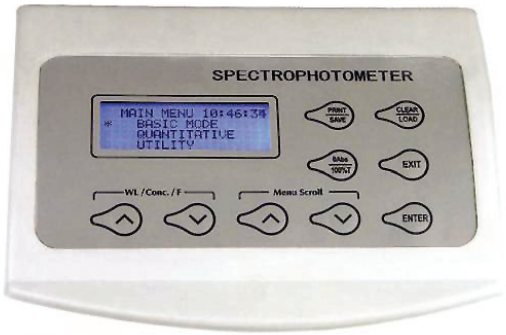
UV-Vis Spectrophotometer with software & printer, Series 2100UV+

- This new series offers software-based wavelength scanning and models with built-in printers.
- This new spectrometer are programmable, affordable, and simple to use; while providing excellent results.
- The large 4-line LCD display can be read from any angle.
- The touch buttons make commanding easy and data entry quick and convenient.
- The menu is task driven and makes using your 2100UV+ friendly.
- A large on-board memory is capable of storing up to 200 test methods (standard curves) and saving up to 500 test data.
- Each unit comes standard with both USB and RS-232 data ports for communication.
- Two optional features make documentation and reporting a snap; optional software for PC's which includes scanning capability, and units with built-in printers.
- The USB port can be used for both data transfer and software upgrades.
- Periodically we make system upgrades, and you will be able to update the functionality of your S2100+ at no charge via the
- USB port whenever upgrades are available.
- The optional Windows® XP based software expands the capabilities of the instrument including Standard Curves, Kinetics, Abs. & %T, DNA/ Protein ratio and wavelength scanning.
- Data can be easily exported to Excel® for further processing, analysis and storage.
- Comes standard with an operation manual, dust cover, a set of four 10mm square optical glass cuvettes.
- CE Approved.



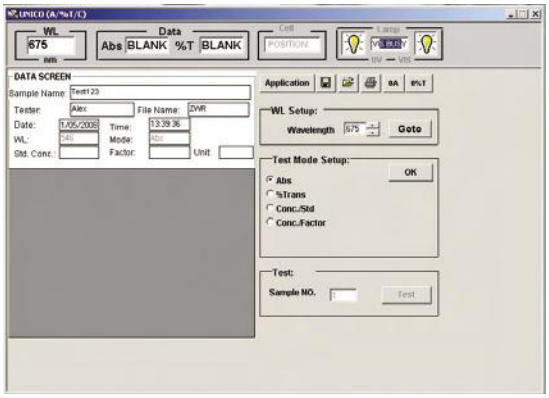
UV-Vis Spectrophotometer	
Model	ST-S2100UV+P
Wavelength Range	200-1000nm visible wavelengtrh
Slit Width	4nm
Optical System	Single beam, grating system, 1200 lines/ mm
Wavelength Accuracy	± 2nm
Wavelength Repeatability	± 1nm
Wavelength Resolution (Display)	1nm
Photometric Accuracy	± 0.004 A at 0.5A
Photometric Range	0-125%T, -0.3-2.5A, -9999-9999
Photometric Repeatability	± 0.003 A at 0.5A
Stray Light	Less than or equal to 0.3%T at 220 & 340nm
Stability	± 0.002 A/ hr at 500nm after 1 hr. warm-up
Baseline flatness	± 0.010 A with PC software
Display	LCD (4 line x 20 characters)
Control buttons	9 buttons, keypad
Printer	Built-in thermal printer
Communication Ports	USB & RS-232
Cuvettes Capacity	Up to 100mm pathlength (with longpath cell holder, optional)
Cell Holder	Single or 4 cell, manual
Abs / %T Mode	Display: Abs and %T
Quantitative Mode	Standard curve: 1st through zero, 1st, Factor
Memory Capacity	Up to 200 standard curves
Utility	Dark current, D2 on/ off, system self calibration
Power Requirement	100/ 200V switchable, 150W
Dimension (W x D x H) mm	420 x 340 x 180
Weight	10kg

Spectrophotometer Application Software (ST-S2100P-401)

- This software is designed for Windows® 2000, ME, or XP operating systems. Install the Windows based software and start collecting your data.
- The Application Software expands your applications, assists in your data documentation and provides complete control of the sppectrophotometer from a computer, rather than the instrument panel.

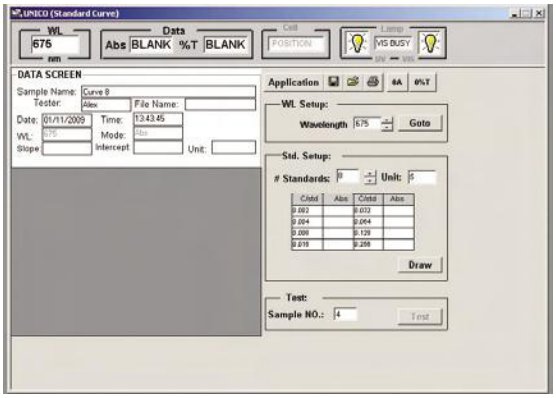
- Applications include:
  1. Abs./ %T/ cONC.
  2. Standard Curve (Quantitative)
  3. Kinetics (Abs. vs. Time)
  4. Scanning
  5. DNA/ Protein Ratio (UV Range only)

Abs. / %T/ Conc



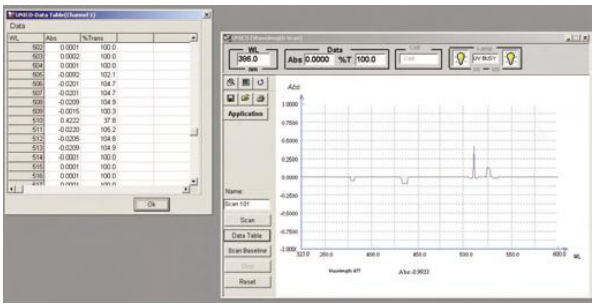
- Measure absorbance, transmittance or concentration with standard or known factor.

Quantitative (Standard Curve)

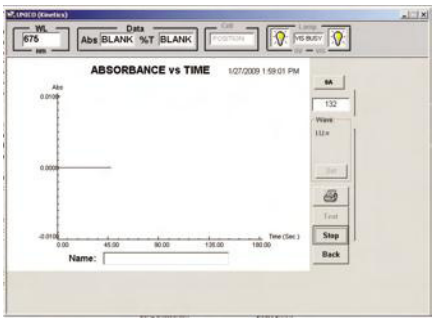


- Use up to 8 standards to establish standard curve. Features four methods for fitting a curve.
  1. Linear fit
  2. Square fit through zero
  3. Square fit
  4. Segmented

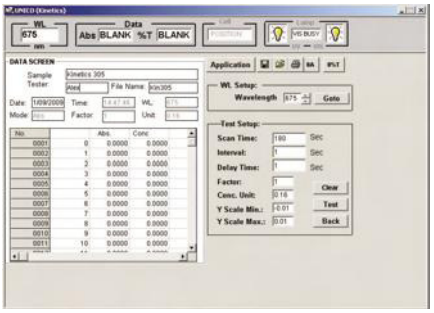
Wavelength Scanning Software



- 1. Full or partial wavelength scans; set the range required by applications.
  2. Automatically record peaks and valleys
  3. Re-scaling axes, curves



- 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 and sabed.



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

DNA/ Protein

- Concentration and DNA purity are calculated:
  Absorbance ratios 260nm/ 280nm with optional subtracted absorbance at 320nm.
  DNA Concentration = 62.9 x A260 - 36.0 x A280
  Protein Concentration = 1552 x A260 - 757.3 x A280
  Additional wavelengths and factors may be programmed and saved.