









| UV-VIS Spectrophoto | meter S | L 1 | 59 | |
|------------------------|-------------|---------|----|--|
| | | | | |
| Multi Path Length | LCD Display | Cuvette | PC | |

Scanning UV-Visible Spectrophotometer. Microprocessor based with Printer Interface.

Stable Single Beam Optics.

SALIENT FEATURES

- Fully Automatic, user friendly and menu driven.
- Automatic Wavelength Calibration, Selection of Wavelength and Positioning of the sample holder.
- > Programmable Wavelength for Lamp change over.
- Automatic 6 position cuvette holder for 10 mm path length cuvettes.
- Lamp selection enables conserving the life of the lamps.
- Stand alone unit offers an advanced technology with data processing features for Scanning, Discrete Wavelength, Concentration determination by standards and ε-factor method, Time scan with minimum time interval of 1.0 sec, Auto-zero facility, self check and self diagnostic modes.
- 100 User programs- Instrument automatically selects Wavelength depending upon the selection of the method.
- Compact, Modular & Ergonomically designed.

SOFTWARE FEATURES

- Optional Multi Tasking user friendly PC Software provides the Analysis to run all the features available in Standalone Unit and additionally has techniques to view, analyse and display upto 4th order derivate Spectra, overlay of maximum ten Spectra, Peak Picking Facilities, % Concentration mode, Auto Zero Facility, Spectra Zooming, Smoothing, Data Saving, Retrieval, Interpretation of Data and Printing.
- Software is 21 CFR Part 11 compliant with password method protection, Instrument logbook etc. cGLP compliance addressed.



APPLICATIONS

- For any Spectrophotometric or Colorimetric measurement where applications require very highresolution bandwidth and cGLP compliance is mandatory.
- Enzyme Kinetics.
- Micronutrients like N, P, K, S, Ca, Mg, Zn, Cu, B, Mo, etc., in Agricultural soil, Plants etc.
- Organic compounds in Biological matter.
- Glucose, Fructose, Carbohydrates, Proteins etc., in Foods.
- Edible Dyes, Alcohols etc., in Beverages.
- Purity of constituents in Pharmaceuticals.
- Toxic elements like Cadmium, Lead, Arsenic and Mercury etc., in Effluents.
- Constituents in compositions used in Metallurgy, Fertilizer, Pesticide, Chemical, Petrochemical, Steel, Cement, Glass & Other Industries.
- Life Science Applications.



SPECIFICATIONS

| SPECTRAL | | PHOTOMET | RIC | | MON | IOCHR | OMATOR | |
|---|--|---------------------------------|--|--|------------------------------------|---|--------------------------------------|--|
| Range | 190 to 1100 nm | Range ± 2.500 Abs | | Czerr | Czerny - Turner type with | | | |
| Bandwidth 2 nm | | Accuracy ± 0.005 Abs at 1.0 Abs | | 1200 lines/mm Holographic Diffraction Grating | | | | |
| Readability | 0.1 nm | ± 0.010 | | Abs at 1.5 Abs | | | | |
| Accuracy | ± 0.5 nm | Repeatability | ± 0.003 Abs at 1.0 Abs | | | | | |
| Repeatability ± 0.2 nm | | Stability (Baseline) | bility ± 0.003 Abs/hr. after seline) 2 hour warm up | | | CONTROL | | |
| LIGHT SOURCE | | | | 200 nm | Stand | lalone | Microprocessor & Micro controller | |
| Deuterium Lamp (D ₂) & | | with KC | | | Optio | nal | Through Compute | |
| Tungsten (W) Halogen Lamp | | | | <1% T at 220 nm with Nal 10g/L | | | | |
| DETECTOR Silicon Photo Diode | | Readability | %Т | 0.01 | PC C | CONNECTIVITY | | |
| | | | Abs | 0.0001 | USB I | ISB Interface | | |
| DATA PRES | ENTATION | | | SAMPLE A | ттаснмі | ENT | | |
| Display 4 line 20 Character Dot Matrix Backlit LCD Module | | | | Standard | | otorised 6 position Cuvette holder r 10 mm Path Length Cuvettes. | | |
| Hard Copy On Printer (Centronics) | | | | Optional | Length Cu | otorised 2 position multi path ength Cuvette holder for 10, 20, 40 | | |
| DATA PROC | ESSING | | | | & 50 mm | Path Le | ength Cuvettes. | |
| Standalone Spectrum, Discret | | | | ACCESSORIES SUPPLIED | | | | |
| | Concentration, ε - Factor, Time Scan, Auto Zero and Printing. | | | With Instrument | 10 mm Path length Cuvettes - 2 nos | | | |
| PC ModeSpectrum, Discrete Wavelength, Concentration, ε - Factor, Time Scan, Enzyme Kinetics, Overlay, Ratiometric, Peak Picking, Upto 4 th order Derivative, Spectra Zooming, Smoothing, Data Saving & Retrieving, Auto Zero facility and Printing | | | At extra Cost | Multi Path length Cuvette holder, 10 mm, 20 mm, 40 mm, 50 mm and 100 mm Path length Cuvettes, Micro Cuvettes, PC, Spectratreats Software and Printer | | | | |
| | | | | PHYSICAL | DIMENSI | ONS | | |
| POWER REQUIREMENT | | | Size (WxDxH) in mm | | 520 | x 395 x 180 | | |
| 90-260 V AC, | 50–60 Hz, 1 <mark>φ</mark> , 170 V/ | A Max. | | Weight (in kg) | | App | orox. 17 | |



• Delhi

Bhopal

Ahmedabad

Lucknow

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Specifications are subject to change as a process of continual development.



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