



# LABOMED INC.

Manufacturer of Scientific Instruments

# UVD-3000

## **Spectro UV-Vis Double PC 8 Auto Cell**

is a high performance UV-Vis double beam automatic scanning spectrophotometer, with a brand new optical system that is microcomputer controlled. It is capable of processing data, from analytical and spectrum testing. Precise with high accuracy of measurement and stability are also provided by the powerful built in UVWin 6.0 software, compatible with Windows XP, 7 and 8, and large LCD screen, which can display the screen menu and other functions. It can also be linked to a computer and a printer to show Photometric and Spectral data in the PC monitor.



**Spectro UV-Vis Double PC 8 Auto Cell** can perform automatic photometry scanning of the spectrums being measured, adding the possibility of quantitative analysis and kinetic spectrophotometric analysis, protein, nucleic acid, DNA/RNA analysis, micro and macro measurements through PC control. Both sample and reference beams are provided with the same sampling space, facilitating wider and longer scan of data with a more detailed view of the results in an easy to use environment.

**Spectro UV-Vis Double PC 8 Auto Cell** can be used extensively for qualitative and quantitative analysis in such fields as Pharmaceutical inspection, clinical analysis, chemistry and biochemistry labs, as well as in quality control departments, environmental control, water management, food processing, Petrochemistry, agriculture and DNA/RNA measurement.

*This Spectrophotometer can be used by itself or linked to a PC and comes with a USB interface to connect to the computer. Spectro UV-VIS Double PC 8 Auto Cell with fixed bandwidth of 1 nm. (Model UVD-3000)*



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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:	2.0 nm (Model UVD-3000 ) and 0.5, 1.0, 2.0 and 5.0 nm.(Model UVD-3200)
- Resolution:	2nm. (UVD-3000) and 0.5nm. (UVD-3200)
- Stray Light:	>2.10Abs (200nm)
- 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) ±0.004Abs (0.5~1.0A) ±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 (at 500nm, 1nm Spectral Bandwidth 0 Abs)
- Scanning Speed:	1400nm/min
- Baseline Flatness:	±0.0015 Abs (200-1100nm)
- Baseline Stability:	0.0008Abs/h (1/2 hour warming up, 1nm Bandwidth, 500nm)
- Slew Rate of Wavelength:	3600nm/min