

RADIO-ISOTOPE IDENTIFICATION DEVICE

DESCRIPTION	The Radio-Isotope Identification Device is a portable radiation detector, also known as a radionuclide identifier, with gamma spectroscopic capabilities and neutron indication.
RESOURCE CATEGORY	Prevention
RESOURCE KIND	Equipment
OVERALL FUNCTION	This equipment identifies radioisotopes of radiological and nuclear material; operators may also use it for initial detection of radiological and nuclear material
COMPOSITION AND ORDERING SPECIFICATIONS	<ol style="list-style-type: none"> The Agency Having Jurisdiction (AHJ) and requestor should address the following prior to deployment: <ol style="list-style-type: none"> Logistics support, such as transportation and personnel Type of incident or event Spare batteries and battery recharging capabilities Additional device features, such as dose rate capable, low profile mode, ruggedized, and network capable Global Positioning System 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 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

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
ISOTOPE IDENTIFICATION EQUIPMENT PER RESOURCE	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.

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