

# Double Beam UV-VIS Spectrophotometer

2375



## Advantages

- Double Beam Optics
- 320 x 240 Dots Graphical LCD
- Auto Wavelength Setting
- On-screen Standard and Kinetic Curve Display
- Tungsten/Deuterium Lamp can be turned ON/OFF Individually to Extend Lifetime
- Application Software provides complete control of the instrument from a computer through the built-in USB Port.
- Basic, WL Scan, Multi-Wavelength, Kinetic, Quantitative, DNA/Protein modes
- Pre-aligned design makes it convenient to change Lamps
- Large Sample Compartment, can accommodate 5-100 mm path-length cuvettes with optional holders. 8-Position Auto Cell Changer of 10 mm Path-length provided.

1 Year  
Warranty

Double Beam Spectrophotometer is a solid state microprocessor based instrument designed for quick and accurate spectrophotometric analysis of any concentration. It operates at a wavelength range of 190 nm to 1100 nm. The use of diffraction grating in the monochromator produces a linear spectrum. The grating having very high resolution of 1200 lines/mm ensures a narrow bandwidth.

The instrument is equipped with 5 Inches 320 x 240 dots graphical LCD the which makes the results easy to read. User can see the test curves on the graphical LCD screen. The system has soft touch numeric keys with complete numeric key that provides a convenient interface for entering numeric values.

The instrument output is available in terms of % Transmission (%T), Absorbance (Abs.), & Concentration (Conc.).The instrument is suitable for clinical lab applications, pharmaceutical and biochemical, as well as routing applications such as quantitative analysis, kinetics, wavelength scan, multi-wavelength and DNA/Protein analysis.The instrument has sample storage memory and printer output port for printing of data with any dot matrix printer. The PC can be connected using the USB Interface. Provision for 8 position auto cell changer with 10 mm path-length cuvette is provided.

The instrument uses the latest microprocessor technology and advanced engineering techniques so as to give enhanced accuracy and reproducibility.



## UV-VIS Spectrophotometer

### Technical Data

MODEL	2375
MEASURING MODES	Basic, Wavelength Scan, Multi Wavelength, Kinetics, Quantitative, DNA/Protein
WAVELENGTH RANGE	190 - 1100 nm
SPECTRAL BANDWIDTH	1 nm
OPTICAL SYSTEM	Double Beam, Grating 1200 lines/mm
WAVELENGTH ACCURACY	± 0.3 nm
WAVELENGTH REPEATABILITY	± 0.2 nm
DETECTOR	Silicon Photodiode, Automatic Calibration 7 optimization
SCANNING SPEED	HI, MED, LOW, MAX 3000 nm/min
PHOTOMETRIC ACCURACY	± 0.3 %T or ± 0.002A/h@1A
PHOTOMETRIC RANGE	0 - 200 %T, -0.3 to 3A, 0 - 9999 Conc.
STRAY LIGHT	< 0.05 %T @ 220nm & 340nm)
STABILITY	± 0.001 A/h @ 500 nm
DISPLAY	5 Inches 320 x 240 Dots Graphical LCD
BASELINE FLATNESS	± 0.001A/h (200 - 1000 nm)
SAMPLE COMPARTMENT	Standard 8 cell with automatic cell changer - 10 mm path-length. (50 mm & 100 mm path-length optional at extra cost)
LIGHT SOURCE	Tungsten Halogen & Deuterium Lamps (Pre-Aligned)
OUTPUT	USB for PC Connectivity and Parallel Port for dot matrix printer
POWER	230 V±10% AC, 50 Hz
DIMENSIONS (L x B x H)	Instrument : 590 x 455 x 250 mm (Approx.) Box : 650 x 535 x 335 mm (Approx.)
WEIGHT	Instrument : 17.5 Kg. (Approx.)      Box : 20 Kg (Approx.)

ACCESSORIES SUPPLIED :

- Quartz Cuvettes - A set of 2
- Glass Cuvettes - A set of 4 Pairs
- Dust Cover
- Operation Manual
- Software manual
- Mains Lead
- USB Lead for PC Interface

Note: Specifications are subject to change due to continuous improvements

### Product Range

Semi Auto Analyser, Single Beam and double Beam UV/VIS Spectrophotometer, Flame Photometers, Haemoglobin Meter, Digital pH, Meter, Digital Photo Fluorometer, Digital Conductivity Meter, Digital Photo Colorimeter, Turbidity Meter, Auto KF Titrimer, Digital DO Meter, Digital Conductivity Meter, Digital TDS Meter, Temperature Indicator, Digital Telethermometer, Water & Soil Analysis Kit, Digital Salinity Meter, Digital Colony Counter, Portable pH Meter, Portable Conductivity Meter, Portable TDS Meter, Portable DO Meter, Digital Tablet Disintegration Apparatus, Digital Friability Test Apparatus Tablet Dissolution Test Apparatus, Melting Point Apparatus, Student Microscope, Binocular microscope, Medical Microscope. Co-Axial Microscope.