

SCANNING
MINI SPEC

SL 177

PRODUCT SPECIFICATION SHEET



Scanning Mini Spec

SL 177



Multi Path Length



Table Top



LCD Display



Cuvette

Scanning Visible Spectrophotometer covering Near UV, Visible and Near IR Spectral Region.

Microprocessor based with Printer Interface.

Stable Single Beam Optics.

SALIENT FEATURES

- ▶ Automatic Wavelength selection and Positioning of the sample holder.
- ▶ Automatic 6 position cuvette holder for 10 mm path length cuvettes.
- ▶ 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.
- ▶ Data in the form of graph and table can be printed directly on to a printer.
- ▶ Compact, Modular & Ergonomically design.
- ▶ Fully Automatic, user friendly and menu driven.

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 Derivates 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.



Soil



Agriculture



Pharmaceutical



MicroNutrients



Chemical



Pesticide



Academic



Metals



Fertilizer



Cement



Dyes



Food & Beverages



Glass



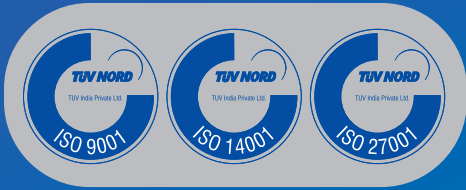
Mines & Geology

APPLICATIONS

- ▶ For any Spectrophotometric or Colorimetric measurement where applications are required.
- ▶ Enzyme Kinetics.
- ▶ Micronutrients like N, P, K, S, Ca, Mg, Zn, 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 and Mercury etc., in Effluents.
- ▶ Constituents in compositions used in Metallurgy, Fertilizer, Pesticide, Chemical, Petrochemical, Steel, Cement, Glass & Other Industries.
- ▶ Biological Samples.

SPECIFICATIONS

SPECTRAL		PHOTOMETRIC			MONOCHROMATOR	
Range	340 to 1000 nm	Range	± 2 Abs		Czerny - Turner type with 600 lines/mm Ruled Grating	
Bandwidth	5 nm	Accuracy	± 0.050 Abs at 1.0 Abs		CONTROL	
Readability	1 nm	Repeatability	± 0.010 Abs at 1.0 Abs			
Accuracy	± 1 nm	Stability (Baseline)	± 0.010 Abs/hr. after 2 hour warm up		Standalone	Microprocessor & Micro controller
Repeatability	± 1 nm	Stray Light	<0.5 % T at 340 nm		Optional	Through Computer
LIGHT SOURCE		Readability	%T	0.01	PC CONNECTIVITY	
Tungsten (W) Halogen Lamp			Abs	0.0001		
DETECTOR		Silicon Photo Diode			USB Interface	
DATA PRESENTATION				SAMPLE ATTACHMENT		
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	Motorised 2 position multi path Length Cuvette holder for 10, 20, 40 & 50 mm Path Length Cuvettes.	
DATA PROCESSING				ACCESSORIES SUPPLIED		
Standalone	Spectrum, Discrete Wavelength, Concentration, ε - Factor, Time Scan, Auto Zero and Printing.			With Instrument	10 mm Path length Cuvettes - 2 nos	
PC Mode	Spectrum, 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.	
POWER REQUIREMENT				PHYSICAL DIMENSIONS		
90-260 V AC, 50-60 Hz, 1φ, 170 VA Max.				Size (WxDxH) in mm	520 x 395 x 180	
				Weight (in kg)	Approx. 13	



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



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