

## SQ-3802 Split Beam UV/Vis Spectrophotometers



SQ-3802 is a split beam, scanning design. It is a stand-alone model with 1.8nm fixed bandwidth and has all the features that SpectroQuest line offers in a stand-alone unit. The second detector is simultaneously monitoring the system stability to optimize measurement accuracy. It provides excellent performance for measurements in the range of 190nm to 1100nm. It has a large angled LCD screen with contrast adjustment. The large sample compartment (100 mm) accommodates a wide range of cell holders and accessories including peristaltic sipper and peltier system. Optional PC download software and PC Windows® application software make this a versatile instrument.

### SQ-3802

<b>Wavelength Range</b>	190 - 1100 nm
<b>Slit Width</b>	1.8 nm
<b>Optical System</b>	Split Beam, Grating System 1200 lines/mm
<b>Wavelength Accuracy</b>	± 0.3 nm
<b>Wavelength Resolution</b>	± 0.1 nm
<b>Wavelength Repeatability</b>	± 0.2 nm
<b>Photometric Range</b>	0% T to 200% T -0.3 to 3 A 0 to 9999 Conc
<b>Photometric Accuracy</b>	± 0.3% T
<b>Photometric Repeatability</b>	Better than 0.2% T
<b>Stray Light</b>	Less than 0.10% T
<b>Baseline Flatness</b>	± 0.002 A
<b>Stability</b>	0.001 A/h @ 500 nm
<b>Scanning Speed</b>	High, Medium, Low Maximum 1000 nm/minute
<b>Light Source</b>	Halogen, Deuterium (pre-aligned)
<b>Display</b>	Graphic LCD (320 x 240) dots
<b>Keyboard Control</b>	29 Membrane keypad
<b>Data Output</b>	USB and RS232C, Parallel printer port
<b>Sample Compartment</b>	Accommodates 100mm pathlength cuvet with optional holder
<b>Printer</b>	Mini parallel printer optional
<b>Power Requirements</b>	110-120V/60Hz Switchable 220V-240V/50Hz
<b>Instrument Dimensions</b>	24.5"W x 15.7"D x 11"H 620mm x 400mm x 280mm
<b>Instrument Weight</b>	50 lbs (23 kg)
<b>Warranty</b>	One Year

### Peltier/Sipper System (Cat. No. SQ2800-109P)

Peltier/Sipper system for a single cell flow thru and continuous temperature control from 15° to 40° C. The x-y adjustable mechanism is used to align cell with optical beam for micro flow cell setup. The temperature display resolution is 0.1° C. The unit consists of a Peltier/Sipper controlled with peristaltic pump and a thermoelectrically temperature controlled cell holder with panel. The unit can be used a flow thru only or temperature control only.



SQ2800-109P

Note: requires flow cell and proper tubing to complete flow thru setup.

Item No.	Description
SQ3802	Model SQ3802 Split Beam UV/Vis, 1.8nm, 110V
SQ3802E	Model SQ3802E Split Beam UV/Vis, 1.8nm, 220V
SQ3802-401	Advanced Application Software for PC's

Contact UNICO for additional parts and accessories

**When using a spectrophotometer in the UV range, you must use UV-transparent cuvetts such as UNICO Quartz cuvetts, or UV transparent plastic cuvetts.**

**See page 26 for an extensive selection of UNICO cuvetts.**