

ARIA

Advanced Radiation Isotope Analyzer



The **ARIA**, with a full-featured MCA program, can be used with practically any radiation detector and can extract any data your detector can supply! It has been designed taking into account comments and requests from our current customers.

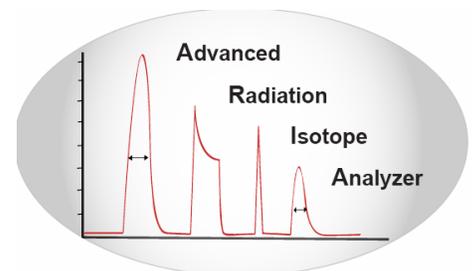
The all-new fully, quantitative Windows™ based software package has been designed for ease of use in a 32-bit Windows™ environment. Software also includes software to run the **ARIA** using a Windows Mobile™ Device (Jornada, iPAQ, TDS Recon, etc.) running WindowsCE™ or Windows Mobile™. The Software can be installed on as many computers as you like, with no restrictions and includes free software updates.

Software Includes

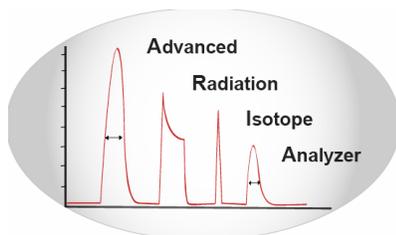
- Fully editable standard libraries include all 497 isotopes listed in "Kocher's Radioactive Decay Tables."
- Multi-channel scaling mode, peak search and identify, quantification based on ROIs or peaks search.
- Dual-channel emulator allows use with gas proportional or phoswich detectors as a "gross alpha/beta" counter-scaler.
- Sophisticated multiple alarm functions are based on the overall count rate, individual ROIs, exceeding a specific rate or an increase in rate over a specific time interval. Alarms can trigger external devices.
- Provisions are included for acquiring and saving spectra repeatedly and continuously while unattended. Spectra can be saved and reloaded to "live" for re-analysis or additional data accumulation, or loaded as a background spectrum. Saved spectra can be superimposed on the "active" spectrum for comparison. Spectrum format is easily accessible by a spreadsheet program. All reports can be previewed, printed, or saved as text or rich text files.
- "ASCII" mode allows control of and data collection from the **ARIA** with user's own software or hardware.

Specific applications include:

- Bulk sample analysis
- thyroid assay
- nuclear medicine
- health physics
- Education
- wipe sample analysis
- remote monitoring
- air sample analysis
- compliance monitoring
- Identification of unknown nuclides
- homeland defense
- environmental monitoring
- portal monitoring



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Additional Specifications

4096-channels, can also be configured for 256, 512, 1024, or 2048 channels. Internal bias voltage supply provides positive high voltage from 0 to 2000V at up to 0.5mA (negative High Voltage available upon request). Adjustable shaping time, 0.25 to 10 μ s. Wide gain range by utilizing coarse and fine gain controls, achieve gain from x1 to x250

Minimum System Requirements - 486 computer running Windows 95® or higher. Connec Detector Connector

Two detector inputs. One standard series "C" connector for detectors where the signal is joined with the high voltage supply. The other is for detectors having separate connections for high voltage (SHV connector) and signal (BNC connector). Active detector input is selected via software, and can be negative, positive, or pre-shaped (positive) signal.

External Connector - External connector provides +5V, +12V, and -12V for external preamplifiers and two logic signals for notifying external devices of alarm conditions.

Probe Connectors - Two detector inputs. One standard series "C" connector for detectors where the signal is joined with the high voltage supply. The other is for detectors having separate connections for high voltage (SHV connector) and signal (BNC connector). Active detector input is selected via software, and can be negative, positive, or pre-shaped (positive) signal.

Switches - Power On/Off, and Fast/Normal charging rates. (Internal switch located in the battery compartment suppresses battery-charging circuitry for when non-rechargeable batteries are being used.) On/Off, External power availability, and fast charge activation

Power Requirements - External 12VDC power supply, six "AA" NiMH rechargeable batteries (included) with recharging internally, or six standard alkaline "AA" batteries. External 12VDC power jack allows instrument to plug into vehicle. "Fast Charge" of NiMH batteries can also be selected. The URSA-II is fully portable with four hours of battery life and PPC Compatibility

Weight - 391 grams (13.8 oz.) without batteries.

Size - 157 x 90 x 44 mm (6.186 x 3.558 x 1.718 in.)



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