

## Features

- Rich PDA-Based Feature Set
- Immediate Reach-Back Emailing
- Behind the Scene Auto-Calibration
- Water and Shock Proof
- High Resolution Gamma and Neutron
- Multimedia Training and Support

## Applications

- Secondary Radiation Screening
- Medical / Industrial Nuclear Controls
- Event Management
- Health Physics / Hazmat Support
- Port and Border Law Enforcement



**Model SAM 950**  
Ruggedized Isotope Identifier



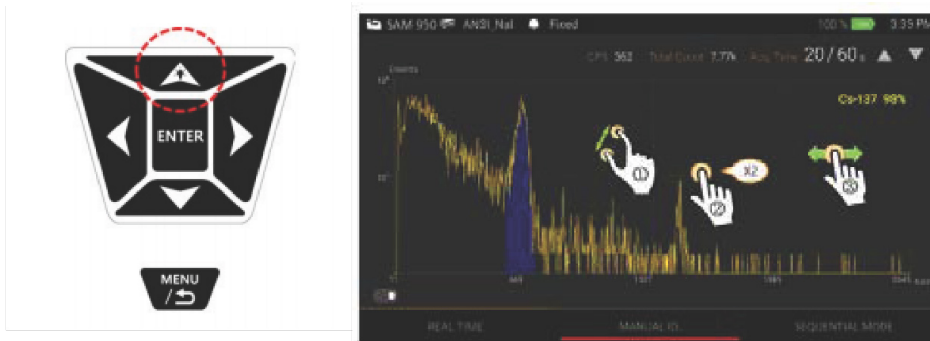
# SAM III 950

## Model SAM 950 Ruggedized Isotope Identifier

### Description

The SAM 950 Ruggedized Isotope Identifier is the only RIID available with an internal, hardened 3"x3" NaI detector option. The higher sensitivity associated with the large volume NaI detector ensures rapid screening of low activity threats, detection of masked or shielded isotopes, and quick spectroscopic analysis. The SAM 950 also offers users a smaller light-weight optional NaI detector as well as an optional solid-state neutron detector.

Users will love the interface, following touch movements common to smart phones. You can expand on peaks in a spectrum to take a closer look at the energy peaks, or swipe sideways to additional alarm and event details. Once a report is generated, quickly append the report with photos, voice memos and video.



\*Touch Screen or Bubble Key Pad

Reach-Back is greatly simplified with the latest release of PeakAbout, the BNC app that runs the suite of new SAM III products. With a single button, you can send to a predefined list of email addresses, a copy of the incident report, a known isotope measurement and a background report. Situational details such as photos and video can be included in the auto-reporting function, or set for on-request only.

### Rad-Responder, STC and FBI Integration

With simple menu settings, management can determine the appropriate protocols to be enacted and the destination locations for the data to be sent. End users can use commercial satellites or government supplied hotspots to transmit data. Encryption is available as well.

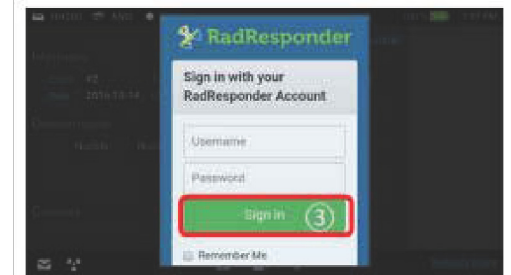
For user groups with larger programs, PeakGo offers integration into user defined command center applications. The data, complete with spectroscopic analysis and first responder commentary, travels seamlessly using WiFi or 4G to the user receiving destination.

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### Product Enhancements

The SAM 950 has been enhanced with some useful application specific tools:

- ✓ See the new LED Flashlight for nighttime operations or analysis indoors in poorly lit areas (warehouse, duct systems, storage containers, etc).
- ✓ The shoulder mount clips have been repositioned to balance the weight equally for the end user when operating for long periods.
- ✓ An added GM-Tube offers alarm indication and high count rate measurements in the event that the NaI detector is saturated. Follow the on-screen directional arrows (Move Back, etc) to obtain accurate Isotope Identification and Spectroscopy.
- ✓ A convenient Tri-Pod mount is included on the underside of the instrument, enabling fixed geometry spectroscopy or monitoring packages and personnel.



Log In with RadResponder Credentials

### SAM 950 Ordering Information

Model 950-XX-YYY	(XX = Type, YYY=Gamma Detector)
G-	NaI Gamma
GN-	NaI Gamma with Neutron
-N15	1.5"x1.5" NaI Detector
-N20	2.0"x2.0" NaI Detector
-N30	3.0"x3.0" NaI Detector
HG-	High Resolution Gamma
HGN-	High Resolution Gamma with Neutron
-C15	1.5"x1.5" CeBr3 Detector
-C20	2.0"x2.0" CeBr3 Detector
-L15	1.5"x1.5" LaBr3 Detector

## SAM 950 Specifications

<b>Application</b>	Secondary Screening, Isotope Confirmation, Spectral Analysis, Dose Rate Meter, Data Logging, Source Locater
<b>Modes</b>	Finder (source hunt), Identification, Analysis, Reporting
<b>Interface</b>	Keypad and Touchscreen, One Hand / Gloved Operation
<b>Energy Range (Gamma)</b>	20 keV – 3.0 MeV
<b>Energy Resolution</b>	Nal Detectors <8% @ 662 keV LaBr3 Detectors <3% @ 662 keV CeBr3 Detectors <4% @ 662 keV
<b>MCA Electronics</b>	10-bit, 1024 channels, proprietary electronics design
<b>Dose Rate Range</b>	0-10 mR/hr (Nal), 10 mR/hr – 10 R/hr (GM Tube)
<b>Stabilization</b>	Automatic Real Time Stabilization, No External Source Required
<b>Isotope Identification</b>	Typical 2-10 seconds, ANSI compliant Library, Isotope/Category/Confidence Level
<b>Battery</b>	>8 Hours continuous use, Lithium Ion w/Low Battery Indicator Standard AA Alkaline Battery Adapter (optional)
<b>Alarms</b>	Audible (Waterproof Speaker on Rear) Visual (On Screen Indicator)
<b>Alarm Types</b>	Gamma Dose Rate, Gamma Count, Neutron Count, CPS Secondary Health Alarm – Danger Indication
<b>Detector Types</b>	Nal(Tl): 1.5"x1.5", 2.0"x2.0", 3.0"x3.0" LaBr3 / CeBr3: 1.5"x1.5", 2.0"x2.0" GM Tube: Gain Compensated Geiger-Muller Detector Solid State Neutron: 4 cm <sup>2</sup> active area, 20% thermal N eff., $\gamma$ rej. 1:107
<b>Library</b>	ANSI, ANSI+ 2015, Medical, Industrial, User Defined
<b>Reach-Back Tool</b>	ANSI N42.42-2012 or CSV Event Data via Email Distribution List or WiFi (Rad Responder)
<b>Application</b>	Android Based Application (PeakAbout) for Smartphones, Tablets. Windows Based application for Command Center integration.
<b>Dimensions (WxDxH)</b>	192 mm x 356 mm x 214 mm
<b>Weight</b>	4.3kg (9.5 lb) w/ 3x3 inch Nal(Tl) 3.2kg (7 lb) w/ 2x2 inch Nal(Tl)      2.9kg (5lb) w/ 1.5x1.5 inch LaBr3, CeBr3, Nal
<b>Operating Temp.</b>	-4°F to 122°F
<b>Rel. Humidity</b>	10% to 90%, non-condensing
<b>Water / Dust Protection</b>	IP65 Rated, Sprayable for Decontamination
<b>Connectivity</b>	MicroUSB 2.0, WiFi, Bluetooth 4.1 (ANSI N42.42-2012)
<b>PDA Features</b>	Camera : CMOS, 13.0 MP Display : 5" Touch Screen / AMOLED GPS : Built-In with LAT/LONG logging
<b>Speaker</b>	84 dB (1 W / 0.5 m), Waterproof
<b>Package Contents</b>	Power Charger (12 V, 3 A), Vehicle Charging Adapter, Shoulder Strap, Pelican Hard Case, Calibration Certificate (NIST Traceable)