

GeGI[®]

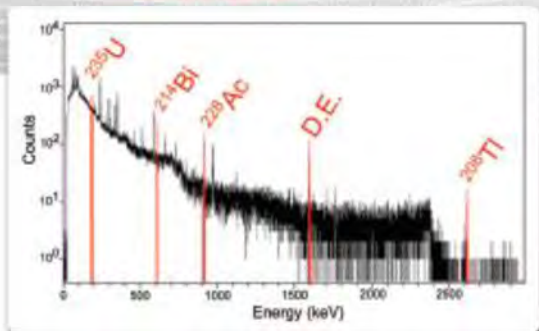
RAD NUC STANDOFF DETECTOR

Fast & Accurate Location, Identification & Quantification



Wide-angle optical camera combined with gamma-ray imaging spectrometer capture the nuclear environment quickly and accurately.

High Resolution Spectroscopy and *Automatic* Identification



Applications

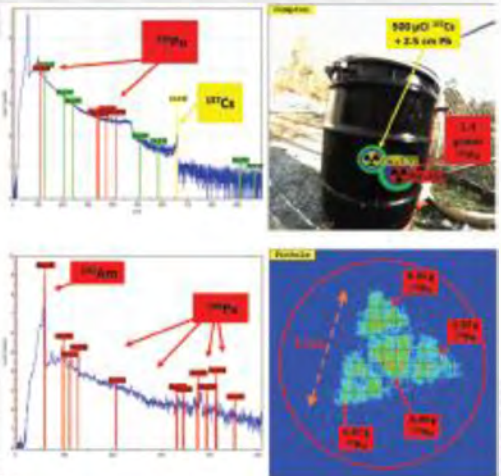
- Military and Civilian CBRNE Operations
- Nuclear Safeguards
- Nuclear Security
- Special Nuclear Materials Analysis
- Decommissioning & Decontamination

Specifications

Dimensions:	10.5 in x 8 in x 5.5 in (26 cm x 20 cm x 14 cm)
Weight:	15 lbs (6.8 kg)
Battery life:	3 hours internal, 5 hours external, all hot swappable
Power supply:	100-240 VAC, 50-60 Hz
User maintenance:	None
Energy resolution:	FWHM < 2.1 keV (0.3 %) at 662 keV
Gamma-ray Compton imaging field of view:	4π (360°)
Optical (camera) field of view:	2π (185°)
Pinhole imaging field of view:	60° cone
Sensitivity: 10 μ Ci ¹³⁷ Cs at 1 meter (3.3 μ R/hr, 33 nSv/hr)	
Detection and ID time (662 keV) (8 σ):	3.7 sec \pm 1.0 sec
Location (Compton image) time:	30 sec \pm 13 sec
Exposure/rate capacity:	200 kcps (10% Dead time) in 15 mR/hr ⁶⁰ Co
Energy range:	30 keV – 3 MeV
Imaging energy range:	
Pinhole (2.54-cm thick Pb 60°):	30 keV – 662 keV
Compton:	140 keV – 3 MeV
Isotope library (400 Isotopes):	Auto detect and/or user selected/specified
Isotope Identification:	37 frequently encountered isotopes
Detector (Ge crystal) dimensions:	90-mm diameter, 11-mm thick
Active detector volume:	60 cm ³
Active detector area:	55 cm ²
Cool-down time:	2.5 hours
Start-up time (cold):	2 minutes
Included:	Rugged daylight-readable glove-touch tablet, pelican case, power supply, battery charger

Features

Standoff Location Detection Identification
 Distance Range (10 cm - 50+ meters)
 Automatically specifies SNM, NORM, IND, MED
 Germanium gamma-ray spectroscopy (16k ch)
 Full 360° Standoff Visualization (Compton)
²³⁵U (186 keV) ²³⁸Pu (375 keV, 414 keV)
 User-friendly single-button glove-touch operation
 Hot swappable battery operation
 Full session save and reload capability
 Full data-stream availability
 Wireless capable/wireless option can be disabled
 Twist-lock mil-spec power connector
 Long-lived internal cooler (5 years +)
 Reachback file: ANSI N42.42 format
 Remote operation



Lead (Pb) Pinhole Imaging Aperture
60-degree Field of View



Optional External
Li-ion Battery Pack



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