### Model ~ Rad-D-W

### **FEATURES**:

- DETECTS "AT A DISTANCE", "SEES-THRU" OBSTACLES
- EXCELLENT SEARCH TOOL
- LARGE 7" dia. Nal(TI) 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 & RECHARGEABLE BATTERY
- THREE PRESETTABLE WINDOW POSITIONS
- SWITCH SELECTABLE; SIX DECADES
- COMPUTER INTERFACE



Roller Case RAD-D-W



#### **DESCRIPTION:**

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

PRS-7 ELECTRONICS

## **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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RAD-D-W

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

### **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 MOUNTING WITH ALARM BEACON:**







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	Detector Unshielded:	Detector with Optional Shields Collimator:	PRS-7 Analyzer Readout:	Optional Cart:
Size:	7.5" dia. x 12" long (Gamma) 2.5" dia. x 12" long (Neutron)	8" dia x 15" long	4" x 5" x 10"	36" H x 15" W x 17"D
Weight:	15 lbs. Gamma + 5 lbs. Neutron	20 lbs. (Optional)	6 lbs.	8 lbs.

**Optional:** Shielding with collimator provides improved directional measurements at a distance. Even without collimator, *RAD-D-W* gives a higher count rate when it is pointed at the target.

## **PRS-7 ELECTRONICS**

•	Digital Read Out:	6 digit LCD Rate, 8 digit integrate.	
٠	Time Base:	Crystal controlled 1-10,000 seconds, user settable.	
٠	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	

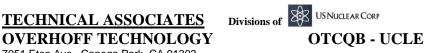
#### **POWER:**

٠	Power:	105-125 volts, 50-60 Hz (220 V optional)	
٠	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



