

SL 177

PRODUCT SPECIFICATION SHEET

Scanning Mini Spec



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SL 177



Multi path Length



LCD Display



Cuvette



Table Top

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

Range	340 to 1000 nm
Bandwidth	5 nm
Readability	1 nm
Accuracy	± 1 nm
Repeatability	± 1 nm

LIGHT SOURCE

Tungsten (W) Halogen Lamp

DETECTOR

Silicon Photo Diode

DATA PRESENTATION

Display	4 line 20 Character Dot Matrix Backlit LCD Module
Hard Copy	On Printer (Centronics)

DATA PROCESSING

Standalone	Spectrum, Discrete Wavelength, Concentration, ϵ - Factor, Time Scan, Auto Zero and Printing.
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.

POWER REQUIREMENT

90-260 V AC, 50-60 Hz, 1 ϕ , 170 VA Max.

PHOTOMETRIC

Range	± 2 Abs	
Accuracy	± 0.050 Abs at 1.0 Abs	
Repeatability	± 0.010 Abs at 1.0 Abs	
Stability (Baseline)	± 0.010 Abs/hr. after 2 hour warm up	
Stray Light	<0.5 % T at 340 nm	
Readability	%T	0.01
	Abs	0.0001

MONOCHROMATOR

Czerny - Turner type with 600 lines/mm Ruled Grating

CONTROL

Standalone	Microprocessor & Micro controller
Optional	Through Computer

PC CONNECTIVITY

USB Interface

SAMPLE ATTACHMENT

Standard	Motorised 6 position Cuvette holder for 10 mm Path Length Cuvettes.
Optional	Motorised 2 position multi path Length Cuvette holder for 10, 20, 40 & 50 mm Path Length Cuvettes.

ACCESSORIES SUPPLIED

With Instrument	10 mm Path length Cuvettes - 2 nos
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

Size (WxDxH) in mm	520 x 395 x 180
Weight (in kg)	Approx. 13

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