage of raw spectral data from all alarms in ANSI format
- 3 hour runtime on single battery
- Wireless network ready
- GPS based mapping capability
- Full spectral, Region of Interest (ROI), dose rate logging

## ARAM Specifications

- Conforms to ANSI 42.35, ANSI 42.38, ANSI 42.42
- Gamma resolution: < 8% at the 662 keV peak of 137Cs
- Neutron sensitivity: 3.00 cps/nv over background
- False alarm probability: < 0.001 per passage
- Return to background: < 0.1 sec after overload exposure
- EMI/RFI Shielding
- -20° C to +55° C ambient
- Windows® based user interface
- Upgradeable isotope library
- Demonstrated multiple isotope discrimination
- 12-48 VDC or 85-260 VAC
- Optional occupancy sensor and camera interface



RadTruck



RadPort



RadPack

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