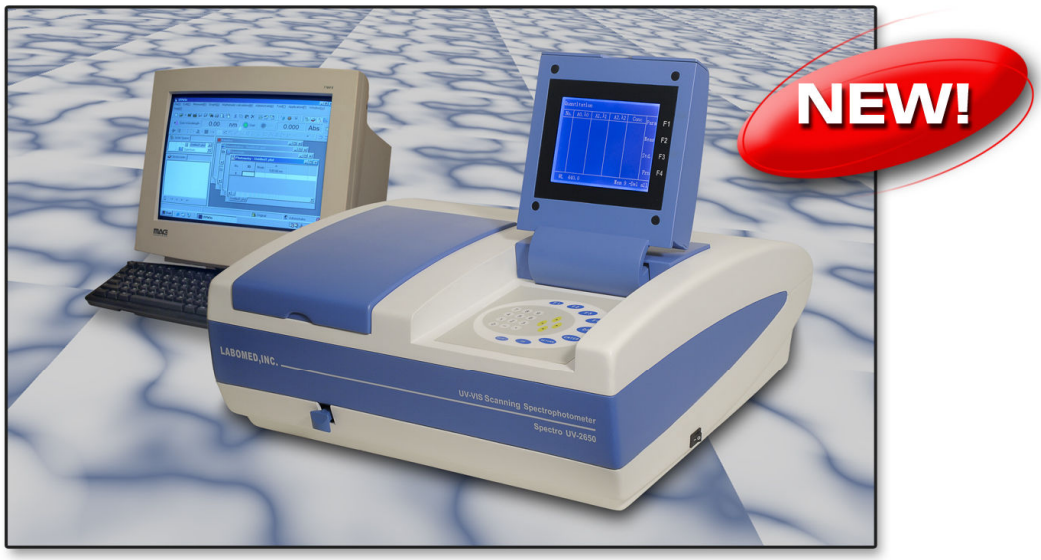
Spectro UV-2650
UV-VIS Scanning Spectrophotometer

Model UV-2650



The UV-2650 is an all-purpose UV-VIS spectrophotometer with scan function. It is widely used in medicine, environmental monitoring, commodity inspection, food inspection, agricultural chemistry, teaching in colleges and universities, metallurgy, geology, machine manufacturing, and petrochemical industries, and is a helpful tool for analysts to carry out qualitative and quantitative analysis of materials.

Features

- *Fully automated operations: automatic change-over between W lamp and D2*
- *lamp; automatic filter changing; automatic wavelength calibration; W lamp and*
- *D2 lamp On/Off auto-control; automatic zero and 100%T adjustment.*
- *Automatic peak-picking; easy operations for replacing W lamp and D2 lamp.*
- *Friendly interface; abundant operation prompts; convenient and fast operations.*
- *Blue LCD display module with 320×240 large screen.*
- *Economical embedded single-chip micro-processor control system.*
- *Rich and powerful functions:*
  - *I.Five basic measurement modes: WL Scan (A, T, E), Photometric measurement (Fixed WL measurement, A, T), Quantitation (Concentration Measurement, A, C), Time Scan (Kinetics Measurement, A, T), Real Time Measurement (A, T, C, E);*
  - *II. Powerful spectrum processing functions: Spectrum Save, Spectrum Load, Peak-Valley Pick, Derivative Spectrum, Data Printing at Intervals, Activity Calculation, Cursor locating, Spectrum Zooming, A-T Conversion, Spectrum Printing;*
  - *III. Data Processing functions: data save, data looking up, data deleting and data printing, etc.;*
  - *IV. Cell error can be corrected;*
  - *V. Parameters can be saved for a long time after turning off the instrument;*
  - *VI. Spectrum and data can be stored when sudden power failure occurs;*
  - *VII.Spectrum and data can be sent to computer via RS-232 interface.*

Accesories

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
OPTIONAL: Peltier Kinetic Test System
OPTIONAL: Sipper Flow Through System

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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-wavelenghts photometric measurement at up to 10 wavelenghts 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-wavelenght, 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.	Photometric reproducibility:	0.2%T
Range of transmittance (%T):	0%T~200%T	Baseline flatness	±0.002A
Range of absorbance (Abs):	-0.301A~3.000A	Drift	≤0.002A/h (at 500nm; after preheated)
Spectral bandwidth:	2nm	Power	AC:220V/50Hz, 110V/60Hz,140W (Automatic)
Minimum sampling interval:	0.1nm	Dimensions	530x410x210mm
Energy range:	0.000V ~ 9.999V	Weight	18Kg
Wavelength accuracy:	±0.5nm		
Wavelength reproducibility:	0.2nm		
Stray light:	≤0.1% T (Nal , at 220nm)		
Photometric accuracy:	±0.5%T (0%T ~ 100%T)		
	±0.002A?0~0.5A		
	+0.004A?0.5A~1A		

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