GUARDIAN™ PM-SPLIT-GN

Rapiscan®

DATASHEET

PEDESTRIAN RADIATION PORTAL MONITOR



KEY FEATURES AND BENEFITS

No nuisance alarms for continuous flow of pedestrians

Precise source location, accurately identifying an individual source even in high pedestrian traffic areas

Extra-wide portal allows multiple people with baggage to walk through the system at the same time

The Guardian PM-Split-GN is a high-throughput gamma/neutron pedestrian monitor to screen people at airports, seaports, border crossings, train stations, high-threat facilities, and critical infrastructure.

The extra-wide portal allows multiple people with baggage to walk through the system at the same time, making it ideal for high foot-traffic locations. Its passive split-monitoring technology accurately identifies the source individual—with a nuisance alarm rate of practically zero—while continuing to accommodate the steady flow of surrounding pedestrian traffic.

The Guardian PM-Split-GN uses highly sensitive gamma and neutron detectors that detect and discriminate between illicit sources, such as special nuclear materials (SNMs), and legal sources, such as Invivo medical treatments or diagnostics.

SPECIFICATIONS

GUARDIAN™ PM-SPLIT-GN

PHYSICAL SPECIFICATIONS

- **Operating Configuration:** Walk-through pedestrian monitor
- **Pillars:** Left and right
- **Standard Pillar Spacing:** 61 in (155 cm)
- **Overhead Crossover:** Box structure
- **Number of Gamma Detectors:** 4 detectors; 2 per panel
- **Gamma Detector Material:** Polyvinyltoluene (PVT) plastic scintillator
- **Gamma Detector Size:** 2 in Dia. x 72 in L (5 cm Dia. x 182 cm L)
- **Gamma Detector Volume:** 59 liters (total)
- **Number of Neutron Detectors:** 12 detectors; 6 per panel
- **Neutron Detector Material:** LiZnS-PMMA
- **Neutron Detector Size:** 14 in L x 6 in W x 2 in D (35 cm L x 15 cm W x 5 cm D)
- **Neutron Detector Volume:** 33 liters (total)
- **Panel External Dimensions:** 93 in L x 60 in W x 16 in D (237 cm L x 152 cm W x 41 cm D)
- **Panel Weight:** 600 lbs (270 kg)

PERFORMANCE SPECIFICATIONS

- **Gamma Radiation Detection:** Meets ANSI N42.35 and IEC 62244
- **Special Nuclear Materials (SNM) Detection:** Meets ANSI N42.35 and IEC 62244
- **Gamma False Alarm Rate:** Less than 1 in 1,000,000 passages (typical)
- **Neutron False Alarm Rate:** Less than 1 in 10,000 passages (typical)

OPERATION

- **Inspection Speed:** 7 ft/s (2.2 m/s) nominal
- **Occupancy Sensors:** IR and microwave sensors
- **Gamma Radiation Alarm:** Red light
- **Neutron Radiation Alarm:** Blue light
- **Tamper/Fault Alarm:** Amber light
- **Main Power:** 90–240 VAC, 50–60 Hz
- **Ports Radiation Alarm:** Ethernet, RS485, and serial

ENVIRONMENT/SAFETY

- **Temperature:** -4 °F to 122 °F (-20 °C to 50 °C)
- **Humidity:** 5 to 95% non-condensing
- **Environmental Protection:** IP64

STANDARD FEATURES

- High-sensitivity results
- Gamma and neutron detection
- No nuisance alarms, even among medical patients
- Fully digital system
- Operates at walking speeds up to 7 ft/s (2.2 m/s)
- Multi-faceted alarm system
- Direct connection to the network
- Real-time state of health reporting
- Modular design for easy servicing

OPTIONAL FEATURES

- Spectroscopy
- Battery backup
- Overview camera
- Video of alarms
- Threat Matrix™ software to customize sensitivity setting for the location
- Remote monitoring plans
- Remote service plans

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The performance characteristics and photos in this document are indicative and for information only and do not represent any specific system configuration. Specifications and features of individual systems will vary based upon customer requirements, operation, supplied options, and other factors. Customers must refer to the relevant quote, proposal, or contract for the definition of a system configuration, including specifications and optional items. Due to continual development of our products, we reserve the right to amend any of the information listed here without notice. Please note that due to U.S. laws and regulations, not all products are available for sale in all countries without restriction.

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