RS-125 Super-SPEC

Handheld Radiation Detector

Providing Search, Assay Scan Modes of Operation







Survey and Scan Modes

In addition to a Survey (total count) non-recording mode, the unit also features a Scan mode which records the total count at a one second rate. Large easy to read **5 digit display** giving a wide dynamic range, no overflow.

Assay Mode

The assay mode provides the concentrations of K, U and Th as shown in the display below. The user can select the desired sample time.



RS-Analyst Software

The RS-230 is provided with utility software to download the data that is stored in memory. This may take the form of 1024 channel spectral, the assay and GPS (future) data that is stored in the unit. Also the total count data resulting from the scan mode. The data can also be re-exported as a text file for further processing.

Modes of operation
- Survey, Assay and Scan

Internal Data Storage Memory
- Assay +1024 ch spectra, 128 samples

Data Input / Output
- USB, Bluetooth (BT)
- GPS link via BT

Temperature Range:
- -20 to +50 degrees Celsius

Control:
- Single one button, thumb activated

Alarm:
- Audio via miniature speaker.
- Variable audio threshold set point.
- Audio proportional to count rate.

Weight:
- 4.2 lb (1.9 kg) including batteries

Standard Accessories;
- RS-125 1024 ch spectrometer with attached carrying handle
- Battery cartridge with 4 rechargeable NiMH AA batteries
- Spare battery charging cables (AC & DC)
- USB cable
- RS-analyst utility software on CD
- User manual
- Aluminum carrying case with foam insert



Options
- Optional protective rubber boot

Software
- Utility software for data retrieval

Size & Package Style
- 10.2" x 3.2" x 3.8" (259 mm x 81. mm x 96 mm)
- 1 mm aluminum outer case
- In a flashlight configuration with side support strap

Display:
- 128 x 64 pixels, (1 1/8" x 2 3/8")
- Graphic LCD display with white backlight and automatic dimming

Readout:
- Search Mode: Counts in CPS from 0 to 65,535 and Histogram chart
- Assay Mode: Display in %K, ppm of U & Th

Energy Response:
- 30 keV 3000 keV

Internal Sampling:
- 20 / second

Batteries:
- Internal battery pack module (4xAA) easily replaceable
- Rechargeable or Alkaline
- Life: 8 + hours at 20 degrees C

Specifications subject to change without notice #08.07



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Radiation Solutions Inc. is a Canadian company specializing in nuclear instrumentation for the detection, measurement and analysis of low level ionizing radiation from both naturally occurring or man made sources.

RSI's focus is the design and manufacture of airborne and mobile systems using advanced DSP (Digital Signal Processing) technology. This technology provides a level of quality previously only attainable in laboratory equipment.

RSI's philosophy is to work as closely as possible with customers in all aspects of the product life cycle including; product requirement, application, training, support and product improvement. It is this philosophy that will enable RSI to supply industry leading software techniques and hardware components that not only meet, but exceed the customer's requirements.