

ST450 Scintillation Processor/SCA

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



PACIFIC-TEC SCIENTIFIC PTE LTD

33 Ubi Avenue 3, #06-48 Vertex, SINGAPORE 408868

Tel: (65) 6342 1530 Fax: (65) 6342 1531

Email: sales@pacific-tec.sg Website: www.pacific-tec.sg

Co. Registration No.: 200704040Z