



# Spectro UV-VIS Double PC 8 Auto Cell Scanning Spectrophotometer

**Models UVD-3000 and UVD-3200**

## 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:      | 0.008Abs/h (500 nm., after preheating).   |
| Spectral Bandwidth:          | 2.0 nm (Model UVD-3000 ) and<br>0.5, 1.0, 2.0 and 5.0 nm (Model UVD-3200) | Slew Rate of Wavelength: | 3600nm/min  |
| Resolution:                  | 0.1 nm  | DNA/RNA Measurement:     | Results Printout: Printing of measured data<br>by using any Printer with Parallel Port<br>connection available. |
| Straylight:                  | 0.2%T (220 nm and 340 nm)   | Mainframe:               | Compact and standalone spectrophotometer<br>mainframe   |
| Wavelength Accuracy:         | 0.3 nm (with automatic wavelength correction)                             | Light Source:            | Socket Deuterium Lamp and Socket<br>Tungsten Halogen Lamp   |
| Wavelength Reproducibility:  | 0.2 nm  | Detector:                | Double Beam   |
| Photometric System:          | The double-beam monitoring ratio system.                                  | Sample Chamber:          | Automatic eight-cell sample   |
| Photometric Method:          | Transmittance, absorbance, energy, concentration                          | Display                  | Liquid Crystal Display (LCD 320 - 240<br>dot matrix)  |
| Photometric Range:           | -0.3~3.0 Abs (0~200%T)  | Keypad:                  | Touch soft keys.  |
| Photometric Accuracy:        | 0.002Abs (0~0.5Abs) , 0.004Abs (0.5~1.0Abs)                               | PC Interface:            | PC Interface: RS-232  |
| Photometric Reproducibility: | 0.001Abs (0~0.5 Abs), 0.002Abs (0.5~1.0Abs),<br>0.15%T (0~100%T)          | Size:                    | 22" x 16" x 10"   |
| Photometric Display:         | -9999 ---- 9999   | Weight:                  | 55 Lb   |
| Photometric Noise:           | < ±0.001Abs (500nm, 0Abs, 2nm Bandwidth)                                  |                          |   |
| Scanning Speed:              | 1400nm/min  |                          |   |
| Baseline Flatness:           | 0.0015Abs (190 nm. ~1100 nm.)   |                          |   |