Model RD-120 SAMpack Isotope Identifier



FEATURES

Sigma threshold triggering with auto correction.
(Allows high sensitivity during changes in background)

- < 9 lbs, Easily carried in serveral configurations</p>
- Low power consumption and Lithium Ion battery allows 24 hours operation

• Clandestine mode with or without earphones (e.g, vibration mode, color alert, real-time spectrum)

- Shock resitstant and water resistant
- Automated detector calibration
- Smart phone, ring tones, camera, etc.

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



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SAMpack

Standard Internal Detectors	3x3 Nal	Highest Sensitivity General Purpose Isotope Identification
	GM-Tube	High Gamma Count Rates
Internal Alternatives to Nal	1.5x1.5 LaBr	Highest Resolution Specialized Identification and Spectroscopy
	1.5x1.5 CeBr	Less Costly, High Resolution Identification and Spectroscopy
Optional Internal Detector	Neutron Option	Solid State Detector
Electronics (MCA)	Digital Signal Processing	
, ,	32 bit RISC, ARM Cortex	
	4096 Channels	
	150,000 CPS max	
Alarms	Automatic	Count Rate, Dose Rate, Health/Safety, Neutron Rate (optional),
	Adjustable Threshold	Fixed or Variable (up to 5 Sigma)
Data Output	Туре	1024 Channel Spectra, Alarm Conditions, Count Rates,
		Dose Rates, Channel Energy and Count, Time, Location
	Identification	Isotope, Classification, Confidence
	Energy Range	20 keV - 3.0 MeV
	Dose Rate Range	10 nR/hr - 10 R/hr
	Reachback	XML, per ANSI N42.42
Operational Modes	User, Administrator	Independently or Networked
	Designed to meet or exceed requirements of ANSI	
Functions	N42.34 (2006)	
	Background, Dose, and Dose Rate	
	Search, Manual Capture, Automatic Capture,	
	Isotope ID	
Enclosure	IP65 Rated	Droppable to 1 m, Water Spray Resistant, Dustproof
	Dimensions	10" x 5" x 6"
	Weight	8 lbs max (w / Nal Detector)
	Operating Temperature	-20° C to 50° C
	Deployment	Handheld, 4 Steel Cleats for Shoulder Strap
		Detachable for Stand-off operation, Tripod Mountable
	25 ANSI, 7 SNM, 7 Medical, 7 Industrial, 4 NORM,	
Library	Customizable	
	Color Coded Classification Data	
	User enabled, On-screen Isotope Help Directory	
	Expandable to include 393 Isotopes from Kocher's	
	Radioactive Decay Data Table	
Smartphone Functions	Display	5" OLED Touch Screen
	Control	Secure Mounting, Tilt-able and Rotatable
	Event Alarms	Adjustable Speaker Volume, Headphones, Vibration, and Visual Display
	Location	3G GPS, Reported in Spectrum File
	Communication	Bluetooth, Wi-Fi, micro USB, and Cellular Network (optional)
	Features	Camera, Video and Voice Recording attached to Spectrum File
File Memory	4.5 GB including Event Notes, Photos, Videos	4012
Calibration	Automatic Self-Calibration	
	Automatic Self-Stabilization	тоК
	Manual Calibration	^{13/} Cs
Battery Details	Identifier	Li-Ion, 24 hours
	Smartphone	Li-Ion, 24 hours
	Charging	12 VDC Wall (AC) or Vehicle (DC)

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SAMpack

The Model RD-120-G SAMpack -- Backpack Radioisotope Device (BRD)

The Model RD-120-G is a remote controlled radiation detection and identification system which can be configured as a backpack, shoulder pack, stationary monitor or custom design. Clandestine operation is convenient with a smart phone or PDA Bluetooth controller. Operation is intuitive and automated with event monitoring in real time. ANSI standard reports and spectra are displayed on the smart device with the ability to manipulate the spectrum, review data and transmit all information to the users command center. The RD-120-G is designed to carry out various emergency response operations involving hazardous rad waste, orphaned sources, remediation activities and unobtrusively monitoring for WMD and RDD threats. The high sensitivity of large NaI detectors makes this system unique for many applications. GPS data, photos and note are also available which become part of the event log.





Ordering Options:

Model / P/N	Product Description	
M odel RD-120-G	SAMPack, Backpack Isotope Identifier	
Model RD-120-GN	SAMPack, Backpack Isotope Identifier with Neutron Detection	
M odel RD-120-LG	SAMPack, Backpack Isotope Identifier	
Model RD-120-LGN	SAMPack, Backpack Isotope Identifier, Lanthanum, Neutron Detector	
Model RD-120-CG	SAMPack, Backpack Isotope Identifier, Cerium	
Model RD-120-CGN	SAMPack, Backpack Isotope Identifier, Cerium, Neutron Detector	
Model RD-120-2CG	SAMPack, Backpack Isotope Identifier, 2.0 x 2.0 Cerium	
Model RD-120-2CGN	SAMPack, Backpack Isotope Identifier, 2.0 x 2.0 Cerium, He3	

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