



Introducing the

## RS-125 Super GAMMA-RAY SPECTROMETER with Memory Providing Search, Scan, and Assay Modes of Operation



### ***RS-125 – Ideal For Field Exploration***

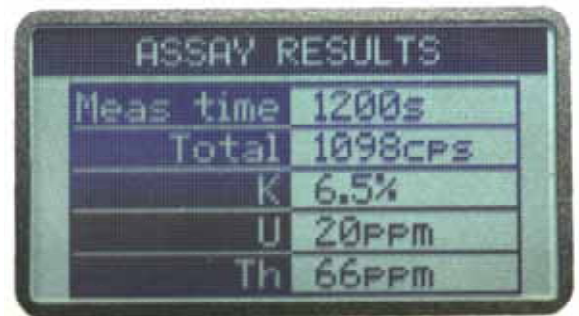
*The RS-125 Gamma-Ray Spectrometer/Scintillometer is the state-of-the-art in a portable hand-held radiation survey search device for the geophysical industry. It offers an integrated design with a large detector, for survey or search, direct Assay, redout, a Scan mode, and data storage. It offers full weather protection with ease of use. In addition, it has **Bluetooth (BT) connectivity** providing for wireless connection to a Bluetooth equipped external GPS receiver, earphone or computer.*

*The spectrometer is auto-stabilizing on the naturally occurring (K, U, & Th) radioactivity and does not require any test sources.*

## Features Include:

- ❑ High Sensitivity with large 2.0 x 2.0 NaI crystal 103 cm<sup>3</sup> (6.3 in<sup>3</sup>)
- ❑ Lightweight & rugged 4.4 lb (2 kg) including batteries
- ❑ Easy to use, single button
  - **survey**, **scan**, and **assay** modes of operation
- ❑ **Assay** mode readout in %K, ppm of U & Th
- ❑ Auto-stabilizing on naturally occurring radio elements
- ❑ 5-digit LCD display with high count rate – 65,535 cps
  - scrolling histogram graph display of last 100 readings
- ❑ Fast audio output with adjustable audio threshold set point
  - BT earphone audio support for noisy area surveying
- ❑ Bluetooth and USB equipped with external GPS integrated into data stream via BT
- ❑ Special rugged design to withstand typical field usage, full IP67 weatherproofing short term water immersion and fully dust protected
- ❑ Low power (4 x AA batteries)
  - typical 8 – 12 hour battery life at 20°C
- ❑ No radioactive sources required for proper operation

The RS-125 allows the user to produce profiles of the total count data from either the Search, Scan, or Assay modes. The data can be from a drill core scan or from a survey with GPS positioning data.



## Survey and Scan Modes

Total Count readout at a 1x / sec. rate in the Survey Mode or variable (1 – 20 sec.) in the Scan Mode. When used with a GPS receiver, data can be stored and profiles produced. Ideal for both area survey and drill core scanning.

## Assay Mode

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

## RS-Analyst Software

The RS-125 is provided with utility software to download the data that is stored in memory. All data in memory can be transmitted via Bluetooth or USB to the RS-Analyst program on a PC. This may take the form 1024 channel spectra, field or Scan data + GPS. The program also gives graphical and numeric views of the data. The data can also be re-exported as a text file for further processing.

## Standard Accessories

- RS-125 Spectrometer with carrying handle
- Removable protective boot with shoulder strap
- Battery cartridge with 4 x AA rechargeable batteries & charger
- Spare battery holder cartridge
- RS-Analyst utility software
- USB cable
- User guide
- Delivered in hard case with foam insert

## Specifications

### Temperature Range

- -20 °C to +50 °C

### Control

- Single one button, thumb activated

### Alarm

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

### Weight:

- 4.4 lb (2 kg) including batteries

### Size & Package Style:

- 10.2" x 3.2" x 3.8" (259mm x 81 mm x 96 mm)
- 1mm thick outer case
- In a flashlight configuration with detachable handle

### Memory

- 2 MB
- Memory can be partitioned for desired storage

Example:

Scan Total Count only – 94,000 readings

Scan + Assay – more than 1000 readings

Assay only – more than 400 readings

(plus full spectrum)

### Data Input/Output

- (Using supplied RS-Analyst Software)
- USB
- Bluetooth
- GPS link via BT

### 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 (ROIs per IAEA)

### 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 °C



*Specifications subject to change without notice # 09.08*