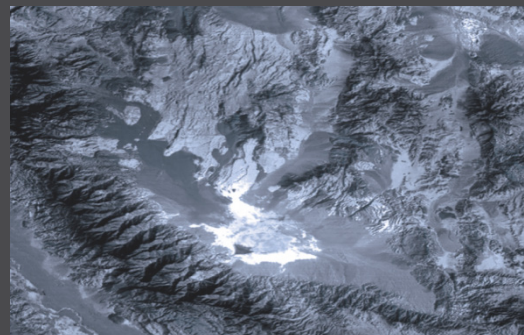
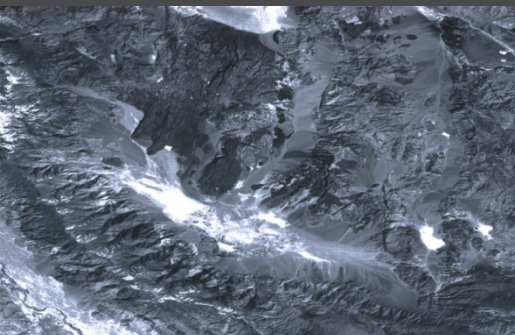




Innovator In Spectroscopy Equipment

SPECTROMETER MODEL SPECT2113





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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
- Fast audio output with adjustable audio threshold set point
 - BT (Bluetooth) earphone audio support for noisy area surveying (Optional)
- Internal GPS integrated
- Special rugged design to withstand typical field usage, waterproof against streaming water and fully dust protected
- Low power (31 Wh 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. In addition, it has Bluetooth (BT) connectivity providing for wireless connection to a Bluetooth equipped external earphone or computer.

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, Bluetooth (BT) and Wi-Fi, Internal GPS
 - GPS link via BT
- 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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