

ELICO[®]
Connecting Science & Lab



**DOUBLE BEAM UV-VIS
SPECTROPHOTOMETER**

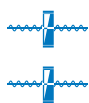
SL 218

PRODUCT SPECIFICATION SHEET



Double Beam UV-VIS Spectrophotometer

SL 218



Double Beam



Touchscreen



Cuvette



PC

7" High Resolution Touch Screen LCD Color Graphical Display with Built in PC .

Supports USB-Pen Drive to Store/Retrieve Mass Spectral Data.

Smallest form factor Double Beam Spectrophotometer.

SALIENT FEATURES

- ▶ Automatic wavelength calibration and programmable wavelength for lamp change over.
- ▶ Lamp selection enables conserving the life of the lamps.
- ▶ Built in Windows® Based PC Control.
- ▶ 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.
- ▶ Built in advanced Data Processing capabilities like 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.
- ▶ Supports USB printing with PCL 5e class printers.
- ▶ Networking Connectivity through TCP/IP Interface.

SOFTWARE FEATURES

- ▶ 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



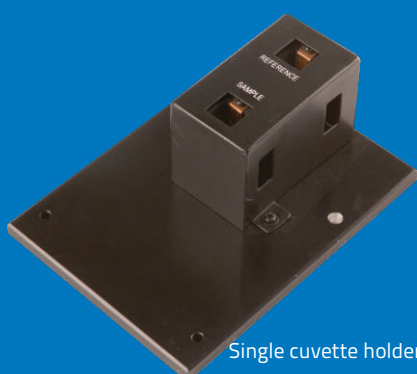
Mines & Geology

APPLICATIONS

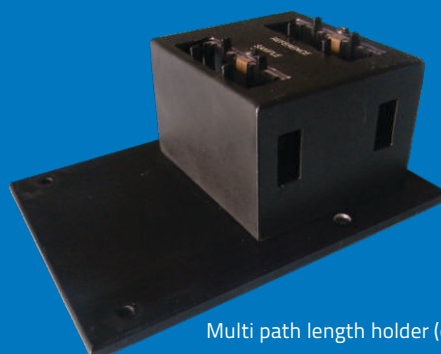
- ▶ For any Spectrophotometric or Colorimetric measurement where applications require very high-resolution bandwidth and cGLP compliance is mandatory.
- ▶ Enzyme Kinetics.
- ▶ Organic compounds in Biological matter.
- ▶ Glucose, Fructose, Carbohydrates, Proteins etc., in Foods.
- ▶ Edible Dyes, Alcohols 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 & 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		PHOTOMETRIC		MONOCHROMATOR	
Range	190 to 1100 nm	System	Double beam optics		Concave holographic grating with 1200 lines/mm
Bandwidth	1.8 nm	Range	± 3 Abs		
Readability	0.1 nm	Accuracy	± 0.005 Abs at 1.0 Abs		CONTROL
Accuracy	± 0.5 nm		± 0.010 Abs at 1.5 Abs		
Repeatability	± 0.2 nm	Repeatability	± 0.002 Abs at 1.0 Abs		Built-in Windows Based PC Control
LIGHT SOURCE		Stability (Baseline)	± 0.003 Abs/hr. after 2 hour warm up		PORTS
Deuterium Lamp (D ₂) & Tungsten (W) Halogen Lamp		Stray Light	<0.05% T at 220 nm with NaI 10g/L		
DETECTOR	Silicon Photo Diode	Readability	%T	0.01	3 USB Ports - Can be used for Printer, Keyboard, Pen Drive and Mouse
			Abs	0.0001	TCP/IP Port - Network Connectivity
DATA PRESENTATION			SAMPLE ATTACHMENT		
Display	7" (800 x 480) High resolution graphical display		Standard	Fixed 10mm path length Holders for Reference and Sample.	
Hard Copy	On printer (USB interface)		Optional	Fixed multi path cuvette holders for Reference and Sample accommodating 10mm to 100 mm cuvettes.	
Soft Copy	Mass Data Storage through USB Pen Drive			Fixed cuvette holder for Reference and 6 Position motorized 10 mm path cell holder for Sample.	
DATA PROCESSING				Fixed cuvette holder to accommodate micro cuvettes.	
Spectrum, Concentration, Concentration by ε -Factor, Enzyme Kinetics, Overlay, Time Scan, Discrete Wavelength, Ratiometric, Peak Picking, Spectra Zooming, Smoothing, Data Saving & Retrieval, Auto Zero facility and Printing.			ACCESSORIES SUPPLIED		
PHYSICAL DIMENSIONS			With Instrument	10 mm Path length Cuvettes, Built in UV VIS Spectratreats [®] Software	
Size (WxDxH) in mm	500 x 375 x 230		At extra Cost	Multi Path length Cuvette holder, 10 mm, 20 mm, 40 mm, 50 mm and 100 mm Path length Cuvettes, Micro Cuvettes, USB Pen Drive and Printer	
Weight (in kg)	Approx. 15				
POWER REQUIREMENT			90-260 V AC, 50-60 Hz, 1φ, 170 VA Max.		



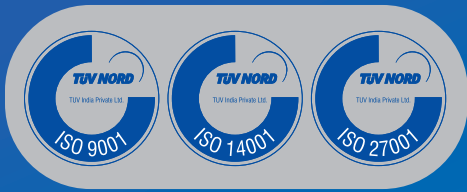
Single cuvette holder (standard)



Multi path length holder (optional)



6 cuvettes holder (optional)



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

ELICO®
Connecting Science & Lab

ELICO Ltd

B-90, A.P.I.E., Sanathnagar,
Hyderabad 500 018, A.P., India

tel +91 40 44451234

fax +91 40 23771639

elico@elico.co

For further information and details on our business, products, operations and innovation, please visit our corporate website www.elico.co

Feedback or Queries related to the product can be sent to us at support@elico.co

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+91 79 26565402 +91 80 23343470 +91 755 2460817 +91 44 28361949 +91 484 2536380 +91 11 23678736 +91 9433065156 +91 40 23777999 +91 33 32971135 +91 9971092539 +91 22 24110402