Spectro UV-VIS Double PC 8 Auto Cell Scanning Spectrophotometer

Model UVD-3200

Spectro UV-VIS Double PC 8 Auto is a high performance UV-Vis double beam automatic scanning spectrophotometer. Spectro UVD-3200 has a variable bandwidth of 0.5, 1.0, 2.0 and 5.0 nm. This spectrophotometer offers high performance, ease of use and reliability, which can be used in various applications. Spectro UVD-3200 can be used extensively for qualitative and quantitative analysis in such fields as pharmaceutical inspection, clinical analysis, petrochemistry laboratory, 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 8 Auto Cell 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, facilitating 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, protein, nucleic acid, DNA/RNA analysis, micro and macro measurements through PC control. This product is capable of processing data, from analytical and spectrum testing.

Spectro UV-VIS Double PC 8 Auto Cell (Models UVD-3200) hhas a large LCD screen which displays the menu screen and makes the device easier to use. Additionally, this instrument permits the apparatus to be linked to a computer and a printer to display the photometric and spectral data on the PC monitor, using the new UVWin 6.0 UV-VIS application software, offering a wide range of uses and applications.

OUR NEW SOFTWARE UV-WIN 6.0 WITH 3D SPECTRA Now all Labomed, Inc. split and double beam spectrophotometers with our newly developed software called UV-Win 6.0 can be used with Windows XP, Windows 7 and Windows 8. It is capable of testing more applications with its RS-232 and USB connections, and supports the data export of measured results to the PC and then, if required, a USB flash drive, when additional data storage is required. One of the new features is that it provides 3-D graphing of the spectral results.

Labomed, Inc. is certified by ISO-9001-2008, 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*
- ***Automatic successive measurement:*** *The automatic eight-cell sample holder offers the automatic measurement of eight samples in succession. So it can bring about one-touch measurement of the solution of six samples and a blank.*
- ***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 USB and RS-232 interface and working on the Windows platform with the UV/Win 6.0 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

8 Auto Cell Holder and one fixed Cell Holder
8 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 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:	0.0008Abs/h (1/2 hr warmup, 1nm bandwidth, at 500 nm)
Spectral Bandwidth:	2.0nm (UVD-3000)	Slew Rate of Wavelength:	3600nm/min
		DNA/RNA Measurement:	Results Printout: Printing of measured data
Resolution:	0.5nm		by using any Printer with Parallel Port
Straylight:	>2.10Abs (200nm)		connection available.
Wavelength Accuracy:	±0.3 nm (with automatic wavelength correction)	Mainframe:	Compact and standalone spectrophotometer
Wavelength Reproducibility:	±0.2 nm		mainframe
Photometric System:	Double beam optical system	Light Source:	Socket Deuterium Lamp and Socket
Photometric Method:	Transmittance, absorbance, energy, concentration		Tungsten Halogen Lamp
Photometric Range:	-0.3~3.0 Abs (0~200%T)	Detector:	Double Beam
Photometric Accuracy:	± 0.002Abs (0 ~ 0.5Abs), 0.004Abs (0.5 ~ 1.0Abs), ± 0.3% T (0 ~ 100% T)	Sample Chamber:	Automatic eight-cell sample
Photometric Reproducibility:	0.001Abs (0~0.5 Abs), 0.002Abs (0.5~1.0Abs),	Display	Liquid Crystal Display (LCD 320 - 240
	T (0 ~ 100% T) 0.15%		dot matrix)
Photometric Display:	-9999 ---- 9999	Keypad:	Touch soft keys.
Photometric Noise:	± 0.001Abs at 120 seconds (500 nm, 1 nm bandwidth, 0Abs)	PC Interface:	PC Interface: RS-232
Scanning Speed:	1400nm/min	Size:	22" x 16" x 10"
Baseline Flatness:	±0.0015Abs (200 nm. ~1100 nm)	Weight:	55 Lb

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