



# RS-121 Super GAMMA SCINTILLOMETER with Memory

Providing Search and Scan Modes of Operation



## RS-121 – Ideal For Field Exploration

The RS-121 Gamma-Ray 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, direct Survey readout, Scan mode, data storage, full weather protection and ease of use. In addition, it has **Bluetooth (BT) connectivity** providing for wireless connection to a Bluetooth equipped external GPS receiver, earphone or computer.

### 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** and **scan modes** of operation
- 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 20oC
- No radioactive sources required for proper operation

The RS-121 allows the user to produce profiles of the total count data from either the Search or Scan modes.

The data can be from a drill core scan or from a survey with GPS positioning data.



## Survey Mode (Total Count)

The loud linear audio permits eyes-free operation with large easy to read 5 digit display showing the total count in cps at 1/sec update rate. It also has Bluetooth earphone support for noisy area surveying.

## Scan Mode

A variable rate scan mode (1 – 20 sec.) stores the data in memory. An external GPS can also be integrated into the data system via Bluetooth connection to provide location data.

## RS-Analyst Software

The RS-121 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 of 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-121 Scintillometer 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 oC to +50 oC

### Control:

- Single one button, thumb activated

### Internal Memory:

- 2MB providing more than 90,000 readings

### Data Output:

- Bluetooth (BT) and USB

**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)
- 1 mm aluminum thick outer case
- In a flashlight configuration with detachable handle

**Display:**

- 128 x 64 pixels, 1 1/8 x 2 3/8"
- Graphic LCD display with white back light and automatic dimming
- Counts in CPS from 0 to 65,535 and Histogram chart
- Update Rate: 1x / sec

**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*