

GeGI[®]

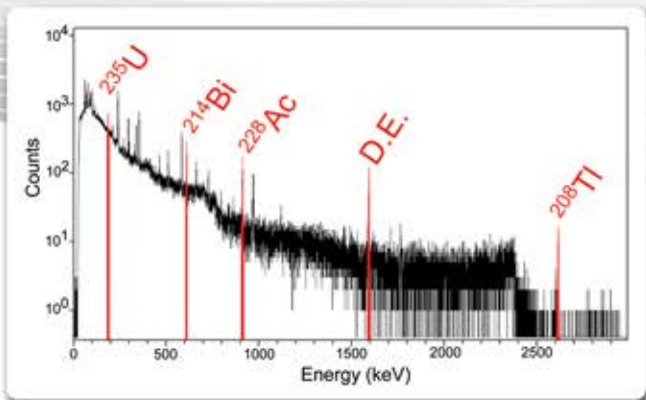
RAD NUC STANDOFF DETECTOR

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

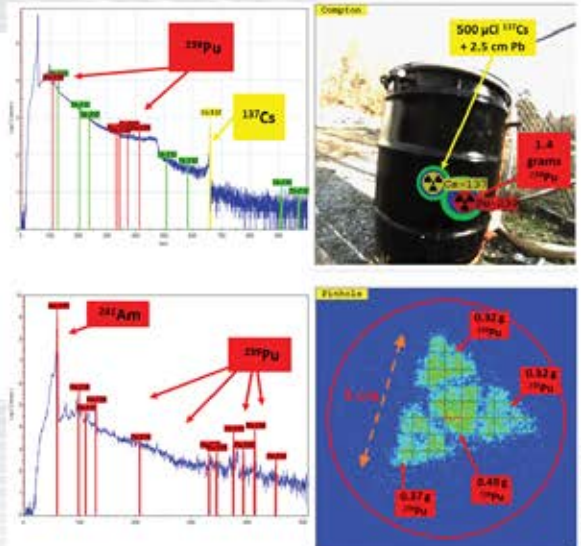
- Military and Civilian CBRNE Operations
- Nuclear Safeguards
- Nuclear Security
- Special Nuclear Materials Analysis
- Decommissioning & Decontamination

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-μCi ¹³⁷ Cs at 1 meter (3.3 μR/hr, 33 nSv/hr)	
Detection and ID time (662 keV) (8σ):	3.7 sec ± 1.0 sec
Location (Compton image) time:	30 sec ± 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) ²³⁹Pu (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

