



# LABOMED INC.

Manufacturer of Scientific Instruments

# UVD-3500

## **Spectro UV-Vis Double PC 8 Auto and 1 fixed Cell (Model UVD-3200)**

is a high performance UV-Vis double beam automatic scanning spectrophotometer. It is an automatic eight (8) cell spectrophotometer for precise testing with a variable bandwidth of 0.5, 1.0, 2.0, and 5.0 nm. This model offers high performance, ease of use and reliability, which can be used in various applications. Spectrophotometer Model 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** has 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.



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## FEATURES

- o **Baseline Stability:** The Double Beam monitoring ratio system enhances baseline stability.
- o **Excellent Resolution:** The big-caliber light path enhances the instrument's energy, reduces its noise and raises its resolution performance
- o **Automatic successive measurement:** The automatic eight-cell sample holder offers the automatic measurement of eight samples in succession. So it can mnbring about one-touch measurement of the solution of six samples and a blank.
- o **User-friendly light source:** The light source performs an automatic interchange, selectable within the working range of the light source. The socket deuterium lamps and tungsten lamps facilitate light source replacement, simplify maintenance and reduce operation error.
- o **Convenient Display:** The large backlit LCD screen displays both photo metric values and spectral curves.
- o **Full use of Computer Technology:** Being computer controlled with compatible with Windows XP, & and 8, using the new UVWin 6.0 UV-VIS application software, presents to the fullest of the fascination of modern computer technology.
- o **The key components** are all adopted from the world famous manufacturer, such as deuterium lamp, silicon photodiode and holographic grating, which ensures the stabilization and credibility of the Instrument for extend



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## TECHNICAL SPECIFICATIONS

1) Wavelength Range:	190 nm - 1100 nm
- Spectral Bandwidth:	0.5, 1.0, 2.0 and 5.0 nm. (4 steps)
- Resolution:	0.1 nm.
- Stray Light:	<0.12%T (220nm NAL, 340nm NaNO <sub>2</sub> )
- Wavelength Accuracy:	±0.3nm (with automatic wavelength correction)
- Wavelength Display:	0.1 nm resolution
- Wavelength Reproducibility:	±0.2 nm
2) Photometric System:	Double beam optical system
- Photometric Method:	Transmittance, absorbance, energy and concentration
- Photometric Range:	-0.3~3.0 Abs
- Photometric Accuracy:	±0.002Abs (0~0.5A) ±0.3%T (0~100%T) ±0.004Abs (0.5~1.0A) ±0.3%T (0~100%T) ±0.3%T (0~100%T)
- Photometric Reproducibility:	±0.001Abs (0~0.5A) ±0.002Abs (0.5~1.0A) ±0.15%T (0~100%T)
- Photometric Display:	-9999 ---- 9999
- Photometric Noise:	±0.001Abs / 120 seconds (at 500nm, 1nm Spectral Bandwidth 0 Abs)
- Scanning Speed:	1400nm/min
- Baseline Flatness:	±0.0015 Abs (200-1100nm)
- Resolution:	0.5nm (UVD-3200)
- Baseline Stability:	0.0008Abs/h (1/2 hour warming up, 1nm Bandwidth, 500nm)
- Slew Rate of Wavelength:	3600nm/min
4) Mainframe:	Compact and standalone spectrophotometer mainframe