

# AccuSync

The SpectroWipe™ Wipe Test Counter is a compact radiation measurement device for determining levels of contamination in Nuclear Medicine laboratories and other environments where radioisotopes are used.

It includes a 1024-channel Multi-Channel Analyzer for precision peak detection and isotope identification by gamma spectroscopy.

Counting data, spectra, and activity data are displayed on a large, bright LCD display with adjustable contrast. With a maximum count rate of 200,000cps and a high efficiency NaI detector, the SpectroWipe performs wipe tests in a minimal amount of time. The easy-to-read display and menu-driven user interface make wipe test counting easy and efficient, streamlining quality control and safety procedures, while reducing paperwork and manual record keeping.

The spectrum is displayed while it is being acquired, along with the count rate, total counts, and time remaining. Background is automatically subtracted. When the counting is complete, the detected peaks are displayed, the identified nuclides are listed, and the calculated activities are displayed for each. The total activity is also displayed, automatically converted to the desired units (DPM,  $\mu\text{Ci}$ , or Bq), and exceeded trigger levels are indicated.

Wipe test, background, and calibration data are archived, and reports can be printed on a serial or parallel printer, or the data can be exported via RS-232 to a computer, in spreadsheet format, and then printed from the computer.

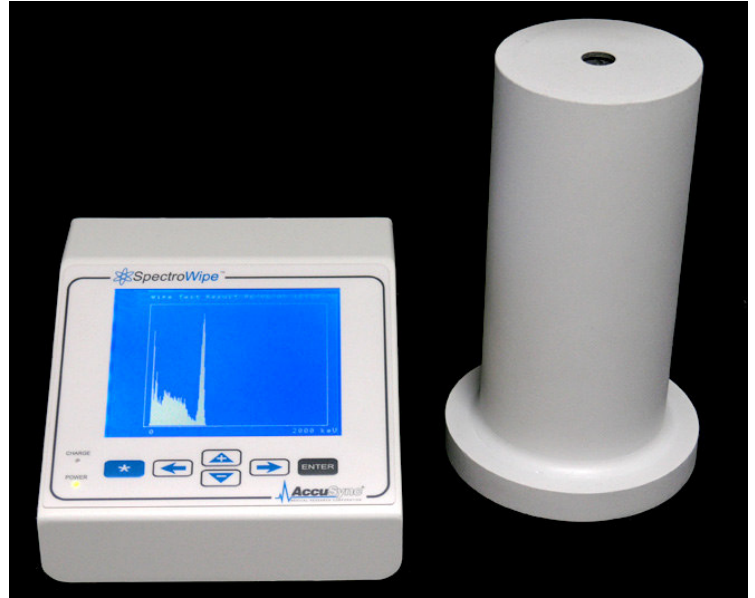
Settings are stored by location, including trigger level, energy range, nuclides, LLD, and ULD. Up to 20 numbered and named locations can be stored. The system contains a database of radionuclides which stores the half-life, peaks, ROI, and efficiency for each. Data is saved in 128kB flash memory. Available reports include monthly, weekly, and daily activity by location.

Tested to EN61010-1 and equivalent UL/CSA standards for CAN/USA certification by TUV Rheinland, and tested to EMC standard EN61326 for CE compliance.

AccuSync Medical Research Corporation is an ISO9001 and ISO13485 registered designer and manufacturer of medical devices and related instruments in nuclear medicine.

# SpectroWipe™

## Wipe Test Counting System with 1024-channel MCA



### Features

- Meets NRC regulations
- NaI drilled-well crystal detector with built-in preamplifier
- 1024-channel MCA
- Precision high voltage
- Variable amplifier for energy range
- Automatic background subtraction
- Precision peak detection
- Nuclide library stores up to 50 nuclides
- Up to 20 locations
- Data storage and archiving
- Prints reports, spectra, data
- RS-232 port for data input/output
- Large, bright LCD display
- Easy to use, menu-driven interface
- CAN/US certification by TUV Rheinland

### Options

- Dual Detector Interface
- Rechargeable battery
- Isotope identification
- Laser printing capability

[www.jgravengaard.com](http://www.jgravengaard.com) 2005-08-29

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Medical Imaging Sales & Service

**Detector:**

Drilled-Well Crystal: NaI scintillator shielded by 0.75" lead.  
 Crystal dimensions: 1.75"dia. x 2". Drilled well: .656"dia. x 1.75".  
 Preamplifier: The detector has a built-in, charge sensitive preamplifier with positive output. The required power is  $\pm 5V @ 2 mA$ .

**Multi-Channel Analyzer:**

Linear Amplifier: The variable gain amplifier covers the energy range from 400keV to 2000keV in 400keV steps.  
 Max Count Rate: 200,000 CPS  
 Pulse Pair Resolution: 1 $\mu s$   
 LLD: The low level discriminator can be set to any level up to 100% of the selected range in 10 keV steps.  
 ULD: The upper level discriminator can be set to any level up to 100% of the selected range in 10 keV steps.  
 Number of Channels: 1024  
 Calibration: Automatic; standard source required.  
 Peak Detection: Automatic; with optional automatic nuclide identification of 50 nuclides.  
 Conversion Time: 5 $\mu s$

**High Voltage:**

500-1000V, electronically stabilized. Output Current: 500uA  
 Temp stability: 50ppm Ripple: <25mV peak-to-peak

**Display:**

Menu-driven graphic display.  
 320x240 Monochrome LCD with backlight.

**Keypad:**

6 membrane switches.

**Input/Output:**

Preamplifier input in 6 pin miniature connector .  
 Bias Voltage SHV connector.  
 RS-232 ports for printing and exporting data to computer.  
 TTL pulse output.

**Clock:**

Battery backed-up clock/calendar.

**Memory:**

128k EEPROM for data storage. Storage capacity for spectra, location data, wipe test results, nuclide data, calibration and background logs.

**Printer:**

Serial printer port on rear panel. Parallel printer capability with converter.

**Power:**

85-265V~, 47-440Hz, less than 5W

**Battery:**

Optional 9.6V NiMH rechargeable battery with 7 hours approximate running time.

**Dimensions:**

Detector: Diameter 4.00", Height 9.25", Weight 30 lbs.  
 MCA Unit: Width 7.00", Length 7.09", Height 4.25", Weight 3.5 lbs. (4.5 w/ battery)

**SW1000-ID** SpectroWipe Wipe Test System ..... \$4,195.00  
*Includes detector, cables, and manual.*

**OPTIONS:**

**BP1000** Battery power option..... 250.00