

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.**

**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:	-3.000 to 3.000 A or 0 to 300% T.
Stray light:	less than 0.05% (220 nm NaI, 340 nm NaNO ₂).
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:	0.0003A/hr (500 nm after 2 hours of use.).
Noise level:	0.0003 A (at 500 nm).
Light source:	Deuterium D2 and Halogen lamps.
Built in screen:	LCD back light of 165 x 122 mm.
Connections:	RS232 and parallel port.

MODEL	Part No.	Height / Width / Depth cm	Voltage	Weight Kg
UV-2300 II	5110020	26 50 59	110-220V / 50-60Hz	29



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

ACCESSORIES

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