

## RADIO-ISOTOPE IDENTIFICATION DEVICE

<b>DESCRIPTION</b>	The Radio-Isotope Identification Device is a portable radiation detector, also known as a radionuclide identifier, with gamma spectroscopic capabilities and neutron indication.
<b>RESOURCE CATEGORY</b>	Prevention
<b>RESOURCE KIND</b>	Equipment
<b>OVERALL FUNCTION</b>	This equipment identifies radioisotopes of radiological and nuclear material; operators may also use it for initial detection of radiological and nuclear material
<b>COMPOSITION AND ORDERING SPECIFICATIONS</b>	<ol style="list-style-type: none"> <li>1. The Agency Having Jurisdiction (AHJ) and requestor should address the following prior to deployment:                             <ol style="list-style-type: none"> <li>a. Logistics support, such as transportation and personnel</li> <li>b. Type of incident or event</li> <li>c. Spare batteries and battery recharging capabilities</li> <li>d. Additional device features, such as dose rate capable, low profile mode, ruggedized, and network capable</li> <li>e. Global Positioning System</li> </ol> </li> <li>2. The requestor can request this resource with or without the personnel component of a National Incident Management System (NIMS) Type 1 Preventive Radiological Nuclear Detection (PRND) Screener</li> <li>3. If the requestor orders this resource without personnel, the AHJ should have a NIMS Type 1 PRND Screener or provide in-person training specific to the mission, without lag time between training and mission deployment</li> </ol>

Each type of resource builds on the qualifications of the type below it. For example, Type 1 qualifications include the qualifications in Type 2, plus an increase in capability. Type 1 is the highest qualification level.

COMPONENT	TYPE 1	TYPE 2	NOTES
<b>ISOTOPE IDENTIFICATION EQUIPMENT PER RESOURCE</b>	High Resolution Less than 1.0% Energy Resolution at 662 KeV FWHM	Medium/Low Resolution 1.0% - 9.0% Energy Resolution at 662 kilo-electron volts (KeV) full width half maximum (FWHM)	Not Specified



## NOTES

Nationally typed resources represent the minimum criteria for the associated component and capability.

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## REFERENCES

1. FEMA, National Incident Management System (NIMS), October 2017
2. American National Standards Institute/Institute of Electrical and Electronics Engineers, Inc. (ANSI/IEEE) N42.34-2006 American National Standard Performance Criteria for Hand-Held Instruments for the Detection and Identification of Radionuclides, February 2007