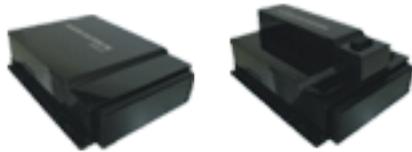




# PRODUCTS



## RS-500 AIRBORNE

The RS-500 supercedes all other airborne system due to the fact it utilizes advanced, leading edge DSP / FPGA \* technologies, making all current available systems obsolete by a significant factor, thus placing the RS-500 in a class of it's own.  
Spectrometer

### OUTPUTS

Inputs  
Channels 1024  
Differential nonlinearity <0.2% over top 99.5%  
Integral nonlinearity <0.01% over top 99.5%  
Zero dead time (1)  
Baseline restoration Digital (IPBR)  
Pulse shaping Digital (AOPS)  
Pile-up rejection Digital (<40nS)  
Pile-up contamination <1% @ 250kcps  
Sample rate 0.1-10 sec

### DETECTORS

RSX-4 4 x 4L NaI(Tl)  
RSX-5 4+1 x 4L NaI(Tl)



## RS-700 AIRBORNE

The RS-700 with it's Advanced Digital Spectrometer (ADS) is a high resolution (1024 channel) gamma spectrometer that makes the measurement of both the naturally occurring and man made radioactive elements as transparent and automatic an operation as possible allowing the system to be operated by radiation non-specialists, For Vehicle, Airborne or Fixed Location Real-Time Search, Surveillance and Data Recording.

### SPECTROMETER

Channels 1024  
Differential nonlinearity <0.2% over top 99.5%  
Integral nonlinearity <0.01% over top 99.5%  
Zero dead time  $\checkmark$   
Baseline restoration Digital (IPBR)  
Pulse shaping Digital (AOPS)  
Pile-up rejection Digital (<40nS)  
Pile-up contamination <1% @ 250kcps  
Sample rate 0.1-10 sec

### DETECTOR

RSX-1 4L NaI(Tl)  
RSX-3x3 0.4L NaI(Tl)  
Energy resolution <8.5%





# PRODUCTS



The new RS-120 Spectrometer is the state-of-the-art in portable hand-held radiation survey search devices for the geophysical industry. It offers an integrated design with a large detector, direct Survey readout, Scan mode, data storage, full weather protection, ease of use and highest sensitivity in the market.

## **RS-120 SUPER-SCINT (HANDHELD)**

### **FEATURES**

- Large 2.0 x 2.0 NaI crystal, 6.3 in<sup>3</sup> (103 cm<sup>3</sup>)
- High sensitivity (60% greater than current models available)
- Single button operation
- SURVEY mode gives search capability with numeric display and audio
- Fast AUDIO response, making source location easier and eyes free
- 5-digit LCD display with max 65000cps with no scaling
- Lightweight 4.4 lb (2 kg) including batteries
- Rubberized case for easy grip even in wet conditions
- Rugged carrying handle
- Special ruggedized design to withstand typical field usage, full IP67 weatherproofing for short term water immersion and fully dust protected
- Low power (4 x AA Batteries) typical 8-12 hour battery life at 200 C
- Tough carrying/storage case
- No radioactive sources required for proper operation





# PRODUCTS



The new RS-125 Spectrometer is the state-of-the-art in portable hand-held radiation survey search devices for the geophysical industry. It offers an integrated design with a large detector, direct Assay readout, data storage, full weather protection, ease of use and highest sensitivity in the market.

## **RS-125 SUPER-SPEC (HANDHELD)**

### **FEATURES**

- Large 2.0 x 2.0 NaI crystal, 6.3 in<sup>3</sup> (103 cm<sup>3</sup>)
- High sensitivity (60% greater than current models available)
- Single button operation
- SURVEY mode gives Search capability with numeric display and audio
- ASSAY mode gives direct results in %K and ppm U and Th
- SCAN mode permits profiling with data scan to memory with GPS integration
- Fast AUDIO response, making source location easier and eyes free
- 5-digit LCD display with max 65000cps with no scaling
- Bluetooth and USB data connections
- External GPS integrated into data stream via GPS
- USB earphone audio support for noisy area surveying
- Lightweight 4.4 lb (2 kg) including batteries
- Rubberized case for easy grip even in wet conditions
- Rugged carrying handle
- Special ruggedized design to withstand typical field usage, full IP67 weatherproofing for short term water immersion and fully dust protected
- Low power (4 x AA Batteries) typical 8-12 hour battery life at 200
- Tough carrying/storage case
- No radioactive sources required for proper operation





# PRODUCTS



The new RS-230 Spectrometer is the state-of-the-art in portable hand-held radiation survey search devices for the geophysical industry. It offers an integrated design with a large detector, direct Assay readout, data storage, full weather protection, ease of use and highest sensitivity in the market. The use of a BGO give very significant increase in performance over the normal NaI detector (typically 3x)

## **RS-230 BGO SUPER-SPEC (HANDHELD)**

### **FEATURES**

- Large 2.0 x 2.0 BGO crystal, 6.3 in<sup>3</sup> (103 cm<sup>3</sup>)
- High sensitivity (performance similar to a 3x3" 21 cu ins NaI detector)
- Single button operation
- SURVEY mode gives search capability with numeric display and audio
- ASSAY mode gives direct results in %K and ppm U and Th
- SCAN mode permits profiling with data scan to memory with GPS integration
- Fast AUDIO response, making source location easier and eyes free
- 5-digit LCD display with max 65000cps with no scaling
- Bluetooth and USB data connections
- External GPS integrated into data stream via GPS
- USB earphone audio support for noisy area surveying
- Lightweight 4.4 lb (2 kg) including batteries
- Rubberized case for easy grip even in wet conditions
- Rugged carrying handle
- Special ruggedized design to withstand typical field usage, full IP67 weatherproofing for short term water immersion and fully dust protected
- Low power (4 x AA Batteries) typical 8-12 hour battery life at 200 C
- Tough carrying/storage case





# PRODUCTS

## RS-220 SUPER-IDENT HANDHELD GAMMA-RAY SPECTROMETER



The RS-220 Spectrometer is state-of-the-art in portable hand-held radiation search and identification devices for the health physics, nuclear, industrial and security industries. The RS-220 allows the user to locate and identify radioactive sources in their facility. Since it uses no radioactive sources, system operation is much simpler than with older technology systems. Simply switch the unit "ON", wait 2-3 minutes and it is ready to go or keep it continuously on charge for instant "GO". The spectrometer is auto-stabilized on the local naturally occurring (K, U, & Th) background radioactivity and does not require any test sources.

### FEATURES

- High sensitivity with large 2.0 x 2.0 NaI crystal 103 cm<sup>3</sup> (6.3 in<sup>3</sup>)
- Integrated GM tube for extended dose rate range (optional)
- RS-Analyst software to manage data
- Lightweight & rugged 4.6 lb (2.2 kg) including batteries
- Easy to use, single button operation
- Search, and nuclide ID modes of operation
- Nuclide ID displays results in isotope form
- Auto-stabilized on naturally occurring radio elements - no user actions required
- 5-digit LCD display with high count rate (65,535 cps) capability
- Scrolling histogram graph display of the last 100 readings
- Fast audio output with adjustable audio threshold set point
- Bluetooth earphone audio for searching in noisy areas
- Special rugged design to withstand typical field usage, full IP66 weatherproofing with protection against streaming water and fully dust protected
- GPS data can be directly integrated (via BT) if mapping is required
- 4 x AA batteries, typical 8-12 hour battery life at 200 C
- No radioactive sources required for system operation

