

## SQ-2802 Series Single Beam UV/Vis Spectrophotometers

SQ-2802 series is an advanced single beam design consisting of three models: Stand-alone model SQ-2802 with 1.8nm fixed bandpass and model SQ-2802S with variable slits (1nm, 1.8nm, and 4nm); PC model SQ-2802PC with 1.8nm fixed bandpass and can be controlled either by the keypad, or remote controlled from a computer with the included software package.

SQ-2802 has all the features that SpectroQuest line offers in a stand-alone unit. The PC models come standard with Windows® based application software (PC not included) and can perform basic Abs./%T/Conc. tests without a PC. All instruments provide excellent performance and flexibility for your applications. The large sample compartment (100 mm) accommodates a wide range of cell holders and accessories including peristaltic sipper and peltier system.



### SQ-2802 / SQ-2802S

|                                  |  |
|----------------------------------|--|
| <b>Wavelength Range</b>          | 190 - 1100 nm  |
| <b>Slit Width</b>                | 1.8 nm (SQ-2802)<br>1, 1.8, 4 nm (SQ-2802S)              |
| <b>Optical System</b>            | Single 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<br>-0.3 to 3 A<br>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>                 | 0.002 A/h @ 500 nm                                       |
| <b>Scanning Speed</b>            | High, Medium, Low<br>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<br>220V-240V/50Hz               |
| <b>Instrument Dimensions</b>     | 24.5"W x 15.7"D x 11"H<br>620mm x 400mm x 280mm          |
| <b>Instrument Weight</b>         | 48 lbs (22 kg)   |
| <b>Warranty</b>                  | One Year   |

### SQ-2802PC / SQ-2802PCS

|                                  |  |
|----------------------------------|--|
| <b>Wavelength Range</b>          | 190 - 1100 nm  |
| <b>Slit Width</b>                | 1.8 nm (SQ-2802PC)<br>1, 1.8, 4 nm (SQ-2802PCS)          |
| <b>Optical System</b>            | Single 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<br>-0.3 to 3 A<br>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>                 | 0.002 A/h @ 500 nm                                       |
| <b>Scanning Speed</b>            | 600 nm/minute  |
| <b>Light Source</b>              | Halogen, Deuterium (pre-aligned)                         |
| <b>Display</b>                   | 20 x 2 LCD   |
| <b>Keyboard Control</b>          | 8 Key Buttons (inactive when PC connected)               |
| <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>        | 220V-240V/50Hz<br>110-120V/60Hz Switchable               |
| <b>Instrument Dimensions</b>     | 24.5"W x 15.7"D x 11"H<br>620mm x 400mm x 280mm          |
| <b>Instrument Weight</b>         | 53 lbs (24 kg)   |
| <b>Warranty</b>                  | One Year   |

| Item No.   | Description                                       |
|------------|---|
| SQ2802     | Model SQ2802 Scanning UV/Vis, 1.8nm, 110V         |
| SQ2802E    | Model SQ2802E Scanning UV/Vis, 1.8nm, 220V        |
| SQ2802S    | Model SQ2802S Scanning UV/Vis, Variable nm, 110V  |
| S2Q2802SE  | Model SQ2802SE Scanning UV/Vis, Variable nm, 220V |
| SQ2800-405 | SpectroQuest Data Download Software for PC's      |
| SQ2800-401 | Advanced Application Software for PC's            |

Contact UNICO for additional parts and accessories

| Item No.   | Description   |
|------------|---|
| SQ2802PC   | Model SQ2802PC Scanning UV/Vis, 1.8nm, 110V         |
| SQ2802PCE  | Model SQ2802PCE Scanning UV/Vis, 1.8nm, 220V        |
| SQ2802PCS  | Model SQ2802PCS Scanning UV/Vis, Variable nm, 110V  |
| SQ2802PCSE | Model SQ2802PCSE Scanning UV/Vis, Variable nm, 220V |
| SQ2800-405 | SpectroQuest Data Download Software for PC's        |
| SQ2800-401 | Advanced Application Software for PC's              |

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