



Roller Case
RAD-D-W



PRS-7 ELECTRONICS

Inspector's Gamma Radiation Scanner

Model: Rad-D-W

Features

- Detects "At A Distance", "Sees-Thru" Obstacles
- Excellent Search Tool
- Large 7" Dia. Nai(Tl) Crystal For Gammas
- **Optional:** Neutron Detector **RAD-D-W-N**
- **Optional:** Shield And Collimator **RAD-D-W-GC**
- Fast, Accurate Response
- Mounting Options: Hand Carried Suitcase, Backpack, Roller Case, All-Terrain Cart
- **Optional:** External Alarm Beacon
- Power Options: Ac, Battery, Vehicle Operation

PRS-7 Electronics:

- Single Channel Analyzer
- Digital; Portable; Splash Proof
- Versatile AC and Rechargeable Battery
- Three Presettable Window Positions
- Switch Selectable; Six Decades
- Computer Interface

Description

The **RAD-D-W** has 12 times greater area and 12 times greater sensitivity than the popular 2" x 2" NaI(Tl) portable Gamma Spec units. This allows detection of items that are not detectable or not resolvable by smaller devices.

Scenario

Shipping Container with an unlikely MANIFEST or suspicious origin:

Does it contain a shielded cache of Cesium, Uranium, Sr90 for a Dirty Bomb or Plutonium, or a suitcase Nuke?

- A Coast Guard cutter is cruising the harbor, stops to look at a suspicious boat, but does not have time to board and search. The **RAD-D-W** saves time.
- In most cases, it can eliminate the need to conduct lengthy inspections and searches to find the presence of radioactivity.
- An inspector doing his/her job approaches a vehicle, a shipping container, a package, a shed, which might contain radioactive material. Because of **RAD-D-W's** high sensitivity an external scan is usually sufficient.



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Process

Use of a radiation detector is required to do a detailed search of contents of building, container, vehicle, etc.

With the **RAD-D-W** access is not required, only proximity.

If the inspector does not have the **RAD-D-W** he/she must:

1. Must file and get authorization to enter and search the area, container, building, or vehicle.
2. Find the owner to gain access or break the locks.
3. Get one or more co-workers to help as a witness, or for security, and for technical expertise.

Optional: The highly sensitive Neutron Detector gives warning and confirmation that fissionable materials are present.



Optional Mounting with Alarm Beacon:



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PRS-7 Electronics

- **Digital Read Out:** 6 digit LCD Rate, 8 digit integrate.
- **Time Base:** Crystal controlled 1-10,000 seconds, user settable.
- **Display Modes:** Rate, Integrate.
- **Range:**
- **Alarm:** 2000 Hz audio tone with audio "mute" switch RED LIGHT, high current relay.
- **Single Channel:** **3 Switch Selectable Windows:**
2 preset (resettable) window positions plus one "variable".
- **Analyzer/Discriminator:** 10-turn, 1000 division pot for each threshold.
10-turn, 1000 division pot for window width.
- **Serial Output:** Two way, RS-232 standard, USB optional.
- **Computer interface:** RS-232
- Optional:** USB

Power

- **Power:** 105-125 volts, 50-60 Hz (220 V optional)
- **Batteries:** 12v, 4.8 Amp Hour built-in L-ion battery pack with AC Charger Adapter
- **Battery Life:** 3-5 days at 8 Hour/day



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Optional Ruggedized Version

Parameter	Scintillation Probe Specifications
Temperature Range:	-40 to +65 degrees C
Vibrations	5G RMS on 3 axis
Shocks	100 G
Environmental	All Rugged detectors meet the IP54 spec. On request provisions to meet IP 68 can be included.
Salt Spray	Immune



Mock-up of a hypothetical "suitcase" nuclear bomb, made by Congressional staffer Peter Pry. It is basically a 105 mm artillery shell device packaged in a large briefcase.



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