

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 ^3He 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



Berkeley Nucleonics
Test, Measurement and Nuclear Instrumentation since 1963

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 Closed for Transport, Unmanned Monitoring



Tripod Mount for Radiation Screening



Display Indicators (BKG, Library, Mode, Alarm State)



Touch Peaks to Obtain Supporting Information



Color Coded Isotope Class and Details

Specifications:

Detectors:	Nal (General Purpose Isotope Identification) CeBr (SNM enhanced, High Resolution Spectroscopy) 3He (Neutron Detection, <i>Optional</i>) GM-Tube (High Dose Rates, <i>Standard</i>)
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	Identifier: >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 Handheld Radiation Isotope Identifier, Gamma Detector
Model 945-GN	SAM III Handheld Radiation Isotope Identifier, Gamma and Neutron Detector
Model 945-LG	SAM III Handheld Radiation Isotope Identifier, 1.5 x 1.5 Lanthanum
Model 945-LGN	SAM III Handheld Radiation Isotope Identifier, Lanthanum, He3
Model 945-CG	SAM III Handheld Radiation Isotope Identifier, 1.5 x 1.5 Cerium
Model 945-CGN	SAM III Handheld Radiation Isotope Identifier, Cerium, He3
Model 945-HR	SAM III Handheld Radiation Isotope Identifier, High Resolution Gamma Detector
Model 945-HRN	SAM III Handheld Radiation Isotope Identifier, High Resolution Gamma 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"

