RADIATION SOLUTIONS INC



RS-225 Super-SPEC

Handheld Gamma-Ray Spectrometer

Providing Survey, Scan & Assay Modes of Operation

KEY FEATURES

- High sensitivity with large 2" x 2" Nal crystal, 6.3 in^3 (103 cm^3)
- Greater sensitivity to terrestrial radiation than previous generations
- Internal GPS
- Advanced spectrometer offers shorter measurement times, speeding up data acquisition
- User friendly illuminated joystick menu navigation

RS-225 Super-SPEC

The RS-225 handheld spectrometer builds on the industry-leading 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.

The RS-225 provides dust and water resistance and ease of use. Bluetooth® and Wi-Fi communication deliver wireless connectivity to all acquired data.







RS-225

The RS-225 allows the user to produce profiles of the total count data from either the Survey or Assay modes. The data can be obtained continuously 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 the internal GPS, data can be stored, and profiles produced. It is ideal for both area and drill core scanning. Expandable for On-the-fly Assay, where K, U, and Th precursors are evaluated while surveying.

Assay Mode

The assay mode provides readouts in %K, and ppm of U and Th. Sample times are user selectable and can be between 30 and 1800 seconds. On-the-fly Assay is available when automatically recording the data and is at a minimum of 30 second intervals.

RS-Analyst Software

RS-Analyst utility software is included in the RS-225 to download data stored in the instrument's memory. All data in memory is output via Blutooth®, Wi-Fi or USB-C to the RS-Analyst program on a PC. This may take the form of 1024 channel spectral data or scan data & GPS. The program also gives graphical views of the data that can be re-exported as a text file for further processing.

WHY CHOOSE RSI?

Accurate Readings

We offer advanced radiation detection devices with high-sensitivity sensors and real-time monitoring, ensuring precise and reliable measurements across diverse applications.

Exceptional Service

We go beyond advanced products to deliver exceptional service, ensuring every customer experience exceeds expectations with expert support and responsiveness.

Reliable Products

We deliver reliable, high-performance radiation detection products designed for safety, compliance, and efficiency, ensuring durable and easily integrated solutions across industries.

TECHNICAL SPECIFICATIONS

Large 2" x 2" NaI crystal, 6.3 in³ (103 cm³)
- 1024 channel spectrometer
- Energy Range 20 keV to 3 MeV

Assay and survey modes with automatic recording of data

On-the-fly Assay

Auto-stabilizing on naturally occurring radio elements

Readout
- Survey mode: entire energy range
- Assay mode: display in %K, ppm of U & Th

Audio via miniature speaker
- Variable audio threshold set point
- Audio proportional to count rate, internal sampling 20/second

User Friendly Illuminated Joystick
- User friendly menu navigation

Large LCD screen with sun readable automatic backlight

Memory
- 4GB, memory can be partitioned for desired storage
- More than 250,000 readings or 70 hours of readings

Data Input / Output
- Via USB-C, Bluetooth®, or Wi-Fi (using supplied RS-Analyst software)

Communication
- Bluetooth®
- Wi-Fi
- USB-C

GPS
- Internal - GNSS engine for GPS
- External GPS connectable (if required)

Temperature Range
- -10˚C to + 50˚C

Size and Weight
- 11.4" x 3.9" x 6.3" (289 mm x 99 mm x 160 mm)
- 6.6 lb (3 kg) including battery

Battery
- Internal battery pack
- Typical Life 8+ hours at 20°C
- Rechargeable Li-ion 7.2 V/ 6600 mAh

Standard Package
- Delivered in hardcase with foam insert
- RS-Analyst software
- USB-C Charging Cable
- Users Guide

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