



## Double Beam Spectrophotometer "UV-2300 II"

**BAND WIDTH 1.5 nm. TOTAL STABILITY DOUBLE BEAM OPTICS.**  
**AUTOMATIC WAVELENGTH CORRECTION CALIBRATION.**  
**USB PORT FOR DATA STORAGE.**  
**WIDE RANGE OF ACCESSORIES.**



NEW  
DESIGN

### APPLICATIONS

Research, chemistry, biotechnology, general spectroscopy analysis applications, environmental applications.

### FEATURES

**Monochromator high resolution** optics that eliminate any optical aberrations, monochromator "Seya-Namioka", manufacturer of exclusive beam technologies and diffraction gratings in Japan.

**Bandwidth 1.5 nm** in accordance with European pharmacopoeia recommendations. (the relation between the maximum and minimum absorbance in Toluene and Hexane at 0.02% (V/V) should be more than 1.5T).

**Several modes of operation** including spectral scanning, time base scanning, multi wavelength determinations, peak and trough detection, etc.

**Fast spectra scan displayed on a screen** covering the whole spectral range: quick scan 3600 nm/minute, range 190 to 1100 nm

#### Validation function for GLP/GMP:

This function maintains and assures the optimum working parameters of the instrument. Parameter such as the wavelength precision and noise are monitored.

#### Memory facilities of analytical results:

The analytical parameters and results can be stored in the "flash" memory, connected by the USB. The stored information can be stored as text and can be transferred to a computer for reporting using MS WORD/EXCELL.

**A DNA/RNA function is fitted to quantify** the ratio at 260/280 nm.

Controllable from a computer with application specific optional software: **"UV-Analyst Spectrum"**, (see accessories).



### SPECIFICATIONS

Optical system:	Double beam optics.
Wavelength range	190 nm to 1100 nm.
Band pass:	1.5 nm
ABS range:	-2.000 to 3.000 A or 0 to 300% T.
Stray light:	less than 0.05% (220 nm NaI, 340 nm NaNO <sub>2</sub> ).
Scan speed:	10, 100, 200, 400, 800, 1200, 2400 and 3600 nm/minute.
Wavelength accuracy:	±0.3 nm.
Photometric accuracy:	± 0.002 A from 0 to 0.5 A. ± 0.004 A from 0.5 to 1.0 A.
Baseline stability:	0.003A/hr (500 nm after 2 hours of use.).
Noise level:	0.003 A (at 500 nm).
Light source:	Deuterium D2 and Halogen lamps.
Built in screen:	LCD back light of 190 x 138 mm.
Connections:	RS232 and parallel port.



USB port. "Flash" memory not included.



Constant temperature 6 place cell changer, 10mm cuvettes, ideal for Kinetics.  
Part No. 5110029

### SPARES

**Tungsten halogen lamp.**  
Part No. **5110021**

**Deuterium lamp (UV).**  
Part No. **5110022**

MODEL	Part No.	Height / Width / Depth cm	Voltage	Weight Kg
UV-2300 II	<b>5110020</b>	25 50 56	110-220V / 50-60Hz	28

### ACCESSORIES

Part No. <b>5110023</b>	Flow cell 10 mm path length.
Part No. <b>5110024</b>	Constant temperature single cell holder for 10mm flow cell.
Part No. <b>5110025</b>	Micro cell holder for 10mm (50 µl) cell.
Part No. <b>5110026</b>	Long path length cell holder for 100mm cells.
Part No. <b>5110027</b>	5 Position cell changer for 10mm cuvettes.
Part No. <b>5110028</b>	Constant temperature cell holder for 10mm cuvettes
Part No. <b>5110029</b>	6 place constant temperature cell changer for 10mm cuvettes.
Part No. <b>5110033</b>	<b>Software UV-Analyst Spectrum.</b> Simple and logical, enhanced software for multiple applications and results and manipulation of data, calculation such as DNA/RNA ratios.