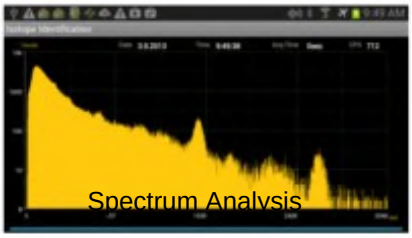
Model SAM 945 Isotope Identifier



Features:

- Completely portable, ANSI compliant isotope identification system with smart phone pictures and text easily attached to spectral data reports
- Intuitive full suite of new features leveraging modern cell phone technology
- Identification of multiple radionuclides concurrently within one second
- Special Nuclear Material (SNM) detection enhanced with integrated neutron detection option
- Spectra and user settings transfer easily to PC through USB adapter
- Auto-correction for changes in ambient background (NORM) ensures high sensitivity without false positives

Applications:

Emergency Response, Law Enforcement, Homeland Security, Undercover Surveillance, HAZMAT, Industrial, Medical, Radiation Safety, Passenger and Freight Monitoring, Non-proliferation Enforcement, Health Physics, Environmental Waste Monitoring, Unattended/Remote Monitoring

Model SAM 945

Radioactive Isotope Identi cation Device (RIID)

The SAM 945

The SAM 945 is a Radioisotope Identification detector system (RIID) with real time ID response. The display uses smartphone technology with a PDA touch screen. The smart device allows intuitive operation with the ability to manipulate the spectrum using familiar touch-screen techniques.

The new radionuclide identifier instrument from Berkeley Nucleonics Corporation (BNC) offers specialized options such as Neutron detection, GPS and smart phone technology for touch screen operation and easy transfer of data. The standard configuration includes a 2x2 sodium iodide NaI(Tl) detector, and long lasting Lithium-ion batteries.

SPECIFICATIONS:

Detector	NaI	General Purpose Isotope Identification
	CeBr	SNM enhanced, High Resolution Spectroscopy
	3He	Neutron Detection (optional)
	GM-Tube	High Dose Rates (optional)
Electronics (MCA)	Digital Signal Processing 250,000 to 400,000 CPS (Cs 137)	
Data Output	Format	XML, ANSI N42.42 Compliant
	Reports	ID, Confidence Level, Dose Rate, etc. with over 10,000 reviewable events
	Identification	Isotope, Category, Confidence
	Range	20 keV - 3.0 MeV
Battery Details	Identifier	>8hours, Lithium Ion
	Smartphone	>8 Hours normal use / brand dependent
	Charging	12VDC (Vehicle) or Wall
Communication	Bluetooth, USB	
Enclosure	Dust / Moisture	IP65
	Droppable	1M Drop Test
	Water	Spray
	Dimensions	10" x 5" x 6"
	Weight	6lbs (with standard detector)
	Operating Temperature	-20C to 50C
Display	Smartphone Dependent	Appx 5" OLED
Calibration	Auto-calibration and Auto-stabilization	
Library	ANSI with color coded classifications expandable USER library (optional) Help-Enabled Isotope Directory Expandable to 497 Isotopes	
Function	Background, Dose and Dose Rate, Isotope ID, Search	
Memory	>10,000 events with User Notes	
Smartphone Functions	Operational Modes (User/Supervisor), GPS, Data Communication, Camera, Voice	

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