

Connecting Science & Lab

BIO SPECTROPHOTOMETER





Bio Spectrophot with Touch Scre Built in PC	cometer en &	L 2	22	
<mark>]</mark>				
Double Beam	Touchscreen	Flow Cell	PC	

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

Sipper Module with low Volume Flow Cell Attachment.

Supports USB-Pen Drive to store/retrieve Mass Spectral Data.

SALIENT FEATURES

- Smallest form factor Double Beam Spectrophotometer with a high-resolution bandwidth.
- 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 derivates 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.



APPLICATIONS

- DNA/RNA Quantification- Nucleic Acid Purity by Absorbance ratio and concentration by factor method.
- PROTEIN Determination By UV Absorbance, Lowry, Biuret, CBB and BCA methods.
- Enzyme Kinetics.
- For any Spectrophotometric or Colorimetric measurement where applications require very high-resolution bandwidth and cGLP compliance is mandatory.
- Organic compounds in Biological matter.
- Glucose, Fructose, Carbohydrates, Proteins etc., in Foods.
- Edible dyes, alcohols etc., in Beverages.
- > Purity of constituents in Pharmaceuticals.
- > and others.



SPECIFICATIONS

SPECTRAL		PHOTOMETRIC			MONOCHROMATOR		
Range	190 to 1100 nm	System	Doubl	e beam optics	Concave holographic grating		
Bandwidth	1.8 nm	Range	± 3 Abs		with 1200 lines/mm		
Readability	Readability 0.1 nm		± 0.005 Abs at 1.0 Abs		CONTROL		
Accuracy	Accuracy ± 0.5 nm		± 0.010 Abs at 1.5 Abs		Built-in Windows Based PC Control		
Repeatability	Repeatability ± 0.2 nm		± 0.002 Abs at 1.0 Abs				
LIGHT SOURCE		Stability (Baseline)	± 0.003 Abs/hr. after 2 hour warm up		PORTS		
Deuterium Lamp (D₂) & Tungsten (W) Halogen Lamp		Stray Light	<0.05% T at 220 nm with Nal 10 g/L		3 USB Ports - Can be used for Printer, Keyboard, Pen Drive and Mouse		
		Readability	%T	0.01	TCP/IP Port - Network Connectivity PC Port - PC Connectivity		
DETECTOR	Silicon Photodiode		Abs	0.0001			

DATA PRESENTATION

Display	7" (800 x 480) High resolution graphical display
Hard Copy	On printer (USB interface)
Soft Copy	Mass Data Storage through USB Pen Drive

DATA PROCESSING

Spectrum, Concentration, Protein Analysis - DNA / RNA Purity, Concentration by Factor, Enzyme Kinetics, Overlay, Time Scan, Discrete Wavelength, Ratiometric, Peak Picking, Spectra Zooming, Smoothing, Data Saving & Retrieval, Auto Zero facility and Printing

POWER REQUIREMENT

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



FLOW CELL

Size (WxDxH) in mm	12.5 x 12.5 x 35
Flow Cell Volume	195 µL

SAMPLE ATTACHMENT

Standard	5mm path length Sipper module with 10 to 50°C Temp. controlled holder
Optional	Fixed 10mm to 100 mm long path length cuvette holder

PHYSICAL DIMENSIONS

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

ACCESSORIES SUPPLIED

With Instrument	10 to 50°C Temperature controlled flow through Cell with Sipping System.
At extra Cost	10 to 100 mm long path cuvette holder and cuvettes, UV-VIS Spectratreats ® Software with 21 CFR Part 11 compliant, USB Pen Drive & Printer.

Temperature Controlled Flow Cell Module



© 2012 ELICO

ELICO, the ELICO Monogram, Connecting Science & Lab and all other trademarks, Spectratreats, AquaSpec, Elichrom, and other service marks, unless otherwise noted, are owned or licensed by ELICO Ltd.

All other brand names, product names or trademarks belong to their respective holders.

Copyright © 2012. ELICO Ltd. All rights reserved.

PRINTED IN INDIA (05/13)

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



SINCE 1960 500 ELET INNOVATIVE YEARS



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**

See our other products at www.elico.co/products



Ahmedabad	Bengaluru	Bhopal	Chennai	Cochin	Delhi	Guwahati	Hyderabad	Kolkata	Lucknow	Mumbai
ahm@elico.co +91 79 26565402							hyd@elico.co +91 40 23777999			mum@elico.co +91 22 2411040