

Portable Radiation Monitor





FULLY TRANSPORTABLE WITH THE EXCLUSIVE LAURUS SYSTEMS *PRM* BRACKET MOUNTING SYSTEM! SNM DETECTOR FOR CONTAINER AND CONVEYOR BELT PACKAGE INSPECTION

The Rad-D is a fixed-position radiation detector that is used to monitor doorways, driveways, or loading docks. It can inspect pack-ages or luggage on conveyor belts; and it can be integrated with an X-ray machine or a metal detector to increase the kinds of dangers detected. The rad-D can also be easily connected to an existing security system - to add radiation to the other types of alarms. The rad-D is small. It can be attached to walls, light poles, convey-or belts, or X-ray machines. And because it is small, it doesn't affect the how of vehicles or pedestrians under inspection. Other, similar devices need large, fixed areas and concrete footings to mount their systems and require traffic (vehicles or people) to be forced through a fixed inspection corridor. A rad-D system can include up to four detectors - operating simultaneously, each up to 150' away from the display electronics. The rad-D is designed to integrate into existing security networks, using either a serial communications link or a Bluetooth wireless link that can communicate with a PC up to 300 feet away. With four detectors, an operator can monitor four different doorways (or driveways, or conveyor belts, etc.) anywhere in your facility. When the rad-D alarms, it can trigger active responses such as blockades or halting conveyor belts. There are two different types of rad-D detectors available: Gamma, or Neutron. The standard radiation detector searches for gamma and X-ray radiation and can be configured as either omni-directional or uni-directional to ensure that the unit is triggered only by what is directly in front of it, not by what is in the next traffic uni-directional to ensure that the unit is triggered only by what is directly in front of it, not by what is in the next traffic lane or

Flexibility, functionality, and affordability make the Rad-D a practical solution for use in:

- Pedestrian Monitoring
- Shipping and receiving points/conveyer operations
- Security check-points
- Border controls and check-points
- · Materials Screening



on a parallel conveyor belt. The other type, a neutron detector, is an important tool to detect the transport of illicit nuclear weapons. Many users configure a standard radiation detector and a neutron detector to cover the full spectrum of radiation. Like the mini rad-D, the rad-D is designed to be extremely easy to use and understand. It provides the operator with an easy-to-interpret single digit read out of a "1" to a "9" to show the strength of the detected radiation. The rad-D also shows the actual count of photons or neutrons. It automatically calibrates itself to the natural background radiation environment to maximize its detection sensitivity.

Rad-D

FEATURES

- 24/7 Operation
- No maintenance required
- Easy to use no special training
- High sensitivity
- Automatic background compensation to minimize false alarms
- Fast detection < 1 second to complete package inspection on a conveyor belt system
- Transportable with LAURUS Systems universal mounting bracket
- Available with lead shielding for use with x-Ray machine conveyor belts

SPECIFICATIONS

Function	Gamma Gamma/Neutron detection
Detector	Gamma: 2" X 3" (51 x 76 mm) NaI; doped with Thallium
	Neutron: 253 Cylindrical He3
Energy Range	40 keV to 3000 keV (gamma)
Sensitivity	Will detect 1.0 uCi of Cs137 at 1.5 meters from the face of the detector
Power	Regular 120VAC
Response Time	< 1 second
Display	"1" through "9" LED readout
	Counts Per Second (gamma)
Notification	Audio/LED – 3 μR/h (.03 uS/h) above background
Audible Alarm	92+ dBA at 24 inches (61 cm)
Calibration	Automatic
Calibration Biasing	16-position switch; allows manual setting for operation in high-radiation environments
Versions	Shielded version available for use with X-Ray scanning machines
Size	Detector: 5" Dia, 17.5" length (13 x 45 cm)
	Control Unit: 6.75" x 4.2" x 3" (17 x 11 x 8 cm)
Weight	Detector: 27.5 lb (12,5 kg)
	Control Unit: 1.5 lb (.7 kg)
Environment	-10°F - 122 °F (-23° - 50° C)



