

RAPISCAN ALARM CHARACTERIZATION

NORM rejection and isotope identification capabilities improve the efficiency and effectiveness of radiation inspection operations.

[Alarm Classification Discriminates NORM](#)

[Alarm Identification Identifies Likely Isotope](#)

[Automated Inspection Enhancements](#)

[Options Available with Rapiscan Vehicle Radiation Monitors](#)



Rapiscan Alarm Characterization Technology improves the efficiency and effectiveness of vehicle radiation inspection operations. The real-time, state-of-the-art capabilities are implemented in the Alarm Classification and Alarm Identification options available with Rapiscan vehicle radiation portal monitor products. The addition of Alarm Classification capability increases inspection throughput and enables the operators to focus on finding radioactive materials of interest without the distraction of nuisance alarms due to Naturally Occurring Radioactive Materials (NORM). The identity of the detected radioactive material is available with the Alarm Identification capability.

[Alarm Classification](#)

Rapiscan's Alarm Classification technology uses enhanced electronics and Rapiscan proprietary software to distinguish and suppress alarms due to NORM. As a result, it minimizes time and effort wasted on evaluating nuisance alarms.

[Alarm Identification](#)

Rapiscan's Alarm Identification technology uses sodium iodide gamma detectors and Rapiscan proprietary software to identify the likely radioactive material that caused an alarm during radiation inspection. It automatically finds radioactive material threats, including Special Nuclear Materials and medical and industrial isotopes that can be used in a dirty bomb. Alarm identification reduces the need for a secondary inspection to identify radioactive materials.

[Radiation Inspection Operation](#)

The Alarm Characterization technology is fully compatible with Rapiscan vehicle radiation monitors, which have been proven during years of reliable operation worldwide. The addition of this technology offers the practical benefit of decreasing the time and cost of vehicle radiation inspection. Operators require no special technical expertise to interpret the inspection results, which are displayed on easy to use Rapiscan remote alarm devices.

[Standard Features](#)

- Distinguish NORM
- Suppress NORM Alarms
- Meets Inspection Standards
- Compatible with Vehicle RPMs
- Option: Identify Likely Isotope

[Markets](#)

- Aviation
- Critical Infrastructure
- Customs and Border Control
- Event Security
- Defense
- Ports

Rapiscan[®]
systems
An OSI Systems Company

RAPISCAN ALARM CHARACTERIZATION

Alarm Characterization

NORM Discrimination	Detects Naturally Occurring Radioactive Material
NORM Alarm	Suppresses NORM alarms
Isotope Detection	Detects isotopes in standards
Standards	Meets ANSI N42.35 and IEC 62244
Operation	Real-time analysis during radiation inspection
Detection Probability	At least 98%
False Alarm Rate	Does not exceed 1/1,000
Alarm Indicators	Pillar and remote alarm units
Availability	Available on Rapiscan vehicle radiation monitors
Upgrade	Upgrade existing Rapiscan TSA vehicle monitors

Alarm Identification

Prerequisite	Requires Alarm Classification Option
Industrial Isotopes	Identifies industrial isotopes in standards
Medical Isotopes	Identifies medical isotopes in standards
Special Nuclear Materials	Identifies Special Nuclear Materials in standards
Standards	Identifies ANSI N42.38 and IEC 62484 isotopes
Operation	Real-time analysis during radiation inspection
Detection Probability	At least 90% for isotopes in standards
Identification Probability	At least 80% for isotopes in standards
False Alarm Rate	Does not exceed 1/1,000
Alarm Indicators	Results indicated on Rapiscan TSA RAVEN™
Availability	Available on Rapiscan vehicle radiation monitors

Options and Accessories

Alarm Identification requires Alarm Classification

Operating Environment

Operating Temperature -34°C to 50°C

With continual development of our products Rapiscan Systems reserves the right to amend specifications without notice. Product pictures are for general reference. Please note that due to US laws and regulations, not all Rapiscan products are available for sale in all countries without restriction. Please contact your Rapiscan Systems sales representative for more information.

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