



**RADIATION  
SOLUTIONS INC**

**RS-330/332**

**Portable Gamma-Ray Spectrometers**

## APPLICATIONS



## FEATURES



### RS-330/332 Series Portable Gamma-Ray Spectrometers

The RS-330/332 portable gamma-ray spectrometers provide high sensitivity for geophysical and environmental applications. Customizable parameters allow advanced users to define methods of measurements. Special features and options ensure users of quality results in the field. Options are available to change parameters for various setups. Audio enables a complete hands-free and eyes-free operation.

- Large 3" x 3" NaI (Tl) detector (RS-330)  
Large 2" x 2" BGO detector (RS-332)
- Powerful 1024 channel advanced gamma-ray FPGA spectrometer for high data throughput & essentially zero Dead-Time
- 4 Modes of operation
  - Survey, Assay/Lab, Identify, Spectrum
- Auto and continuous stabilization without the need of radioactive sources
- Integrated microphone for adding user audio comments to the data stream as required
- Tactile audio and visual alarm
- Large storage capacity: 8GB
- Built-in GPS
- Daylight-readable large colour display with auto-contrast adjustment
- >10hrs operation on battery
- Wide temperature range operation, dust & water resistant casing
- Fully customizable for advanced users: Calibration, display units, measurement method, alarm level



K_U_T_300			
1	K	0.88 +/- 0.05	%
2	U	< 3.0	ppm
3	Th	< 8.0	ppm
4	Dose	0.0	$\mu$ R
5	Dose rate	2.4	$\mu$ R/hr

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## SPECIFICATIONS

**Large 3" x 3" NaI(Tl) crystal, 21 in<sup>3</sup> (344 cm<sup>3</sup>)**

**Large 2" x 2" BGO crystal, 6.3 in<sup>3</sup> (103 cm<sup>3</sup>)**

- 1024 channel spectrometer

- Energy Range 15keV–3MeV

**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 CD display** 11/8" x 22/3" with white back light and automatic dimming

### Memory:

- 8GB 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** -10°C to +50°C

### RS-330 Size and Weight

- 54.2cm (length) x 12.5cm (diameter)
- 9lb (4kg) including battery

### RS-332 Size and Weight

- 46cm (length) x 12.5cm (diameter)
- 7.5lb (3.4kg) or 20lb (9kg) with collimator

### Internal battery pack

- Typical Life >10 hours at 20°C

### Standard RS-330/332 Package

- RS-330/332 Spectrometer
- Rechargeable battery & charger/external power
- RS-Analyst utility software
- USB cable
- User guide

• Delivered in hard case with foam insert

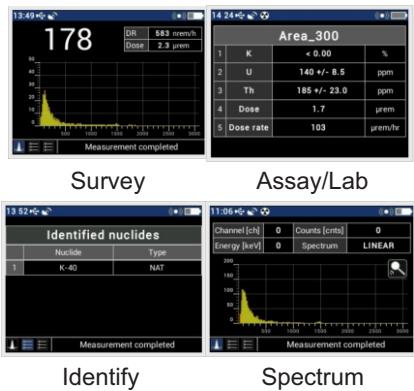
# RS-330/332

## Portable Gamma-Ray Spectrometers

The RS-330/332 portable gamma-ray spectrometers provide high sensitivity for geophysical and environmental applications. Options are available to change parameters for borehole or collimated setups. Advanced users are able to define and input their own measurement method.

### 4 Modes of Operation

Toggle easily among Survey, Assay / Lab, Identify, and Spectrum modes, accompanied with voice memo and GPS, allowing organized and maximized information retention.



### Field Survey and Assay

The RS-330/332 are calibrated using IAEA approved calibration pads for %K, eU, and eTh in order to provide the most accurate result for real-life infinite area geometry.

The integrated software allows post-processing on data analysis and in-depth spectroscopy analysis for advanced users.

The integrated GPS associates each data point with a GPS coordinate. This information can be used to import survey results into GIS software. Fully customizable parameter settings allow user-defined colour schemes.



### Radiation Solutions Inc

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

RSI's cutting edge radiation detection technology incorporates a fully digital system design, spectral analysis and advanced data processing. RSI deploys this technology in fixed installed, airborne and mobile systems, portable and handheld spectrometers providing a level of quality previously only attainable in laboratory equipment.

RSI is committed to working as closely as possible with customers in all aspects of the product life cycle including product requirement, application, training, support and product enhancement. Our comprehensive approach results in hardware components and industry leading software techniques that produce outstanding results above expectations.

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