

SpectroQuest™ Line of UV/Vis Scanning Spectrophotometers

UNICO is proud to introduce the all-new complete SpectroQuest™ line of UV-Visible spectrophotometers. The SpectroQuest line consists of four distinct series to meet the broad requirements of education, industrial and research applications:

- SQ-2800 Series Single Beam 4nm UV/Vis spectrophotometer
- SQ-2802 Series Single Beam 1.8nm or variable slits UV/Vis spectrophotometer
- SQ-3802 Series Split Beam 1.8nm UV/Vis spectrophotometer
- SQ-4802 Series Double Beam 1.8nm UV/Vis spectrophotometer

All SpectroQuest spectrophotometers feature high performance sealed optics mounted on a stable machined platform. The innovative optical layout and state of art monochromator with high-grade blazed holographic grating ensure accuracy. Its integrated design assures long-term stability and durability. The precisely aligned detector and quality deuterium and halogen lamps enhance the precision across the UV/Vis spectrum starting from 190nm and into the near-infrared (NIR) 1100nm. The comprehensive features, sophisticated powerful software, variety of accessories and model configurations will meet or exceed your expectations for performance and value.

Features at a Glance:

- Choice of single beam, split beam or double beam designs
- Fixed or variable slits (bandwidths)
- PC models or Stand-alone models with large LCD display
- Optional built-in printer on SQ2800 models
- Non-volatile memory storage and one-button easy recall
- Sealed keypad with alpha-numeric entry for user file names and settings
- Pre-aligned deuterium lamp for easy lamp replacement. Lamp usage and the status of the lamps may be monitored
- All models with USB and RS-232 ports for communication and software upgrades
- Powerful built-in or PC Windows software including sophisticated utility programs
- Data Download-to-PC software for stand-alone models (optional)
- Software upgrade capability
- Real-time clock for date and time stamping of results
- Performance validation and report (GLP compliance)
- **Full CE compliance**

UNICO continues to use Tungsten-Halogen (Visible) and Deuterium (UV) light sources for the added stability these light sources provide as compared to Xenon sources.

SpectroQuest™ is a registered trademark of United Products and Instruments, Inc., dba UNICO.



SQ-2800



SQ-2802



SQ-3802



SQ-4802



SQ-2800 Single Beam UV/Vis Spectrophotometers

SQ-2800 is the most economic general-purpose design in the SpectroQuest line. It is a stand-alone model with 4nm fixed bandwidth and has all the features that SpectroQuest line offers for a stand-alone unit. It provides excellent performance for measurements in the range of 190nm to 1100nm. It has a large angled LCD screen with contrast adjustment for comfortable viewing in a variety of room conditions. 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 instrument very versatile. SQ2800P Models are available with built-in printers.



SQ-2800 shown with 100 mm sample compartment open

SQ-2800

Wavelength Range	190 - 1100 nm
Slit Width	4 nm
Optical System	Single Beam, Grating System 1200 lines/mm
Wavelength Accuracy	± 0.8 nm
Wavelength Resolution	± 0.1 nm
Wavelength Repeatability	± 0.5 nm
Photometric Range	0% T to 200% T -0.3 to 3 A 0 to 9999 Conc
Photometric Accuracy	± 0.5% T
Photometric Repeatability	Better than 0.3% T
Stray Light	Less than 0.15% T
Baseline Flatness	± 0.004 A
Stability	0.002 A/h @ 500 nm
Scanning Speed	High, Medium, Low Maximum 1000 nm/minute
Light Source	Halogen, Deuterium (pre-aligned)
Display	Graphic LCD (320 x 240) dots
Keyboard Control	29 Membrane keypad
Data Output	USB and RS232C, Parallel printer port
Sample Compartment	Accommodates 100mm pathlength cuvet with optional holder
Printer	Mini parallel printer optional
Power Requirements	110-120V/60Hz Switchable 220V-240V/50Hz
Instrument Dimensions	21.7"W x 16.5"D x 10.6"H 550mm x 420mm x 270mm
Instrument Weight	44 lbs (20 kg)
Warranty	One Year

SQ-2800P

Wavelength Range	190 - 1100 nm
Slit Width	4 nm
Optical System	Single Beam, Grating System 1200 lines/mm
Wavelength Accuracy	± 0.8 nm
Wavelength Resolution	± 0.1 nm
Wavelength Repeatability	± 0.5 nm
Photometric Range	0% T to 200% T -0.3 to 3 A 0 to 9999 Conc
Photometric Accuracy	± 0.5% T
Photometric Repeatability	Better than 0.3% T
Stray Light	Less than 0.15% T
Baseline Flatness	± 0.004 A
Stability	0.002 A/h @ 500 nm
Scanning Speed	High, Medium, Low Maximum 1000 nm/minute
Light Source	Halogen, Deuterium (pre-aligned)
Display	Graphic LCD (320 x 240) dots
Keyboard Control	29 Membrane keypad
Data Output	USB and RS232C, Parallel printer port
Sample Compartment	Accommodates 100mm pathlength cuvet with optional holder
Printer	Built-in
Power Requirements	110-120V/60Hz Switchable 220V-240V/50Hz
Instrument Dimensions	21.7"W x 16.5"D x 10.6"H 550mm x 420mm x 270mm
Instrument Weight	44 lbs (20 kg)
Warranty	One Year

Item No.	Description
SQ2800	Model SQ2800 Scanning UV/Vis, 4nm, 110V
SQ2800E	Model SQ2800E Scanning UV/Vis, 4nm, 220V
SQ2800P	Model SQ2800P with Built-in Printer, 4nm, 110V
S2Q2800PE	Model SQ2800PE with Built-in Printer, 4nm, 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

Did you know that UNICO services spectrophotometers? Contact us for more details.

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

Wavelength Range	190 - 1100 nm
Slit Width	1.8 nm (SQ-2802) 1, 1.8, 4 nm (SQ-2802S)
Optical System	Single Beam, Grating System 1200 lines/mm
Wavelength Accuracy	± 0.3 nm
Wavelength Resolution	± 0.1 nm
Wavelength Repeatability	± 0.2 nm
Photometric Range	0% T to 200% T -0.3 to 3 A 0 to 9999 Conc
Photometric Accuracy	± 0.3% T
Photometric Repeatability	Better than 0.2% T
Stray Light	Less than 0.10% T
Baseline Flatness	± 0.002 A
Stability	0.002 A/h @ 500 nm
Scanning Speed	High, Medium, Low Maximum 1000 nm/minute
Light Source	Halogen, Deuterium (pre-aligned)
Display	Graphic LCD (320 x 240) dots
Keyboard Control	29 Membrane keypad
Data Output	USB and RS232C, Parallel printer port
Sample Compartment	Accommodates 100mm pathlength cuvet with optional holder
Printer	Mini parallel printer optional
Power Requirements	110-120V/60Hz Switchable 220V-240V/50Hz
Instrument Dimensions	24.5"W x 15.7"D x 11"H 620mm x 400mm x 280mm
Instrument Weight	48 lbs (22 kg)
Warranty	One Year

SQ-2802PC / SQ-2802PCS

Wavelength Range	190 - 1100 nm
Slit Width	1.8 nm (SQ-2802PC) 1, 1.8, 4 nm (SQ-2802PCS)
Optical System	Single Beam, Grating System 1200 lines/mm
Wavelength Accuracy	± 0.3 nm
Wavelength Resolution	± 0.1 nm
Wavelength Repeatability	± 0.2 nm
Photometric Range	0% T to 200% T -0.3 to 3 A 0 to 9999 Conc
Photometric Accuracy	± 0.3% T
Photometric Repeatability	Better than 0.2% T
Stray Light	Less than 0.10% T
Baseline Flatness	± 0.002 A
Stability	0.002 A/h @ 500 nm
Scanning Speed	600 nm/minute
Light Source	Halogen, Deuterium (pre-aligned)
Display	20 x 2 LCD
Keyboard Control	8 Key Buttons (inactive when PC connected)
Data Output	USB and RS232C, Parallel printer port
Sample Compartment	Accommodates 100mm pathlength cuvet with optional holder
Printer	Mini parallel printer optional
Power Requirements	220V-240V/50Hz 110-120V/60Hz Switchable
Instrument Dimensions	24.5"W x 15.7"D x 11"H 620mm x 400mm x 280mm
Instrument Weight	53 lbs (24 kg)
Warranty	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

Contact UNICO for additional parts and accessories

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

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

SQ-4802 Double Beam UV/Vis Spectrophotometers

SQ-4802 is a double 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 two detectors are measuring both the test sample cell and reference sample cell simultaneously for optimizing measurement accuracy and stability. It provides excellent performance for measurements in the range of 190nm to 1100nm. It is suitable for pharmaceutical, biochemical and clinical lab applications as well as routine applications such as quantitative analyses, kinetics, spectrum scanning, multiple components and DNA/Protein. Optional PC download software and PC Windows® application software make this instrument versatile.



SQ-4802

Wavelength Range	190 - 1100 nm
Slit Width	1.8 nm
Optical System	Double Beam, Grating System 1200 lines/mm
Wavelength Accuracy	± 0.3 nm
Wavelength Resolution	± 0.1 nm
Wavelength Repeatability	± 0.2 nm
Photometric Range	0% T to 200% T -0.3 to 3 A 0 to 9999 Conc
Photometric Accuracy	± 0.3% T
Photometric Repeatability	Better than 0.2% T
Stray Light	Less than 0.10% T
Baseline Flatness	± 0.002 A
Stability	0.001 A/h @ 500 nm
Scanning Speed	High, Medium, Low Maximum 1000 nm/minute
Light Source	Halogen, Deuterium (pre-aligned)
Display	Graphic LCD (320 x 240) dots
Keyboard Control	29 Membrane keypad
Data Output	USB and RS232C, Parallel printer port
Sample Compartment	Accommodates 100mm pathlength cuvet with optional holder
Printer	Mini parallel printer optional
Power Requirements	110-120V/60Hz Switchable 220V-240V/50Hz
Instrument Dimensions	24.5"W x 15.7"D x 11"H 620mm x 400mm x 280mm
Instrument Weight	53 lbs (24 kg)
Warranty	One Year



SQ-4802 shown with sample compartment open



SQ4802-120 Six-Position Auto Cell Holder

Item No.	Description
SQ4802	Model SQ4802 Double Beam UV/Vis, 1.8nm, 110V
SQ4802E	Model SQ4802E Double Beam UV/Vis, 1.8nm, 220V
SQ4802-401	Advanced Application Software for PC's
SQ4802-120	Six-Position Auto Cell Changer
Contact UNICO for additional parts and accessories	

Powerful Integrated Software for Data Acquisition



1. Basic Mode

Absorbance, %T Transmittance or Concentration measurements.

2. Quantitative

Establish or use stored calibration equation to measure the concentration of unknowns.

3. WL scan

Spectrum scan of sample at any selected wavelength range with choice of scanning speed and wavelength interval. You can also select the scan speed: Low, Medium, or High.

4. Kinetics

Measurement of absorbance changing vs. time with reaction rate calculation function.

5. DNA/Protein

Calculation of concentration and DNA purity. Ratio at other wavelengths can be measured.

6. Multi Wavelength

Measurement at multiple wavelengths to analyze and determine the composition of the mixtures.

7. Utility – GLP

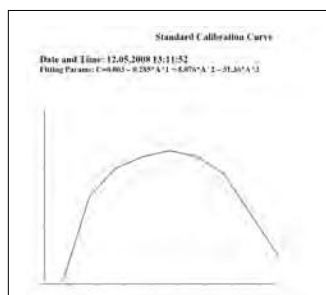
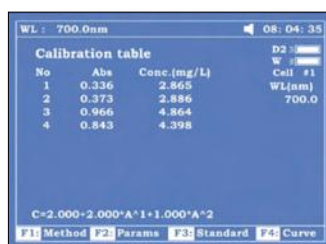
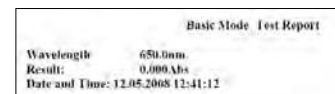
Utility programs offer wavelength and photometric accuracy validation for GLP compliance. It contains useful programs and tools such as re-set dark current, re-set lamp change-over wavelength, lamp usage set, set clock, etc.

8. Defined Test

This is an open platform for use defined programs, multiple test protocols can be stored.

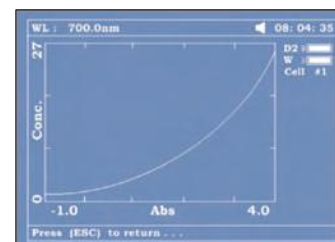
Basic Photometric Mode

Measures Absorbance, %T and Concentration with entry of Concentration Factor or the Concentration of the standard. Units such as ug/mL, mg/mL, g/L, ppb, ppm, %, I.U., mM/L, M/L may be selected or other units may be entered via the keypad. Continuous display of the result means there is no need to press a button to read.



Quantitative

Up to 10 standard solutions may be used to establish calibration equation curve. Choice of four methods for fitting a curve through the calibration points: Linear fit, Linear fit through zero, square fit and cubic fit.

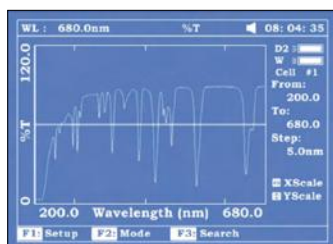


No	Wavelength	Abs	C (mg/L)
1	546.0nm	0.844	8.002
2	610.0	0.188	8.004
3	611.9	0.119	8.002

Fitting Params: $C = 0.001 + 0.200 \cdot A + 0.070 \cdot A^2 + 0.30 \cdot A^3$

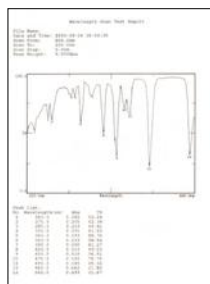
There are three kinds of correction methods:

1. Single wavelength method
2. Iso-absorbance (two wavelength method):
The absorbance at the measurement (peak) wavelength is measured relative to the absorbance at a second (valley) wavelength. This minimizes the effects of cell difference and turbidity
3. Three-point:
The absorbance of the peak itself is measured by subtracting the calculated tangent joining the valleys on each side of the peak



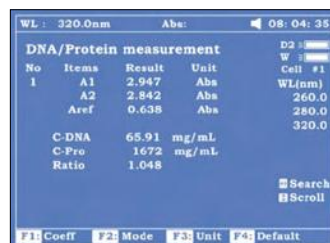
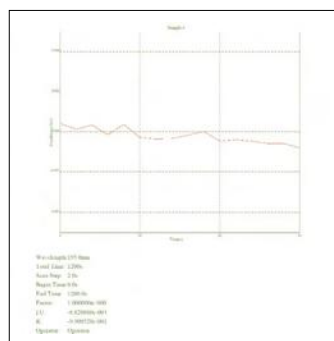
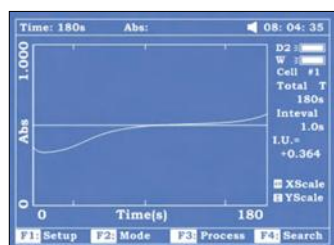
Wavelength Scanning

The wavelength scan intervals are 0.1, 0.2, 0.5, 1, 2, 5nm, and Hi, Medium and Low scan speeds are available. Scan speeds vary from 100 to 1000 nm/min. Wavelengths are scanned from high to low so that the instrument waits at high wavelengths. This minimizes the degradation of UV sensitive samples. Precise control of filter and lamp changes means that their effects are not seen on the final scan. Post-run manipulation includes re-scaling axes, curve tracking and peak picking.



Kinetics

This mode may be used for time course scanning or reaction rate calculations. Abs. vs. time graphs are displayed on the screen in real time. Wait time and measurement time up to 12 hours may be entered with time intervals of 0.5, 1, 2, 5, 10, 30 secs and 1 min. Post-run manipulation includes re-scaling, curve tracking and selection of the part of the curve required for the rate calculation. Rate is calculated using a linear regression algorithm before multiplying by the entered factor.



DNA/Protein

Concentration and DNA purity are calculated:

Absorbance ratios
260nm/280nm or
260nm/230nm

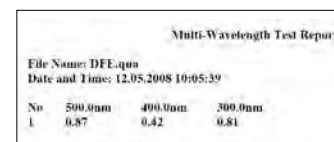
With optional subtracted absorbance at 320nm

DNA Concentration = $62.9 \times A_{260} - 36.0 \times A_{280}$ or $49.1 \times A_{260} - 3.48 \times A_{230}$

Protein Concentration = $1552 \times A_{260} - 757.3 \times A_{280}$ or $183 \times A_{260} - 75.8 \times A_{230}$

Multi-Wavelength

Up to 10 wavelengths may be entered, allowing the measurement of multiple wavelengths on a series of samples.



Performance Validation

for the GLP compliant laboratory SpectroQuest spectrophotometers may be automatically self-calibrated on switch-on, using the 656.1nm deuterium emission line. This function may be repeated at any time.

The wavelength accuracy may be checked using the "WL Validity" program (wavelength calibration standards required).

The absorbance accuracy at several wavelengths may be checked using the "Accu Validity" program.

Each SpectroQuest spectrophotometer includes all of the functionality shown on pages 20 and 21 as a standard feature. See pages 22 and 23 for optional software packages to expand your applications.

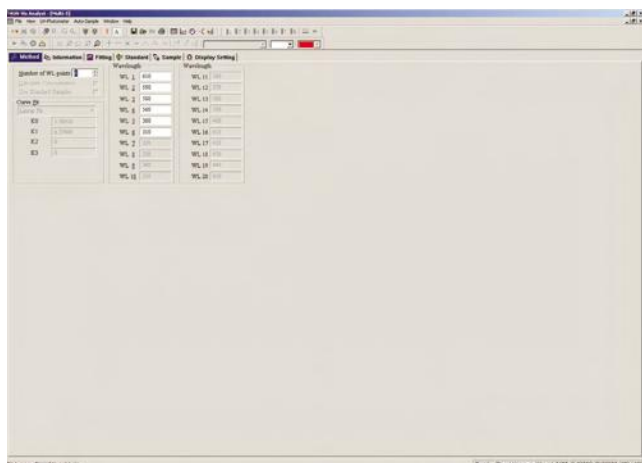
Optional Advanced Windows-Based Application Software

The SpectroQuest Windows®-based PC application software takes the best features of the integrated operating software plus more powerful data processing and expanded data collection and storage capability. It comes standard with SpectroQuest PC models (SQ-2802PC and SQ-2802PCS) and is optional on all other SpectroQuest models.

The PC application software offers:

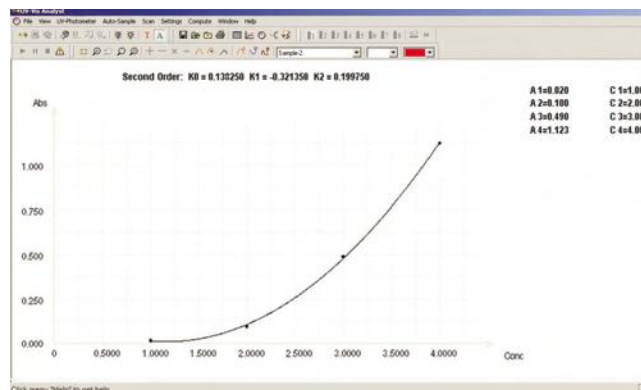
1. Abs/%T/Conc Test
2. Quantitative (standard curve)
3. Kinetics
4. Multi-wavelength Test
5. Wavelength Scanning
6. DNA/Protein

Multi-Wavelength



Up to 32 wavelengths can be selected and multiple samples can be measured. (Auto cell changer is required to run multiple samples automatically).

Quantitative (Standard Curve)

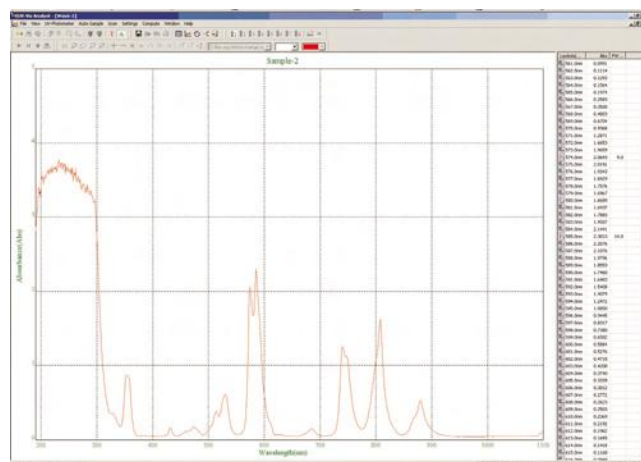


Use up to 32 standards to establish standard curve.

Four methods for fitting a curve:

1. Linear fit
2. Linear through zero
3. Square fit
4. Segmented

Wavelength Scanning



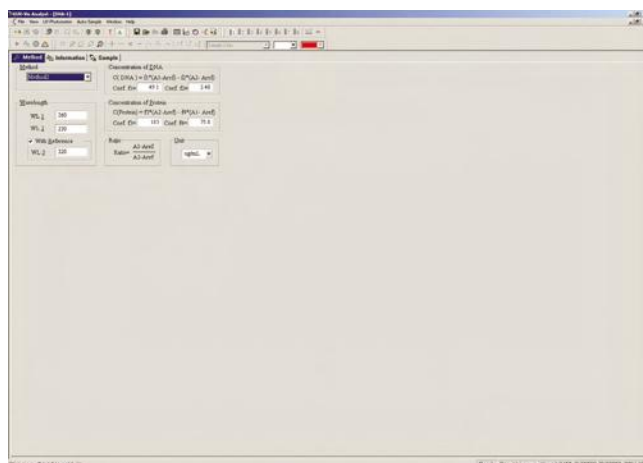
Automatically record peaks and valleys. Eight channels can simultaneously store up to 8 curves. Post-run manipulation and processing includes:

1. Re-scaling axes, curve
2. Smoothing, combination, zooming, overlap...
3. 1st to 4th derivative



The SpectroQuest Windows-based PC application software takes the best features of the integrated operating software plus more powerful data processing and expanded data collection and storage capability. It comes standard with SpectroQuest PC models (SQ-2802PC and SQ-2802PCS) and is optional on all other SpectroQuest models.

DNA/Protein



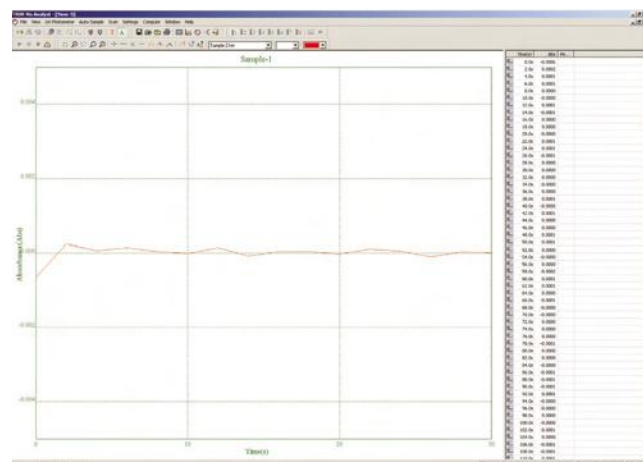
Concentration and DNA purity are quickly and easily calculated: Absorbance ratios 260nm/280nm with optional subtracted absorbance at 320nm.

DNA Concentration = $62.9 \times A_{260} - 36.0 \times A_{280}$

Protein Concentration = $1552 \times A_{260} - 757.3 \times A_{280}$

Other wavelengths and factors may be entered.

Kinetics (Abs vs. Time)



The Kinetics mode may be used for time course scanning or reaction rate calculations. Abs. vs. time graphs is displayed on the screen in real time.

Wait time, measurement time and time intervals may be entered.

Post-run manipulation includes re-scaling, curve tracking and selection of the part of the curve required for the rate calculation. Rate is calculated using a linear regression algorithm before multiplying by the entered factor.

Data Download Software (Cat. No. 2800-405)

The basic data download software is designed to download data stored in the spectrophotometer memory to a PC in a text file format for easy exporting into a spreadsheet.

Item No.	Description
SQ2800-401	Advanced Application Software for PC's (for SQ-2800 series)
SQ2800-405	Basic Data Download Software (for SQ-2800 and SQ-2802 models)
SQ3802-401	Advanced Application Software for PC's (for SQ-3800 series)
SQ4802-401	Advanced Application Software for PC's (for SQ-4800 series)

Se habla español. Visítenos en el Internet:
www.unicosci.com/espanol
o llámenos por teléfono al 609-240-5507.

Optional SpectroQuest Accessories

Test Tube Holder (Cat. No. SQ2800-101P)

Test tube holder kit for 8-20mm diameter test tubes. Includes universal base, V-type tube holder. The maximum tube height is 100mm.



SQ2800-101P

Water-Jacketed Cell Holder (Cat No. SQ2800-105P)

Water-jacketed single 10mm cell holder kit including universal base and one water-jacketed cell holder. It maintains desired temperature by circulating constant-temperature water from water bath (water bath required and not included).



SQ2800-105P

4-Cell 100mm Long Path Cell Holder (Cat. No. SQ2800-102P)

Rectangular long path cell holder kit for 4 cells up to 100mm pathlength.



SQ2800-102P



SQ2800-106P

Micro Cell Holder (Cat No. SQ2800-106P)

Measure a sample with volume of 100uL using micro cell holder. The x-y adjustable mechanism is used to align cell with optical beam for optimized results.

4-Cell 50mm Long Path Cell Holder (Cat No. SQ2800-102-50)

Rectangular long path cell holder for 4 cells up to 50mm pathlength.



SQ2800-102P-50

Peltier Unit (Cat No. SQ2800-107P)

Peltier unit for continuous temperature control from 15° to 40° C. The x-y adjustable mechanism is used to align cell with optical beam for micro cell setup. The temperature display resolution is 0.1° C. The unit consists of a controller and a thermoelectrically controlled cell holder and SQ panel.



SQ2800-107P

Cylindrical Cell Holder (Cat No. SQ2800-104P)

Cylindrical cell holder kit for single cell up to 100mm pathlength (20mm dia.). Includes universal base and one holder.



SQ2800-104P

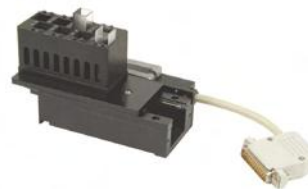


SQ2800-108P

Ambient Sipper Unit (Cat No. SQ2800-108P)

Sipper system for single cell flow thru. The x-y adjustable mechanism is used to align cell with optical beam for micro cell flow cell setup. The sipper unit consists of a flow-thru controller with peristaltic pump and flow-thru front panel (flow cell and tubing not included).

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



SQ2800-121

8-Position Auto Cell Changer (Cat. No. SQ2800-121)

Eight-position automatic cell changer designed for SQ-2800/2802/3802 series spectrophotometers.

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 controller 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.

6-position Auto Cell Changer (Cat. No. SQ4802-120)

Six-position automatic rotating cell changer designed for SQ-4802 series spectrophotometer.



SQ4802-120

Reflectance Measurement Attachment (5° incident angle) (Cat. No. SQ2800-122)

The technique of reflectance measurement is used for evaluation of materials relative to a reflectance surface. The minimum sample is (L) 30 x (W) 30 mm.



SQ2800-122

We inventory an extensive line of additional parts and accessories not shown here. If you do not see what you want or need, please contact us for more information.