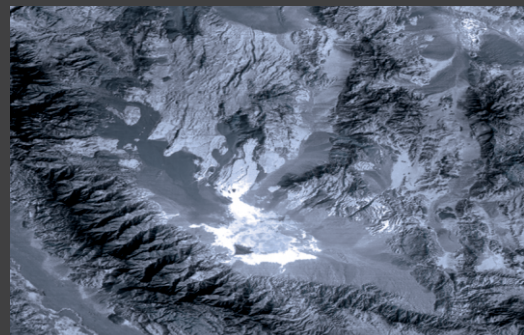
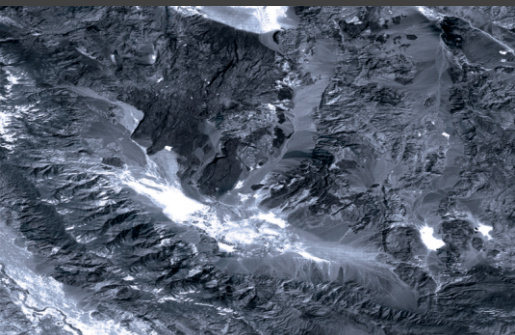




Innovator In Spectroscopy Equipment

SPECTROMETER MODEL SPECT2113





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SPECTROMETER MODEL SPECT2113

Features:

- Large NaI (Sodium Iodide) detector, 103 cm³ (6.3 in³)
- Extreme sensitivity (with unique Full Spectra Analysis 2x greater than NaI crystal of the same volume)
- Light Weight 4.5 lb (2.04 kg) including batteries
- Display:
 - Full color touch LCD display
 - Easily view log files with no need to connect to a computer
- Assay mode readout in K<%1, ppm of U & Th (Online Spectra)
- Auto-stabilizing on naturally occurring radio elements
- Internal GPS integrated
- Special rugged design to withstand typical field usage, waterproof against streaming water and fully dust protected
- Low power (31Wh Li-on) typical 5 hour battery life at 20°C with external battery pack 10h
- No radioactive sources required for proper operation



Description:

The SPECT2113 Spectrometer is the state-of-the art portable hand-held radiation survey meter devices for using in the geophysical industry. It offers an integrated design with a large detector, direct Assay data, data storage, full weather protection, ease of use and highest sensitivity in the market segment.

The spectrometer is auto-stabilizing on the naturally occurring (K, U, & Th) radioactivity and does not require any test sources. With this convenient, handheld instrument offers the equivalent performance of much larger, and more costly, portable units. For example, a 120 second measurement with the SPECT2113 handheld provides comparable quality as the same measurement using 2x (in³) NaI portable detector.

Survey and Scan Modes: Total Count Readout is 1x/sec rate in the Survey Mode or can be adjusted (1 - 20 sec.) in the Scan Mode. When used with a GPS receiver, data can be stored and profiles are produced which is ideal for both area surveying and drilled core.

Assay Mode: The assay mode provides the concentrations of K, U and Th as shown in the display below. The user can select the desired sampling time.

CFP - Analysis Software: The SPECT2113 is provided with utility software to download the data that is stored in memory. All data in the memory can be handled via USB to the SPECT - Analysis program on a PC in the form of 4096 channel spectra, data or Scan data +GPS. The program also gives graphical and numerical views of the data. The data can also be re-exported as a text file for further processing.

Specifications:

- Display:
 - Large Full color Graphic LCD (800 x 480) pixels, 4.3 inch
- Energy Response: 20 keV 3000 keV
- Internal Sampling: 20 /second





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- Batteries:
 - Internal battery pack module (4cell Li-ion)
 - Rechargeable Life: 5 + hours at 20°C
- Performance:
 - Operating Temperature: -10°C to +40°C
 - Storage Temperature: -20°C to +50°C
 - Rechargeable battery kit
 - Control: 4 button, thumb activated
 - Internal Memory: Huge 40GB SSD
 - Data Output: CSV, TXT, MCA, KML, XLS, LOG
- Alarm:
 - Audio via miniature speaker
 - Variable audio threshold set point
 - Audio Alarm proportional to the count rate
- Readout:
 - Search Mode: Counts in CPS from 0 to 500k and Hist 32bit x 4096
 - Assay mode: Display in %K, ppm of U & Th (ROIs according to IAEA)
- Data Input /Output : (Using supplied CFP-Analysis software)
 - USB
 - Internal GPS
- Memory:
 - SSD 40GB
 - Storage unlimited Total Count, Scan, Assay, plus full spectrum in 32bit x 4096



Electrical and Mechanical Power Required:

- **Typical Power Requirements:**
 - Standard version +19V (2A) DC adaptor
- **Physical:**
 - Size: Dimensions & package style 45 X 35 X 20 cm (L X H X W)
 - Weight: Without batteries 1.8 kg, with batteries 2.1 kg, Shipping 5 kg.

Software

- Auto Calibration
- Auto Stabilizing with natural source
- Progress bar for elapsed time
- Configuration menu
- Date and time menu
- Cs 137 stabilizing

Standard Accessories

- SPECT2113 NaI Crystal
- Standard Car kit
- SPECT - Analysis utility software
- USB cable
- User guide DVD
- Delivered in hard case with foam insert





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