



**RADIATION
SOLUTIONS INC**

RS-125 Super-SPEC

Handheld Gamma-Ray Spectrometer



Providing Survey, Scan & Assay Modes of Operation

RS-125 - Ideal For Field Exploration

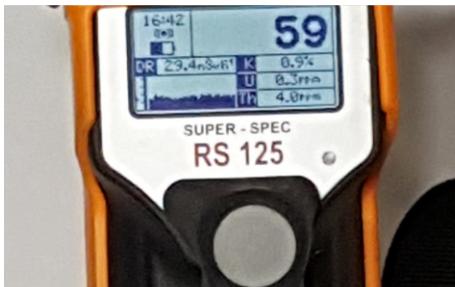
The RS-125 Spectrometer is the industry standard in portable handheld gamma ray survey devices for geophysical applications. It offers an integrated design with a large detector for survey or search, direct Assay readout, scan mode and data storage. It offers weather protection with ease of use. Wireless Connectivity provides wireless connection to an external GPS receiver, earphone or computer.

APPLICATIONS



FEATURES

- High sensitivity with large 2" x 2" NaI crystal 6.3 in³ (103 cm³)
- Lightweight & rugged 4.4lb (2kg) including batteries
- Easy-to-use, single button operation
- 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 scrolling histogram graph display of last 100 readings
- Fast audio output with adjustable audio threshold set point
 - Wireless Connectivity earphone audio support for surveying in noisy environments
 - Unique audio feedback
- Wireless Connectivity and USB equipped with external GPS integrated into data stream
- Special rugged design to withstand typical field usage, weatherproof, water and dust protection
- Typical 8-12 hour battery life at 20°C (4 x AA batteries)
- No radioactive sources required for proper operation
- Supplied in hard case with moulded insert for shipping and storage



SPECIFICATIONS

Large 2" x 2" NaI(Tl) crystal, 6.3 in³ (103cm³)

- 1024 channel spectrometer

- Energy Range 30keV – 3000keV

Assay and survey modes with automatic recording of data

On-the-fly Assay

Auto-stabilizing on naturally occurring radio elements

Readout

- Survey mode: counts in CPS from 0 to 65,535 and histogram chart

- Assay mode: display in %K, ppm of U & Th (ROIs per IAEA)

Audio via miniature speaker

- Variable audio threshold set point

- Audio proportional to count rate, internal sampling 20/second

Single button control

Graphic LCD display 1 1/8" x 2 2/3" with white backlight and automatic dimming

Memory

- 4MB, memory can be partitioned for desired storage.

- More than 250,000 readings or 70 hours of readings.

Data Input / Output

- Via USB or Wireless Connectivity (using supplied RS-Analyst software)

Temperature Range -20°C to +50°C

RS-125 Size and Weight

- 10.2" x 3.2" x 3.8" (259mm x 81mm x 96mm)

- 4.4lb (2kg) including batteries

Internal detachable battery pack

- Typical Life 8+ hours at 20°C
- 4 x AA type rechargeable or alkaline

Standard RS-125 Package

- 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

RS-125 Super-SPEC

Handheld Gamma-Ray Spectrometer

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

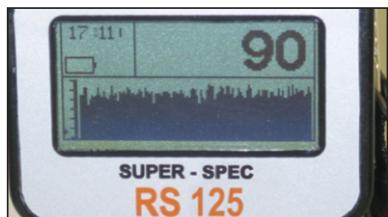


Survey Mode

The total count read out is typically set at a once per second rate. The range is variable from 1-20 sec. integration. When used with a GPS receiver, data can be stored and profiles produced. It is ideal for both area and drill core scanning.

Assay Mode

The assay mode provides the concentrations of K, U and Th. The user can select the desired sample time from 30 to 1800 seconds. On-the-fly assay is a feature available when automatically recording the data and is at a minimum of 30 second intervals.



RS-Analyst Software

The RS-125 comes complete with RS-Analyst utility software to download data stored in the instrument's memory. All data in memory is output via Wireless Connectivity or USB to the RS-Analyst program on a PC. This may take the form of 1024 channel spectra, data 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.

Radiation Solutions Inc.

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

RSI's industry-leading radiation detection technology incorporates a fully digital system design, spectral analysis and advanced data processing. RSI deploys this technology in stationary systems, airborne and mobile systems, portable and handheld spectrometers. This provides a level of quality previously only attainable in laboratory equipment.

RSI is committed to working closely with customers in all aspects of the product life cycle including product requirement, application, training, support and product enhancement. Our comprehensive approach results in state-of-the-art hardware components, and software that produce outstanding results exceeding expectations.

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