

HUMAN-PORTABLE RADIATION DETECTOR

DESCRIPTION	This instrument comprises several radiation detection components placed inside a backpack or similar enclosure, along with an optional external control device.		
RESOURCE CATEGORY	Prevention	RESOURCE KIND	Equipment
OVERALL FUNCTION	This equipment detects the presence of radiological and nuclear material in a wide area around the operator; due to the larger detector element and power source, the detection range of this device may be greater than a Personal Radiation Detector (PRD) or Radio-Isotope Identification Device (RIID)	COMPOSITION AND ORDERING SPECIFICATIONS	<ol style="list-style-type: none"> The Agency Having Jurisdiction (AHJ) and requestor should discuss the following prior to deployment: <ol style="list-style-type: none"> Logistics support, such as transportation and personnel Type of incident and event Spare batteries and battery recharging capabilities Additional 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 2 Preventive Radiological Nuclear Detection (PRND) Screener If the requestor orders this resource without personnel, the AHJ should have a NIMS Type 2 PRND Screener or provide face-to-face training specific to the mission, without lag time between training and mission deployment

RESOURCE TYPES			TYPE 1	TYPE 2	TYPE 3	TYPE 4
COMPONENT	METRIC/ MEASURE	CAPABILITY				
Equipment	Per Resource	Radiation Detection	Same as Type 2	Same as Type 3, PLUS: Neutron	Same as Type 4	Gamma
			NOTES: Not Specified			
Equipment	Per Resource	Isotope Identification	Same as Type 3	Same as Type 4	Isotopes	No capability
			NOTES: Not Specified			

Superseded

COMMENTS

1. Gamma Detector types include sodium iodide (NaI), cesium iodide (CsI), cadmium zinc telluride (CZT) solid state detectors, and other scintillator or solid state detectors

REFERENCES

1. American National Standards Institute/Institute of Electrical and Electronics Engineers, Inc. (ANSI/IEEE) N42.43-2006, American National Standard Performance Criteria for Mobile and Transportable Radiation Monitors Used for Homeland Security, May 2007

NOTES

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

Superseded