

# URSA II *Universal Radiation Spectrum Analyzer*

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The URSA II MCA with full-featured MCA software, can be used with practically any radiation detector and can extract any data your detector can supply! The fully, quantitative Windows™ based URSA-II software package is designed for ease of use in a 32-bit Windows™ environment. Software also includes URSA-II for PPC software to run the URSA-II using a Windows Mobile™ Device 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.
- Spectra can be saved and reloaded to "live" for re-analysis or additional data accumulation, or loaded as a background spectrum. Spectrum format is easily accessible by a spreadsheet program.
- "ASCII" mode allows control of and data collection from the URSA-II with user's own software or hardware.
- 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  $\mu$ s.

## Minimum System Requirements

486 computer running Windows 95® or higher.

## 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. The URSA-II is fully portable with four hours of battery life and

Windows Mobile® Compatibility

## Weight

391 grams (13.8 oz.) without batteries.

## Size

175 x 90 x 44 mm (6.186 x 3.558 x 1.718 in.)

## 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.



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