



# Spectro UV-VIS Double Beam PC Scanning Spectrophotometer

**Model UVD-2950**



Spectro UV-Vis Double PC (Model UVD-2950) is a high performance UV-Vis double beam automatic scanning spectrophotometer. It is a two (2) cell spectrophotometer with a fixed bandwidth of 1.0 nm. Model UVD-2950 spectrophotometer offers high performance, ease of use and reliability, which can be used in various applications. Spectrophotometer Model UVD-2950 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 (Model UVD-2950) 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 a 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-2950) 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 (Model UVD-2950) with fixed bandwidth of 1 nm is a **high-performance, reliable, and exceptional value instrument** which is the hallmark of Labomed UV-Vis spectrophotometers.

**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.
- **2 Cell Holder:** Spectro UVD-2950 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 and USB interface and working on the Windows platform with the new 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

- |  |                                       |                                       |
|--|---------------------------------------|---------------------------------------|
| 2 Fixed Cell Holder (one reference and one sample) | 1 Power cable                         | 1 Block Light Cell                    |
| 8 Optical Glass Cells 10mm.                        | 1 PC cable                            | 1 Extra fuse                          |
| 2 Quartz Cells 10mm.                               | 1 Software CD for Windows XP, 7 and 8 | Optional: Peltier Kinetic Test System |
| 1 Dust cover                                       | 1 Software Operation Manual           | Optional: Sipper Flow Through System  |
| 1 Instruction manual                               |                                       |                                       |



# Spectro UV-VIS Double Beam PC Scanning Spectrophotometer

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### Software Specifications

Spectro UV-Vis Double PC (Model UVD-2950) is a UV-Vis performance beam automatic scanning spectrophotometer double height. This is a (2) two-cell spectrophotometer, now with a new and improved bandwidth 1 nm! . Model UVD-2950 spectrophotometer offers high performance, ease of use and reliability, which can be used in various applications. Model UVD-2950 spectrophotometer can be used extensively for qualitative and quantitative analysis in such fields as pharmaceutical inspection, clinical analysis, petrochemical laboratories, laboratories of chemistry and biochemistry, DNA / RNA as well as in quality control departments ie environmental control, water management, food processing and agriculture.

Spectro UV-Vis Double PC (Model UVD-2950) uses a new optical system design and is microcomputer controlled. With its focused beam, the system provides optimal and reproducible results for small samples. The sample beam and the reference beam are provided on the same sample space, facilitating wider and longer exploration of the data that provide a more detailed view of the results in a user friendly environment. This instrument has excellent initial stability and high resolution and allows exploration, quantitative analysis, kinetic spectrophotometric analysis, protein, nucleic acid, DNA / RNA, micro and macro through the PC control measurements. This product is able to process the data, spectrum analysis and testing.

Spectro UV-Vis Double PC (Model UVD-2950) features a large LCD screen that displays the menu screen and, of course, makes the device user friendly. This team also has a powerful integrated software allows the device to be connected to a computer and a printer to show Photometric and Spectral data in the computer screen. Labomed, Inc. is certified by ISO-9001-2008, has CE Conformity and is FDA Licensed. Spectro UV-Vis Double PC (Model UVD-2950) with fixed bandwidth of 1 nm is a high performance tool for value, reliability and exceptional that is the hallmark of UV-Vis spectrophotometers.

This Spectro can be used alone or linked to a PC and comes with a USB interface to connect to the computer.

### Technical Specifications

Wavelength:	190 nm - 1100 nm	Reference:	0.0008Abs / h (2 hours of heating, the bandwidth of 2 nm, 500 nm)
Spectral bandwidth:	1nm	Homicide rate wavelength stability:	3600nm/min
Resolution:	1nm	DNA / RNA measurement:	Print Results: The print data
Straylight:	> 2.10Abs (200nm)		Measured with any printer
Wavelength accuracy:	± 0.3 nm (with automatic wavelength)		Available parallel port connection.
Wavelength Clone:	± 0.2 nm	Central America:	Compact and standalone spectrophotometer
Photovoltaic system:	Double-beam optical system		mainframe
Optical Optical method:	Transmittance, absorbance, energy, and focus	Light Source:	Socket Deuterium Lamp and Socket Tungsten
Range:	-0.3 ~ 3.0 Abs		Halogen Lamp
Photometric Accuracy:	± 0.002Abs (0 ~ 0.5), 0.004Abs ± (0.5 ~ 1.0A)	Detector:	Double Beam
	± 0.3% T (0 ~ 100% T)	Showroom:	2 cell holder
Photometric Reproducibility:	± 0.001Abs (0 ~ 0.5A), 0.002Abs ± (0.5 ~ 1.0A)	Screen	Liquid crystal display
	± 0.15% T (0 ~ 100% T)		(320-240 LCD dot matrix)
Photometric display:	-9999 ---- 9999	Keyboard:	Touch soft keys
Photometric Noise:	± 0.001Abs (at 500nm, 2nm spectral bandwidth 0 Abs)	PC interface:	PC Interface: RS-232, USB
Scanning speed:	1400nm/min	Size:	22 "x 16" x 10 "
Flatness Base:	± 0.002Abs	Weight:	55 Lb