Spectro UV-VIS Double Beam PC Scanning Spectrophotometer

Model UVD-2960

NEW!

Spectro UV-Vis Double PC (Model UVD-2960) is a high performance UV-Vis double beam automatic scanning spectrophotometer. It is a two (2) cell spectrophotometer with a variable bandwidth of 0.5, 1.0, 2.0 and 5.0 nm. Model UVD-2960 spectrophotometer offers high performance, ease of use and reliability, which can be used in various applications. Spectrophotometer Model UVD-2960 can be used extensively for qualitative and quantitative analysis in such fields as pharmaceutical inspection, clinical analysis, petro-chemistry laboratories, chemistry and biochemistry laboratories, DNA/RNA analysis as well as in quality control departments, i.e. environmental control, water management, food processing, and agriculture. Spectro UV-Vis Double PC utilizes a new optical system design and is microcomputer controlled. With its focused-beam design, the system provides optimal and reproducible results for small samples. The sample beam and the reference beam are provided within the same sampling space which in turn facilitates wider and longer scan of data providing a more detailed view of the results in an easy to use environment. This instrument has excellent baseline stability and high resolution and permits scanning, quantitative analysis, kinetic spectrophotometric analysis and DNA/RNA analysis through PC control. This product is capable of processing data, from analytical and spectrum testing.

Spectro UV-Vis Double PC (Model UVD-2960) has a large LCD screen which displays the menu screen and of course makes the device user-friendly. Additionally, this instrument has a powerful built-in software which permits the apparatus to be linked to a computer and a printer to display the photometric and spectral data on the PC monitor.

Spectro UV-Vis Double PC with variable bandwidth of 0.5, 1.0, 2.0 and 5.0nm. is a high-performance, reliable, and exceptional value instrument which is the hallmark of Labomed UV-Vis spectrophotometers.

Labomed, Inc. is certified by ISO-9001-2000, has CE Conformity and is FDA Licensed.

Features

- **Baseline Stability: The Double beam monitoring ratio system enhances baseline stability.**
- **Excellent Resolution: The big-caliber light path enhances the instrument's energy, reduces its noise and raises its resolution performance**
- **2 Cell Holder: Spectro UVD-2960 has 2 cell holder for reference (standard) and sample.**
- **User-friendly light source: The socket deuterium lamps and tungsten lamps facilitate light source replacement, simplify maintenance and reduce operation error.**
- **Convenient Display: The large backlit LCD screen displays both photometric values and spectral curves.**
- **Full use of Computer Technology: Being computer controlled with RS-232 interface and working on the Windows platform with the UV/Win application software.**
- **The key components adopt all from the world famous manufacturer, such as deuterium lamp, silicon photodiode and holographic grating, which ensures the stabilization and credibility of the Instrument for extended life.**
- **Computer System is optional (NOT INCLUDED).**

Accessories

2 Fixed Cell Holder (one reference and one sample)
4 Optical Glass Cells 10mm
2 Quartz Cells 10mm
1 Dust cover
1 Instruction manual
1 Power cable
1 PC cable
1 Software CD for Windows 98/2000/XP
1 Software Operation Manual
1 Spare Tungsten Halogen Lamp
1 Block Light Cell
1 Extra fuse
Optional: Peltier Kinetic Test System
Optional: Sipper Flow Through System

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Software Specifications

Monoprocessor Built-in Application:
Photometric Measurement: Measuring transmittance or absorbance at the current wavelength together with K factor calculations.
Spectrum Scan: Carrying out scanning of transmittance or absorbance on the selected wavelength range together with peak-pick module.
Quantitative Determination: Regression of standard curves and direct determination concentration of samples.

PC Windows Application Software (RS-232 Interface) to link Spectro to computer and printer:
Photometric Measurement: Measuring the photometric values at 1-10 wavelengths together with mathematical calculations according to entered quotations.
Spectrum Scan: Producing Wavelength scans within the operating parameters on samples together with powerful data handling facilities.
Quantitative Determination: Determination of unknown concentration with methods of 1-3 wavelength quantitation, together with fitting of calibration curve of 1st ~ 4th order.
Kinetics: Recording curves of changing photometric values of samples against timecourse at the selected wavelengths together with powerful data handling facilities.
Output: With the Windows clipboard, the measured data and graphics can be copied to other applications software for reports.

Technical Specifications

Wavelength Range:	190 nm – 1100 nm	Baseline Stability:	0.002Abs/h (500 nm, after preheating).
Spectral Bandwidth:	0.5, 1.0, 2.0 and 5.0 nm	Slew Rate of Wavelength:	3600nm/min
Resolution:	0.5nm	DNA/RNA Measurement:	Results Printout: Printing of measured data
Straylight:	0.2%T (220 nm and 340 nm)		by using any Printer with Parallel Port
Wavelength Accuracy:	0.5 nm (with automatic wavelength correction).		connection available.
Wavelength Reproducibility:	0.2 nm	Mainframe:	Compact and standalone spectrophotometer
Photometric System:	The double-beam monitoring ratio system.		mainframe
Photometric Method:	Transmittance, absorbance, energy, concentration	Light Source:	Socket Deuterium Lamp and Socket
Photometric Range:	-0.3~3.0 Abs (0~200%tT)		Tungsten Halogen Lamp
Photometric Accuracy:	0.002Abs (0~0.5Abs) , 0.004Abs (0.5~1.0Abs),	Detector:	Double Beam
	±0.3%T (0-100%T)	Sample Chamber:	2 cell holder
Photometric Reproducibility:	0.001Abs (0~0.5 Abs), 0.002Abs (0.5~1.0Abs),	Display:	Liquid Crystal Display (LCD 320/240
	0.15%T (0~100%T),		dot matrix)
Photometric Display:	-9999 ---- 9999	Keypad:	Touch soft keys.
Photometric Noise:	<±0.001Abs (500nm, 0Abs, 2nm Bandwidth)	PC Interface:	PC Interface: RS-232
Scanning Speed:	1400nm/min	Size:	22x16x10"
Baseline Flatness:	0.002Abs (190 nm. ~1100 nm.)	Weight:	55 Lb

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