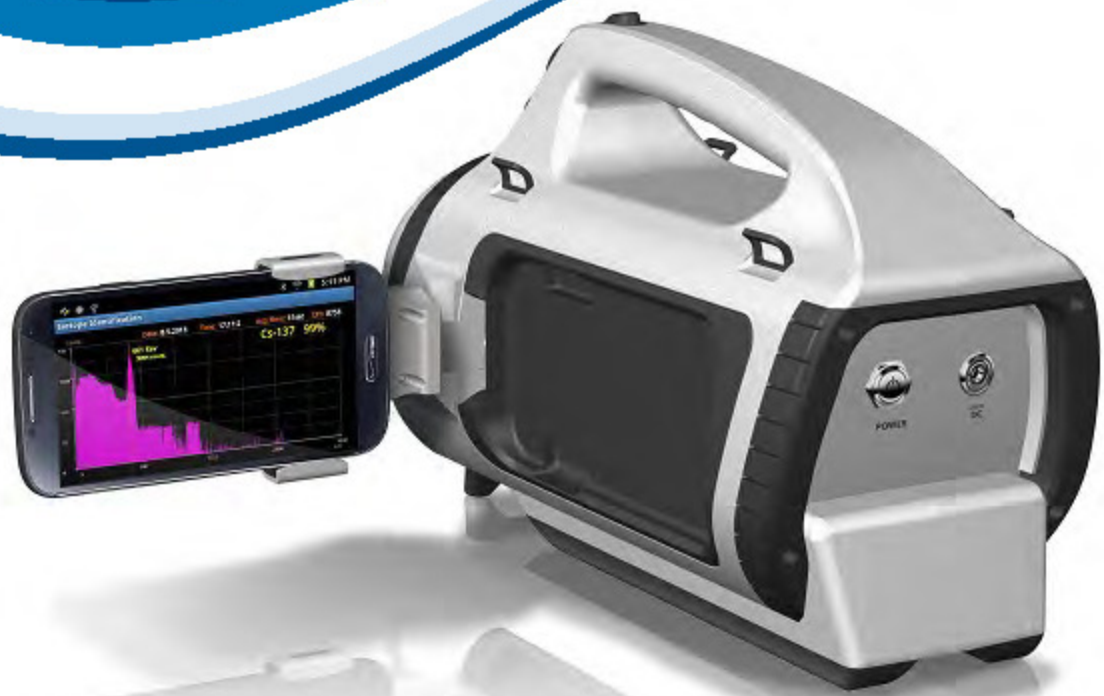
Model 945 SAM III

Isotope Identifier



FEATURES

- Handheld ANSI Standards N42.42 & N42.43 Compliant Isotope Identifier with SmartPhone
- Identify Multiple Nuclear Isotopes < 1 Second
- Optional ^{3}He Neutron Detector (for SNM)
- Auto-Calibration and Stabilization
- Photo-Tagging with N.42 Data Networking
- Industry's Largest Library (497 Isotope Options)

APPLICATIONS

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

BNC Berkeley Nucleonics

Test, Measurement and Nuclear Instrumentation since 1963

Model 945 SAM III

Radioactive Isotope Identification Device (RIID)

The Model 945 SAM III -- Radioisotope Identification Device (RIID)

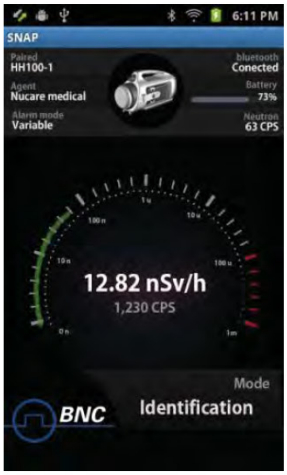
The latest identifier from Berkeley Nucleonics offers the convenience and familiarity of smartphone /PDA technology with powerful identification and analysis algorithms. The handheld Model 945 gives users realtime updates on isotope ID, isotope class, dose rates and count rates. The useful library options allows users an application-specific experience (Medical, ANSI, SNM, NORM, User-Customized, etc…) The library is expandable (to 497 isotopes).

The current feature list in the SAM 945 is eye-popping. In addition to a variety of triggering options and data collection or storage routines, the new handheld gives users handy extras like photo-tagging or mid-acquisition time adjustments. The GPS details and other environmental conditions are automatically acquired without the need for special user involvement. The utility of using a smartphone/PDA is remarkable, with vibrant display options, ringtones and alarm sounds, efficient power conservation and an IP65 rated detector package. PeakAbout…the App for the Model 945 SAM III is included at no charge and is updated with new features regularly by Berkeley Nucleonics.

For the next generation of Isotope Identifier users, the SAM III should be considered.

Vertical Orientation for Fast Dial Search

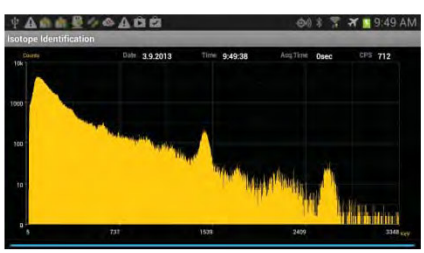
Horizontal Orientation for Spectra Review & ID



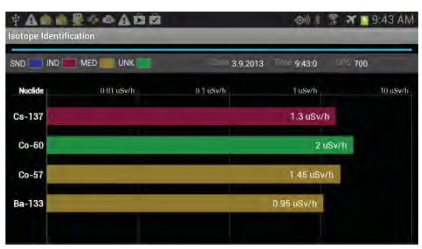
Display Indicators (BKG, Library, Mode, Alarm State

Display Closed for Transport, Unmanned Monitoring

Tripod Mount for Radiation Screening



Touch Peaks to Obtain Supporting Information



Color Coded Isotope Class and Details

Specifications:

Detectors:	NaI	(General Purpose Isotope Identification)
	CeBr	(SNM enhanced, High Resolution Spectroscopy)
	3He	(Neutron Detection, *Optional*)
	GM-Tube	(High Dose Rates, *Standard*)
Electronics	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:	20keV - 3.0 MeV
Battery Details	**Identifer:**	>8 hours, Lithium Ion
	Smartphone:	>8 hours normal use / brand dependent
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 Temp:	-20C to 50C
Calibration	Auto-calibration and Auto-stabilization	
Library	ANSI with color coded classifications, expandable USER library (optional) **(ANSI 42.34 compatible)**	
Function	Background, Dose and Dose Rate, Isotope ID, Search	
Memory	> 10,000 events with User Notes	
Smartphone Functions	Operational Modes (User/Administrator), GPS, Data Communication Camera, Voice Recorder	

Ordering Instructions:

Model 945-G	**SAM III Isotope Identifier (NaI)**
Model 945-GN	**SAM III Isotope Identifier with Neutron Detection**
Model 945-HR	**SAM III Isotope Identifier with High Resolution Detector**
Model 945-HRN	**SAM III Isotope Identifier with High Resolution Detector and Neutron Detector**

Delivery is 30 Days ARO, Demo Units in Stock.
Shipping Weight with Travel Case, Approximately 12 lbs.
Shipping Dimensions 20"x25"x30"