







# Radiation Detection Product Selector

	Product Area 1	Product Area 2	Product Area 3
Detector Type	Electronic Dosimeter	Personal Radiation Detector	Isotope Identifier
Price Range	\$450 - \$700	\$1000 - \$3000	\$8000 - \$15000
	<p>About the size of a pager, these electronic devices track the total radiation dose received by the wearer. They use small Geiger-Müller (GM) tubes to measure dose. Most have the ability to alarm at certain dose rates or total dose. Although these devices are not sensitive enough to necessarily find fugitive radioactive material, they can quickly detect significant events and protect the wearer from overexposure.</p> <p>Well-suited for emergency responders who may need to quickly enter a scene, these devices can help ensure responder safety by alerting them to potentially hazardous radiation levels without any user activation or operation. The units can also alert the wearer when unusual radiation levels are present, though they may not be sensitive enough to find low levels, i.e., &lt; 0.5 mrem/hr.</p>	<p>Often called "Radiation Pagers," and similar in appearance to the electronic dosimeters, these units have the very different function of finding low levels of radiation using very sensitive crystal scintillators. Although good for finding contraband radioactive material, these units do not have the range necessary for personnel protection (i.e., high dose rates).</p> <p>Well-suited for law enforcement or inspectors, these devices can alert the wearer to any unusual radiation in their proximity. These devices are best used when there is an opportunity for a measured response, as most alerts will occur from legitimate commercial, medical, or natural radioactive material. Training and protocols need to be provided to properly resolve any alarms.</p>	<p>These expensive and sophisticated units use the different gamma ray "signatures" given off by the radioactive material to identify the originating isotope(s). Proper identification of an isotope is important for determining appropriate response actions. Although the analysis being performed is complicated, these units offer a simple interface to help non-technical users make a measurement. Many of the units have modes of operations similar to the electronic dosimeters.</p> <p>Best suited for experienced users or well trained and practiced responders, these units will help identify the radioactive material involved at a scene or in contraband. Good for reachback radiological emergency response teams, HAZMAT or inspectors.</p>
Product Descriptions	 <p><b><u>palmRAD 907</u></b> Alarming survey meter with downloadable qualitative analysis. Alpha, beta, gamma, and x-ray detection. <i>User Groups:</i> Compliance, Inspection, Shipping, Radiation Safety</p>  <p><b><u>palmRAD 1621M</u></b> Rugged pocket sized instrument that provides average dose, total dose and critical stay-time information that is downloadable. Separate alarm thresholds for each function allow user to track personal health and safety records. <i>User Groups:</i> Emergency Responders, Medical, Radiation Safety, Nuclear workers, Dosimetry</p>	 <p><b><u>nukeALERT 951</u></b> Simple to use radiation pager, designed for maximum sensitivity in a watertight, drop-tested package. Straightforward 1-9 strength indicator on interface allows for use by non technical personnel. <i>User Groups:</i> Highway Patrol, Customs and Border Patrol, FBI, Bomb Squad, HAZMAT, Coast Guard</p>  <p><b><u>nukeALERT II 1703GN</u></b> Radiation pager designed for maximum sensitivity in a watertight, drop-tested package. Offers two modes of operation: (1) simple to use 1-9 strength indicator on interface allows for use by non technical personnel, and (2) critical exposure rate data that is downloadable to a computer. Detects both gamma and or neutron radiation sources at the same time. <i>User Groups:</i> Same as above</p>	 <p><b><u>SAM Model 935</u></b> The SAM isotope identifier offers larger detectors and quicker response time than pagers, is the only isotope identifier to identify multiple sources in real time, and can ID moving target sources. Offers Easy Mode and Technical Mode options. <i>User Groups:</i> DOE, U.S. EPA, U.S. Customs, U.S. Department of Transportation, State Health Departments, Hazmat Teams, Air Force, Army, Navy.</p>  <p><b><u>SAM Resolver</u></b> The SAM Resolver is a high performance handheld radiation identification system which uses Lanthanum Bromide (LaBr) scintillator detectors. This instrument was developed to provide simple operation for the first responder who needs to react quickly, as well as detailed analyses for the sophisticated technical user. The Resolver's 2.8% resolution across a large energy range can identify overlapping peaks. <i>User Groups:</i> Same as above</p>
Alternates	<b><u>1209 Wristwatch Dosimeter</u></b>	<b><u>nukeALERT II 1703M, 1703GNB SPRD, 1703MO new!</u></b>	<b><u>1703GNB SPRD, FIND-ARAM</u></b>