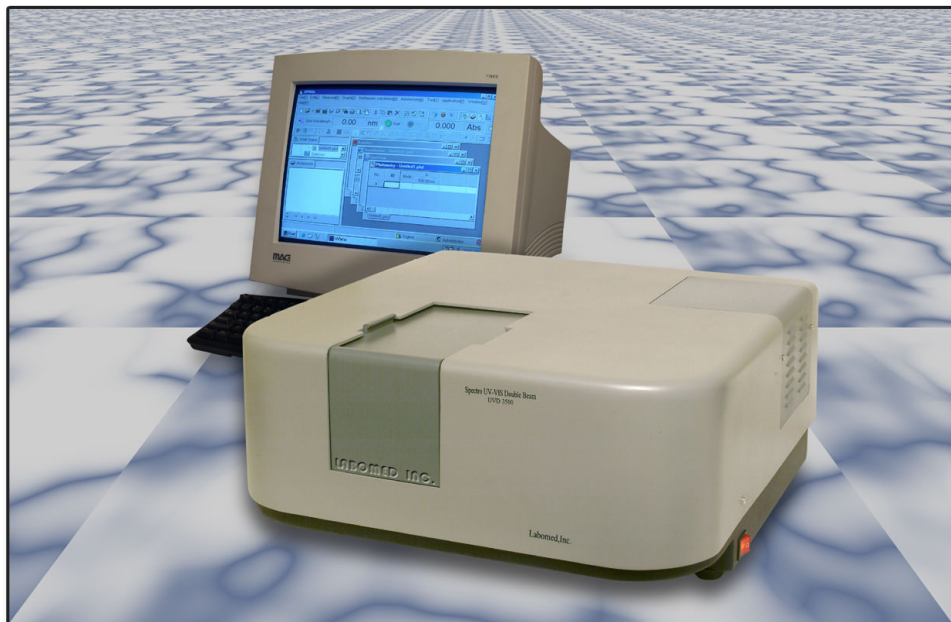




# Spectro UV-Vis Double Beam Research Spectrophotometer

**Model UVD-3500**



Spectro UV-VIS Double Beam UVD 3500 Research Spectrophotometer is a superior instrument for the research laboratory and is an **advanced and affordable system** that generates accurate and reproducible measurements. UVD-3500 spectrophotometer is **accurate, reliable, and an exceptional value**. With its narrow beam design, the system provides optimal and reproducible results for micro and macro samples with high resolution.

Spectro UV-VIS Double Beam UVD 3500 has a **powerful built in software** which permits this instrument to be linked to a computer and a printer to display the photometric and spectral data on the PC monitor. Spectro UV-VIS Double Beam UVD 3500's enhanced transmission and full reflection makes this double beam spectrophotometer highly effective and reduces noise.

Spectro UV-VIS Double Beam UVD 3500's **advantage is its accurate wavelength**, ease of operation, versatile software application, and effortless optional accessory installation. This instrument can be used for analyzing solid samples through use of an optional reflectance accessory and integrating sphere. This Spectro can be used for chemistry and **biochemistry labs, as well as in quality control departments, environmental control, water management, food processing, Petrochemistry, agriculture and DNA/RND measurement**. The CT-type monochromator reduces stray light and widens the photometric range.

Spectro UV-Vis Double Beam (Model UVD-3500) has variable bandwidth of 0.1, 0.2, 0.5, 1.0, 2.0 and 5.0 nm. The variable bandwidth allows this instrument to scan samples with excellent resolution.

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

## Features

- **Excellent Performance** : The high- performance blazed holographic grating and the optimized CT-type monochromator reduce stray light, and widen the photometric range.
- **Ideal baseline stability**: Double-beam dynamic feedback ratio recording photometric system coupled with reasonably designed electric control system ensures high stability of the instrument baseline.
- **High resolution**: The unique optic design of full-transmission and full-reflection satisfies both needs of the double beam optic and the enhancement of the light energy of instrument so as to reduce noise and guarantees high resolution.
- **Accurate wavelength**: The automatic wavelength driving system and the automatic light source interchanging system ensures wavelength accuracy and high holistic performance of instrument.
- **Easy accessories replacement**: the detachable structure of the sample chamber facilitates change of a wide range of optional accessories and ensures wavelength accuracy of instrument.
- **Easy light replacement**: The open-type design of light source chamber, socket deuterium lamp and socket tungsten halogen lamp facilitates light source over replacement, simplify maintenance and reduces operation error.
- **Versatile Application**: The application software on Windows platform offers rich operation and data processing facilities, representing to the full the fascination of modern computer technology.
- **Computer System is optional (NOT INCLUDED)**.
- **Spectro UVD-3500 can carry reflectance accessory by Integrating Sphere and Angle Changer.**

## Accessories

2 Fixed Cell Holder  
4 Optical Glass Cells 10mm.  
2 Quartz Cells 10mm.  
Computer link cable.  
Computer Software - Win98/  
Windows™ 98/2000/XP compatible

Dust cover.  
Instruction manual.  
Software Instructions  
Power cable.  
*Optional: Sipper Flow through System (Not Included)*  
*Optional: Kinetic Test Peltier System (Not Included)*



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## Software Specifications

Spectro UV-VIS Double Beam UVD 3500 Research Spectrophotometer is a superior instrument for the research laboratory and is an advanced and affordable system that generates accurate and reproducible measurements. UVD-3500 spectrophotometer is accurate, reliable, and an exceptional value. With its narrow beam design, the system provides optimal and reproducible results for micro and macro samples with high resolution.

Spectro UV-VIS Double Beam UVD 3500 has a powerful built in software which permits this instrument to be linked to a computer and a printer to display the photometric and spectral data on the PC monitor. This spectrophotometer is rugged, reliable, affordable, and maintenance free. Spectro UV-VIS Double Beam UVD 3500's enhanced transmission and full reflection makes this double beam spectrophotometer highly effective and reduces noise.

Spectro UV-VIS Double Beam UVD 3500's advantage is its accurate wavelength, ease of operation, versatile software application, and effortless optional accessory installation. This instrument can be used for analyzing solid samples through use of an optional reflectance accessory and integrating sphere.

Spectro UV-Vis Double Beam (Model UVD-3500) with variable bandwidth of 0.1, 0.2, 0.5, 1.0, 2.0 and 5.0 nm is a high-performance, reliable, and exceptional value instrument which is the hallmark of Labomed UV-Vis spectrophotometers.

## Technical Specifications

Wavelength range:	190 nm – 900 nm	Absorbance Range:	-9.999 to 9.999 ABS
Spectral Bandwidth:	0.1, 0.2, 0.5nm, 1.0nm, 2.0nm, and 5.0 nm.	Continuously variable	
Straylight:	Less than 0.01%T	spectral bandwidth from:	0.1, 0.2, 0.5, 1.0, 2.0 and 5.0 nm.
Wavelength accuracy:	±0.3 nm(automatic correction)	Scanning Speed:	1000 nm/min
Wavelength Reproducibility:	0.1 nm	Interface Card:	PC Compatible
Photometric System:	The double-beam monitoring ratio system.	Detector:	Hi sensitivity R928 multiplier detector.
Optical System:	The monochromator of Czerny-Turner configuration with high-resolution diffraction holographic grating.	Photometric Display:	Unlimited
Photometric Method:	Transmittance, absorbance, reflectance, energy, concentration.	Photometric Noise:	< ±0.0003 Abs (500nm, 0Abs, 2nm Bandwidth)
Photometric Range:	-4.0 ~ 4.0 Abs	Slew rate of wavelength:	2400nm/min
Photometric Accuracy:	3%T 0.300%T	DNA/RNA Measurement	Results Printout
Photometric Reproducibility:	0.001Abs(0~0.5 Abs) 0.001Abs(0.5~1.0 Abs)	Mainframe:	Compact and standalone mainframe
	0.15%T (0~100%T)	Light Source:	Socket Deuterium Lamp and Socket Tungsten Halogen Lamp.
Baseline Flatness:	±0.001Abs	Sample Chamber:	With accessories like two-cell sample holder and optional integrating sphere.
Resolution:	1400nm/min	Size:	587mm. x 562mm. x 260mm.
Baseline Stability:	0004Abs/h (@ 500nm, after preheating)	Weight:	34 Kg.