



# rad-ID™

You Found It. Is it Dangerous?

The **Rad-ID** is an advanced radiation laboratory-in-a-box that is easy to use with almost no training - identifying a radiation source requires pressing a single button. The Rad-ID uses a custom combination of up to four different detectors to identify 107 different radioactive materials including:

- Medical isotopes
- Industrial isotopes
- Special nuclear materials

Advanced signal processing electronics combine the data to identify the source. Competing products use one or two detectors, and identify far fewer isotopes, often requiring public safety personnel to guess the category of the unknown isotope. In addition to material identification, the Rad-ID is an advanced radiation detector, allowing public safety personnel to sweep large numbers of people, packages, or vehicles quickly to locate radiation.

## FEATURES

- One button operation
- 4 detector types
- Identifies 107 radionuclides
- Bluetooth enabled for remote operation

The Rad-ID also houses a built-in Bluetooth wireless data link, allowing measurements to be sent to a PC from up to 300 feet away. The Rad-ID can be used in all weather conditions and will endure rigorous decontamination procedures. Also, radiation measurements are stored in memory that can be sent to a computer at a later time. Even with no power, the Rad-ID won't lose the measurements that were made. All the Rad-ID needs to operate are 3 off-the-shelf D-cell batteries. No charger and no special power supply means that the Rad-ID is ready when you are!



# D-TECT PRODUCTS

Rugged, Sensitive & Easy to Use

## RAD-ID SPECIFICATIONS

Mission	Handheld radiation identifier and detector
Detector	1. Large 4 cm <sup>3</sup> array of Cadmium Zinc Telleride (CZT) detector with high-resolution crystals 2. Large 24.4 cm <sup>3</sup> Sodium Iodide doped with Thallium (NaI(Tl)) detector with high-sensitivity photo-multiplier tube 3. He3 Neutron detector 4. Geiger-Mueller (GM) detector
Display	High-resolution 65,000 color 3.6" (320 x 240 pixels) backlit LCD
Data links	Bluetooth (Class 1, 100 meter range) or IRDA
Power	3 D-cell Batteries
Battery Life	12 hours
Response Time	Less than 1 second
Calibration	Automatic (background)
Alarms	Audio alert for dose rate level, gamma and neutron detection level
Units	mrem/h, $\mu$ rem/h, $\mu$ Sv/h
Relative Humidity	0-100% condensing
Warranty	2 years parts and labor
Dimensions (L x W x H)	7.5" x 5.3" x 11.2" (19 cm x 13.5 cm x 28.4 cm)
Weight	7.45 lbs (3.38 kg) with batteries
Environment	IP54, Driving Rain per MIL-STD-810. 5° to 130° F (-15° to 54° C). 3 ft drop onto concrete in case. Operates in high RF environments.

## RADIONUCLIDE LIBRARY

Na-22	Nb-96	Xe-133	Ir-192 (b)
K-40 (a)	Tc-96	Cs-134	Tl-201 (a)
K-40 (b)	Mo-99/Tc-99m (a)	I-134	Tl-201 (b)
K-40 (c)	Mo-99/Tc-99m (b)	I-135	Pb-203
Sc-46	Pd-103	Xe-135	Bi-207
Ca-47	Ru-103	Cs-137	U-233 (a)
Cr-51	Rh-106	Xe-131m/Ce-139 (a)	U-233 (b)
Mn-52	Cd-109	Xe-131m/Ce-139 (b)	U-238 (a)
Mn-54	Pd-109	Ba-140	U-238 (b)
Co-55	Ag-110m	Ce-141	U-238 (c)
Mn-56	In-111	Ce-144/Pr-144	Th-230
Co-57	Sn-117m	Sm-145	Ra-226 (a)
Co-58	Sb-124	Nd-147	Ra-226 (b)
Fe-59	I-123	Tb-149	Pu-239 (a)
Co-60	I-124	Eu-152	Pu-239 (b)
Zn-62	Sb-125	Gd-153	Pu-239 (c)
Ga-64	I-125	Sm-153	Pu-240
Zn-65	I-126	Eu-155	U-235 (a)
Ga-67	Sb-127	Dy-165	U-235 (b)
Cu-67	Xe-127	Yb-169	U-235 (c)
As-72	I-131 (a)	Tm-170	Th-232 (a)
As-74	I-131 (b)	Lu-177	Th-232 (b)
Se-75	Xe-131m/Ce-139	Hf-181	Am-241
Br-75	Te-132/I-132	Ta-182	Np-237 (a)
Br-77	Ba-133 (a)	Re-186	Np-237 (b)
Y-88	Ba-133 (b)	Re-188	Cf-251
Zr-95	I-133	Ir-192 (a)	

## RAD-ID VERSIONS

Part Number	Product Code	Detectors
V012801	RAD-ID-G	NaI(Tl), GM, CZT x 4
V012802	RAD-ID-G+	NaI(Tl), GM, CZT x 8
V012803	RAD-ID-GN	NaI(Tl), GM, He3, CZT x 4
V012804	RAD-ID-GN+	NaI(Tl), GM, He3, CZT x 8



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