

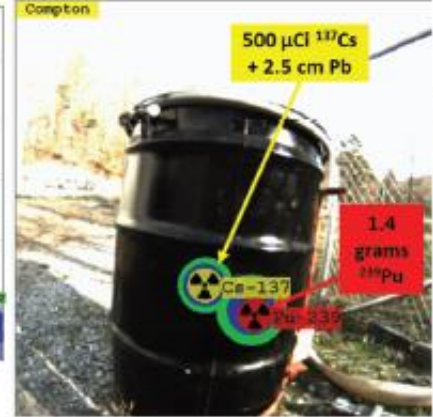
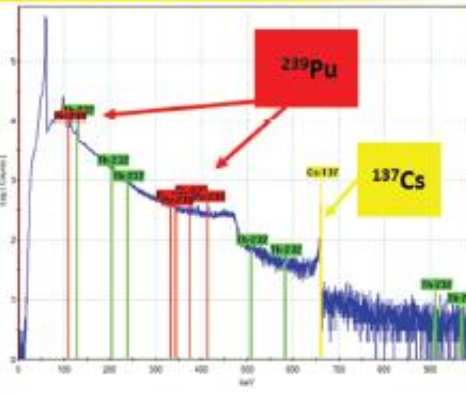
GeGI[®]

RAD NUC STANDOFF DETECTOR

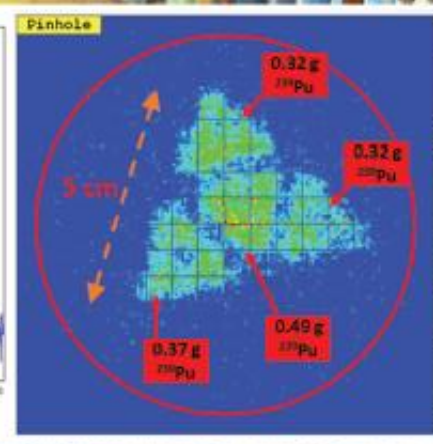
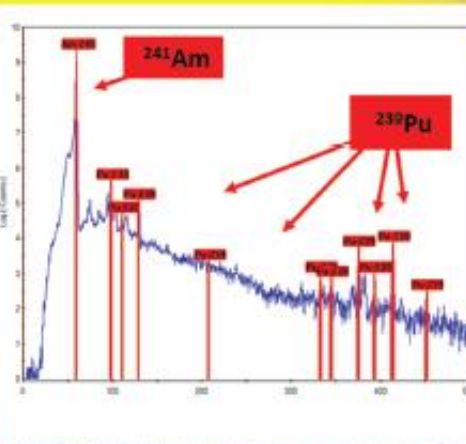
Locate • Identify • Quantify



Find the Source



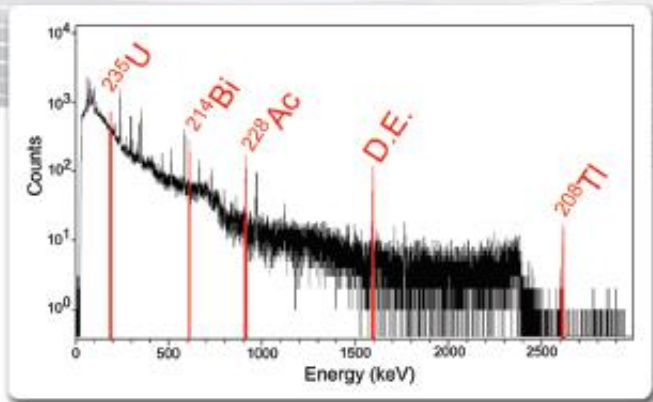
Understand the Source



Wide angle camera captures the field of view

CBRNE Training Exercise Results

High Resolution Spectroscopy and *Automatic* Identification



Applications

- Military and Civilian CBRNE Operations
- Nuclear Safeguards
- Nuclear Security
- Special Nuclear Materials Proven

Specifications

Dimensions:	12 in x 9 in x 6 in
Weight:	28 lbs (3.1 lbs NiMH battery)
Battery life:	8-10 hours (external Li ion battery packs) 1 hour (internal battery)
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 ¹³⁷Cs 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

Dose-rate capacity: 85 kcps (10% Dead time) in 15 mR/hr ⁶⁰Co

Energy range: 40 keV – 3 MeV

Imaging energy range:

Pinhole (2.54-cm thick Pb 60°) : 40 keV – 662 keV

Compton: 140 keV – 3 MeV

Isotope library (400 Isotopes): Auto detect and/or user specified

Isotope Identification: 35 frequently encountered isotopes

Detector (Ge crystal) dimensions: 90-mm diameter, 10-mm thick

Active detector volume: 55 cm³

Active detector area: 55 cm²

Cool-down time: 2.5 hours

Start-up time (cold): 2 minutes

Included: Tablet, pelican case, power supply w/charger

Rolling Pinhole Imaging Tripod
1-in thick Pb
60-degree Field of View



Features

- Standoff Location Detection Identification
- Distance Range (10 cm - 50+ meters)
- Automatically specifies SNM, NORM, IND, MED
- Germanium gamma-ray spectroscopy
- Full 360° Standoff Visualization (Compton)
- ²³⁵U (186 keV) ²³⁹Pu (375 keV, 414 keV)
- User-friendly auto tablet or laptop operation
- Full session save and reload capability
- Named-pipe data acquisition and system control
- Full data-stream access
- Wireless capable
- Twist-lock mil-spec power connector
- Long-lived mechanical cooler (5 years +)
- Reachback file: ANSI N42.42 format



External Li ion Battery Pack

