

SL 159 UV-Vis Spectrophotometer



SPECTRAL		PHOTOMETRIC			MONOCHROMATOR			
Range	190 to 1100 nm	Range	± 2.500 Abs			Czerny - Turner type with		
Bandwidth	2 nm	Accuracy	± 0.005 Abs at 1.0 Abs ± 0.010 Abs at 1.5 Abs			1200 lines/mm Holographic Diffraction Grating		
Readability	0.1 nm				Diffice	5/// 5/		
Accuracy	± 0.3 nm	Repeatability	± 0.003		Shows and			
Repeatability	± 0.2 nm	Stability (Baseline)	± 0.003 Abs/hr. after 2 hour warm up		CONT		Microprocessor &	
LIGHT SOURCE		Stray Light	<1% T at 200 nm		Julidulone	Micro controller		
Deuterium Lamp (D ₃) & Tungsten (W) Halogen Lamp			with KCI 12g/L		Option	al	Through Computer	
			<1% T at 220 nm with Nal 10g/L					
DETECTOR		Readability	%T	0.01	PC CO	PC CONNECTIVITY USB Interface		
Silicon Photo Diode			Abs	0.0001	USB In			
DATA PRESE	NTATION			SAMPLE A	TTACHMEN	T		
Display	4 line 20 Character Dot Matrix Backlit LCD Module			Standard	Motorised 6 position Cuvette holder for 10 mm Path Length Cuvettes.			
Hard Copy	On Printer (Centronics)			Optional		Notorised 2 position multi path ength Cuvette holder for 10, 20, 40		
DATA PROCE	SSING						ngth Cuvettes.	
Standalone Spectrum, Discrete Wavelength,				ACCESSORIES SUPPLIED				
	Concentration, ε - Factor, Time Scan, Auto Zero and Printing.			With Instrument	10 mm Pat	10 mm Poth length Cuvettes - 2 nos		
PC Mode Spectrum, Discrete Wavelength, Concentration, e - Foctor, Time Scan, Enzyme Kinetics, Overlay, Ratiometric, Peak Picking, Upto 4" 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 DIMENSIONS				
POWER REQUIREMENT			Size (WxDxH) in mm		520 x 395 x 180			
90-260 V AC, 50-60 Hz, 1φ, 170 VA Max.				Weight (in kg)		Approx. 17		

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

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 withdata 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.
- Data in the form of graph and table can be printed directly on to a printer.
- 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 toview, analyses and display up to 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 passwordmethod protection, Instrument logbook etc. cGLP compliance addressed.

APPLICATIONS

- For any Spectrophotometric or Colorimetricmeasurement where applications require very high-resolution 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, Proteinsetc., in Foods.
- *Edible Dyes, Alcohols etc., in Beverages.*
- Purity of constituents in Pharmaceuticals.
- Toxic elements like Cadmium, Lead, Arsenicand Mercury etc., in Effluents.
- Constituents in compositions used in Metallurgy, Fertilizer, Pesticide, Chemical, Petrochemical, Steel, Cement, Glass & Other Industries.
- *Life Science Applications.*