# Ultraviolet-Visible Double Beam Spectrophotometer “UV-6301”

**BAND WIDTH 1 nm. TOTAL STABILITY DOUBLE BEAM OPTICS.**
**AUTOMATIC WAVELENGTH CORRECTION CALIBRATION.**
**USB PORT FOR DATA STORAGE.**
**WIDE RANGE OF ACCESSORIES.**

## APPLICATIONS

Investigación, laboratorios químicos, biotecnológicos, análisis espectrofotométricos y ensayos ambientales.

## COMMON FEATURES

All methods are included as built-in standard, this eliminates de need of additional software.

**The local control software includes functions as ;** Photometry, Quantitative, wavelenght scan, Kinetics, DNA/Protein, Muli wavelenght, Test and system Utilities

**Kinetics:** This mode may be used for time course scanning or reaction rate calculations. Abs vs time graphics is displayed on the screen in real time.
Wait time and measurement time up to 12 hours may be entered with time ingtervals of 0,5, 1, 2,5 10, 30 seconds and 1min.

**Standard Curve:** Up to 10 standard solutions may ve used to establish calibration quation curve. There is a choice of four methods for fitting curve through the calibration points. Linear Fit, Linear fit though zero, Square fit and cubic fit.

**Multi-Wavelenght:** Up to 10 wavelenghts may be entered, allowing the measurement of multiple wavelenghts on a series of samples.

**Wavelength Scan:** The wavelenght scan intervals are 0.1, 0.2, 0.5, 1, 2, 5nm and High, medium and Low scan speeds are available. Scan speeds vary from 100 to 3000 nm/min. Wavelenghts are scanned from high to low so that the instrument stand-by at high wavelenght. This minimizes de degradation of UV sensitive samples. precise control of filter and lamp changes measn that their effects are not seen on the final scan.

**DNA/protein test:** Concentration and DNA purity are calculated. Absorbance ratios 260nm/280nm or 260nm/230nm with optional subtracted absorbance at 320nm

## TECHNICAL DATA

| | |
|---|---|
| Display: | LCD 5” - 320 X 240p |
| Optical system: | Double beam |
| Absorbance Rang: | -0,3….+3,0 A |
| Absorbance Precision: | ±0,0002 A a 1,0 A |
| Photometric Precision: | < 0,3% T |
| Photometric Range : | 0 - 200% T; 0,3 - 3A |
| Photometric Stability: | 0,001 A/h a 500 nm |
| Wavelenght Accuracy: | ± 0,3 nm |
| Wavelenght Range: | 190 - 1100 nm |
| Interface: | Paralel port ( printer ) |
| Light source: | Tungsten & Duterium |
| Memory: | 200 test & 200 curves |
| Output: | USB |
| Scan Speed: | 100 - 3000 nm/min.<br>Intervals 0,1; 0,2; 0,5; 1,0; 5,0 nm |
| Stray Light: | < 0,05% T a 220 y 360 nm |








**USB connectable storage.**
**“Flash” memory not included.**

| MODEL | Code | Height / Width / Depth cm | | | Voltage | Weigth Kg |
|---|---|---|---|---|---|---|
| UV-6301 | 4120036 | 60 | 45 | 20 | 110-220V / 50-60Hz | 22 |

**SPARE PARTS**

**Tungsten halogen lamp.**
Part No. 9597510

**Deuterium lamp (UV).**
Part No. 4312006