Scintillation counters provide a convenient means of assaying a variety of gamma emitting sample such as wipe, test tube or planchets. Systems operate over a wide energy range from less than 20keV to many MeV and produce a gross count of the photon emission from the sample.

The **ST450 Scintillation SCA** provides a convenient interface between a scintillation detector and counter/timer for detecting gamma rays over a defined energy range. Front panel controls allow selection of an energy window so that only gamma-rays within a specific energy range are counted. The unit contains all of the necessary support for connecting a scintillation detector and includes high voltage and built-in preamplifier/amplifier. When used with the SPECTECH **ST360 Radiation Counter**, the system offers computer interfacing capability. This including control, data transfer and automatic ramping of the baseline to produce a full energy spectrum of the emissions. In addition to the ST360 connection, the instrument includes an SCA output for use with other counters and an amplifier output for signal monitoring.

When used with the **ST360 Radiation Counter**, the **STX software** provides connection to either a PC or Macintosh computer allowing control of preset time, preset count and baseline ramping. Data is stored in a spreadsheet compatible file for exporting to Excel or other spreadsheet program. The data may then be graphed to display the energy spectrum of the sample being measured for isotope identification.

Specifications. Built-in preamplifier/amplifier for direct connection to PMT anode signal. Bipolar shaping, 1μsec. peaking time. Gain controls, fine 0.5-1.5, coarse 2-64. Baseline control 0-100%. Window control 1-20%. High Voltage control, 200-1200v positive. 1mA maximum, fully regulated. Integral and differential modes. External Scan mode when used with ST360 Radiation Counter and **STX software**. Power requirement, 16v a/c from line transformer supplied. (Specify 110 or 220VAC at time of ordering.)
Order Information. ST450 Scintillation SCA. Includes ST450 and power supply only. ST450-PC. Complete system including ST450, ST360, STX software for PC, SD38 scintillation detector and stand, all necessary cables, RSS4 set of four gamma sources and power supply. ST450-MAC. Complete system including ST450, ST360, STX software for PC and MAC, SP38 scintillation detector and stand, all necessary cables, RSS4 set of four gamma sources and power supply. Specify 110 or 220VAC operation at time of ordering.

ORDER: ST450 Scintillation Processor