



# Spectro UV-2650 UV-VIS Scanning Spectrophotometer

**Model UV-2650**



Spectro UV-2650 is a new single beam scanning UV-VIS Spectrophotometer; with its seamless integration with any PC, which makes managing data exceptionally easy. This spectrophotometer delivers enhanced ease-of-use, precision and accuracy resulting in time and cost savings, as well as unprecedented confidence in test results. Model UV-2650 works in the ultraviolet and visible range of 190-1100 nm and has a fixed bandwidth of 2 nm.

Model UV-2650 spectrophotometer offers high performance and reliability, which can be used in various applications. Spectrophotometer Model UV-2650 can be used extensively for qualitative and quantitative analysis in such fields as clinical analysis, medical laboratories, DNA/RNA testing, petro-chemistry laboratories, chemistry and biochemistry laboratories, educational labs, research laboratories, analytical laboratories, as well as in quality control departments, environmental control, water management, food processing, and agriculture, particularly because Spectro UV-2650 has the ability to use 100mm cells with its cell holder.

Spectro UV-2650 has excellent baseline stability and high resolution.

## Features

- Wide wavelength range, satisfying requirement of various fields.
- Spectral bandwidth 2 nm.
- Manual 4-cell holder accommodates long path length cells up to 100mm.
- Optimized optics and electronics design, light source and detectors from the world famous manufacturer ensure high performance and reliability.
- Rich measurement methods: wavelength scan, time scan, multi-wavelength determination, multi-order derivative determination, double wavelength method and triple wavelength method etc., meet different measurement requirements.
- Data output can be obtained via a printer port and a RS-232 interface or USB interface
- Parameters and data can be saved for user's convenience.
- PC controlled measurement can be achieved for more accurate and flexible requirement.

## Accessories

4 square optical cells 10mm.  
2 square quartz cells 10 mm with lid  
Dust cover  
Instruction manual  
Spectro Software Win98/2000/XP Compatible

Software Operation Manual  
Power cable  
PC cable  
USB cable



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## Software Specifications

Such operations as photometry measurement, spectrum measurement, quantitation measurement and kinetic measurement are offered in UV-Win Windows applications.

Multi-wavelengths photometric measurement at up to 10 wavelengths with the arithmetic calculation according to the user-entered formula.

Up to 10 spectra and time-course curves can be measured and recalled in memory with data-handling of arithmetic calculation, logarithmic calculation, reciprocal calculation, smooth, derivate (1st ~ 4th), Abs to/from %T conversion and peak pick.

Up to 24 standards can be entered and measured for the fit of calibration curve with order to 1st ~ 4th. Offered are the quantitation methods of single wavelength, two-wavelength, coefficient two-wavelength, three wavelength and 1st ~ 4th derivatives.

Kinetic measurement can monitor the changes of absorbance and transmittance against time course at 10 different wavelengths. This module allows flexibility in manipulation and data display.

With the Windows clipboard, the measured data and graphics can be copied to other applications software for reports. Also offered are filing functions, display functions, and others (such as auto file and repeat measure/scan etc.).

## Technical Specifications

Wavelength Range:	190 to 1100 nm.	Stability:	<0.002A/h(at 500nm; after warming up)
Spectral Bandwidth:	2 nm	Noise:	+0.001A(at 500nm; after warming up)
Wavelength Accuracy:	±0.5 nm	Detector:	Silicon Photo-diode
Wavelength Reproducibility:	≤0.2nm	Display:	6 inches high light blue LCD
Photometric Accuracy	+0.5%T (0-100%T) +0.002A (0-0.5A) +0.004A (0.5A-1A)	Flatness:	0.005A
Photometric Reproducibility:	0.2%T	Minimum Sampling Interval:	0.1nm
Working Mode:	T,A(-0.3-3A), C,E	Energy Range:	0.000-9.999
Stray Light:	<0.1%T(NaI,220nm;NaNO <sub>2</sub> ,340nm)	Power:	AC:220V/50Hz, 110V/60Hz,140W (Automatic)
Baseline Flatness:	+0.002A	Dimensions:	530x410x210mm
Scanning Speed:	1000nm/min	Weight:	18kg
		Port:	USB