



EXPLORANIUM[®]

SRPM-210 Radiation Portal Monitor

Powerful, cost-effective detection and categorization of nuclear threats

The EXPLORANIUM SRPM-210 radiation portal monitor (RPM) uses advanced passive scanning technology to detect, locate, and categorize illicit nuclear material in cargo containers, trucks, and other vehicles in the normal flow of checkpoint traffic.

Combining efficient yet economical large-volume polyvinyl toluene (PVT) detectors and a state-of-the-art digital spectrometer with a novel threat-analysis algorithm, the SRPM-210 can separate dangerous special nuclear material (SNM) from harmless industrial and medical isotopes, helping to resolve alarms while significantly reducing secondary inspections. With its low false alarm rate and efficient, reliable operation, the SRPM-210 is ideal for border crossings, ports, and other transit facilities.

BENEFITS

- ▶ Detects and categorizes nuclear threats
- ▶ High throughput — designed for primary inspection scenarios
- ▶ Greatly reduces costly, time-consuming secondary inspections
- ▶ Utilizes field-proven, cost-effective PVT detectors
- ▶ Compatible with EXPLORANIUM AT-980 infrastructure — field upgrades available

DETECTS, LOCATES, AND CATEGORIZES NUCLEAR MATERIALS

The SRPM-210 is designed to quickly and accurately detect and categorize dangerous nuclear materials — including nuclear weapons, improvised nuclear devices, SNM, and radiological dispersal devices (“dirty bombs”) — in vehicles as they pass through border crossings, ports, and other transit facilities at typical checkpoint speeds. The system efficiently separates harmless industrial and medical radioactive materials from dangerous nuclear threats, even when they are surrounded by cargo, and graphically displays the location of radioactive sources in the scanned vehicle in an intuitive, easy-to-understand interface.

POWERFUL PERFORMANCE

The SRPM-210’s safe, passive scanning technology features powerful yet economical PVT detectors, a digital gamma-ray spectrometer, and a novel threat-analysis algorithm, all integrated in an all-weather, durable, easy-to-service architecture. The system continuously calibrates each of its detectors without requiring a radioactive check source and automatically compensates for detector changes due to temperature and other factors. Enhanced energy “windowing” — technology the SRPM-210 uses to divide and categorize detected radioactive energy — greatly increases the spectral resolution of the detectors, assisting operators in distinguishing harmless detected radioactive sources from dangerous ones. The SRPM-210 system meets applicable portions of the challenging American National Standards Institute (ANSI) N42.35-2006 performance standard.

COMPATIBLE WITH EXISTING INFRASTRUCTURE

The SRPM-210 is designed to fit in the same footprint as the widely deployed EXPLORANIUM AT-980 RPMs and has similar power, communications, and signaling requirements. Additionally, the SRPM-210’s detector panels are designed to be fully compatible with existing AT-980 RPM stands, making field upgrades easy and cost-effective.

LEIDOS — A WORLD LEADER

Leidos is a world leader in radiation detection technology, with thousands of installations for government and commercial clients around the world. Every system is available with our dedicated, world-class maintenance and technical support.

CAPABILITIES

- ▶ Provides not just detection, but also categorization of radiological threats
- ▶ Separates industrial and medical isotopes from SNM
- ▶ Detects SNM even when shielded or masked
- ▶ Meets applicable portions of ANSI performance standards
- ▶ Graphically displays the location of radioactive sources in scanned vehicles
- ▶ Scans vehicles in the typical flow of checkpoint traffic
- ▶ Compatible with existing EXPLORANIUM RPM infrastructure
- ▶ Low false alarm rate and high throughput allow use as a primary screening device

OPTIONS

- ▶ Additional cameras (up to three) for capturing additional vehicle images
- ▶ Additional detector panels for oversized vehicles