

RS-125 Super-SPEC

Handheld Gamma-Ray Spectrometer

APPLICATIONS



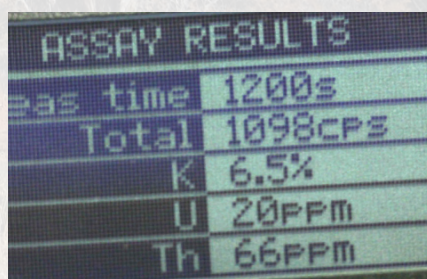
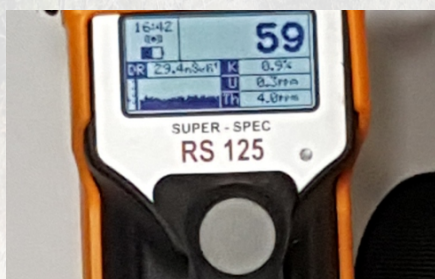
FEATURES

- 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 radioelements
- 5-digit LCD display with scrolling histogram graph display of last 100 readings
- Fast audio output with adjustable audio threshold set point
 - Unique audio feedback
- 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

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.



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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.



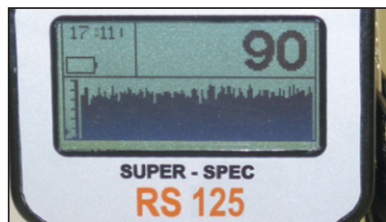
Survey Mode

The total count read out is typically set at a once per second rate. The range is variable from 1-20 sec. integration. 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 USB to the RS-Analyst program on a PC. This may take the form of 1024 channel spectra, data or scan data. 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.



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 (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

Specifications subject to change without notice #04/26



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