

**Product Name :**  
Microprocessor UV-Vis Spectrophotometer**Product Code :**  
ELABANALYTICAL0006**Description :**

Microprocessor UV-Vis Spectrophotometer

**Technical Specification :**

Scanning Spectrophotometer  
Wavelength Range 190 -1100 nm  
128 x 64 Dot Graphical LCD  
Auto Wavelength Setting  
On-screen Standard and Kinetic Curve Display  
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 with professional PC software (optional)  
Pre-aligned design makes it convenient to change Lamps  
Large Sample Compartment, can accommodate 5-100 mm path length cuvettes with optional holders.  
Complete Numeric Keypad for ease of Operation

Microprocessor UV-VIS Spectrophotometer is a solid state microcontroller 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 instrument uses the latest microprocessor technology and advanced engineering techniques so as to give enhanced accuracy and reproducibility.

The instrument is equipped with 128 x 64 dots large graphical lcd the makes the result easy to read.  
User can see the standard curve on-screen.

The system has soft touch numeric keys with complete numeric key that provides a convenient interface for

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entering numeric values.

Provision has also been made for attachment of any dot matrix printer using centronics interface and PC connectivity through USB port.

Large Sample Compartment, can accommodate 5-100 mm path length cuvettes with optional holders. The instrument is supplied with a 4 position 10mm cell changer.

The 'Basic' PC software for quantitative / kinetic mode is supplied with the instrument.

The 'Professional' PC software is optional for extending the functionality to wavelength scanning and DNA/Protein analysis (at extra cost).

Optics: Single Beam, Grating 1200 lines/mm

Wavelength Range: 190 - 1100 nm

Spectral Bandwidth: 2 nm

Wavelength Accuracy:  $\pm 0.5$  nm

Wavelength Repeatability: 0.3 nm

Wavelength Resolution:  $\pm 0.1$  nm

Photometric Accuracy:  $\pm 0.3$  %T or 0.003A @ 1 A

Photometric Range: 0 - 200 %T, -0.3 to 3A, 0 - 9999 Conc.

Photometric Mode: %Transmission, Absorbance and Concentration

Stability:  $\pm 0.002$  A/h @ 500 nm

Stray Light: Display: 128 x 64 Dots Graphical LCD

Keyboard: Soft Touch Membrane Keys

Detector: Silicon Photodiode

Sample Compartment: Standard 4-Position 10 mm path-length cuvette holder. Accommodates upto 100 mm path-length cuvette with optional holder

Output: USB Port for PC Connectivity, Parallel Port for Dot Matrix Printer

PC Software: Basic PC Software provided for Quantitative/Kinetic analysis. Professional PC Software (Optional) for additional wavelength scan and DNA/Protein Test, available at extra cost.

Light Source: Tungsten & Deuterium Lamps

Power: 230 V  $\pm 10\%$  AC, 50 Hz

Accessories: Quartz Cuvettes - A set of 2, Glass Cuvettes - A set of 4 Mains Lead, Operation Manual and Dust Cover

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**Elab Engineering Equipments Manufacturers**