

SL 210

PRODUCT SPECIFICATION SHEET

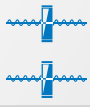
Double Beam UV-Vis Spectrophotometer

7 Inch Capacitive Touch Display



Double Beam UV-VIS
Spectrophotometer

SL 210



Double Beam



Touch Screen



Cuvette



PC

Smallest form factor Double Beam Spectrophotometer with High Resolution Bandwidth.

Automatic wavelength calibration and programmable wavelength for lamp change over.

PC compatibility through USB

SALIENT FEATURES

- 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.
- Data in the form of graph and table can be printed directly on to a printer.

SOFTWARE FEATURES

- 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 and Printing.
- Software is 21 CFR Part 11 compliant with password method protection, Instrument logbook etc. cGLP compliance addressed.



Chemical



Agriculture



Pharmaceutical



MicroNutrients



Soil



Pesticide



Academic



Metals



Fertilizer



Cement



Dyes



Food & Beverages



Glass



Mines & Geology

APPLICATIONS

- For any Spectrophotometric or Colorimetric measurement where applications require very high-resolution bandwidth and cGLP compliance is mandatory.
- Enzyme Kinetics.
- 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 and Other Industries.
- Micronutrients like N, P, K, S, Ca, Mg, Zn, Cu, B, Mo, etc., in Agricultural soil, Plants etc.
- Life Science Applications.

SPECIFICATIONS

SPECTRAL

Range	190 to 1100 nm
Bandwidth	1 nm
Readability	0.1 nm
Accuracy	± 0.5 nm
Repeatability	± 0.2 nm

LIGHT SOURCE

Deuterium Lamp (D₂) & 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 4th order Derivative, Spectra Zooming, Smoothing, Data Saving & Retrieval, Auto Zero facility and Printing.

PHYSICAL DIMENSIONS

Size (WxDxH) in mm	500 x 375 x 230
Weight (in kg)	Approx. 15

PHOTOMETRIC

System	Double beam optics	
Range	± 3 Abs	
Accuracy	± 0.005 Abs at 1.0 Abs	
	± 0.010 Abs at 1.5 Abs	
Repeatability	± 0.002 Abs at 1.0 Abs	
Stability (Baseline)	± 0.003 Abs/hr. after warm up	
Stray Light	<0.05% T at 220 nm with NaI 10g/L	
Readability	%T	0.01
	Abs	0.0001

MONOCHROMATOR

Concave holographic grating with 1200 lines/mm

CONTROL

Standalone	Microprocessor & Micro controller
Optional	Through Computer

PC CONNECTIVITY

USB Interface

SAMPLE ATTACHMENT

Standard	Fixed 10mm path length Holders for Reference and Sample.
Optional	Fixed multi path cuvette holders for Reference and Sample accommodating 10mm to 100 mm cuvettes.
	Fixed cuvette holder for Reference and 6 Position motorized 10 mm path cell holder for Sample.
	Fixed cuvette holder to accommodate micro cuvettes.

ACCESSORIES SUPPLIED

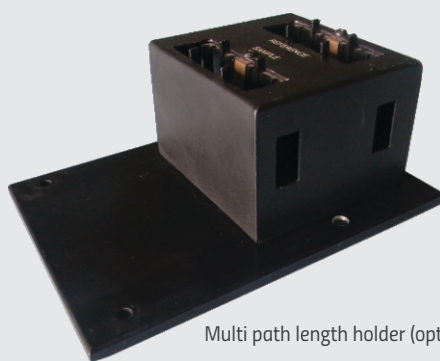
With Instrument	10 mm Path length Cuvettes - 2 nos
At extra Cost	Multi Path length Cuvette holder, 10 mm, 20 mm, 40 mm, 50 mm and 100 mm Path length Cuvettes, PC, Spectratreats®, Software and Printer

POWER REQUIREMENT

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



Single cuvette holder (standard)



Multi path length holder (optional)



6 cuvettes holder (optional)

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