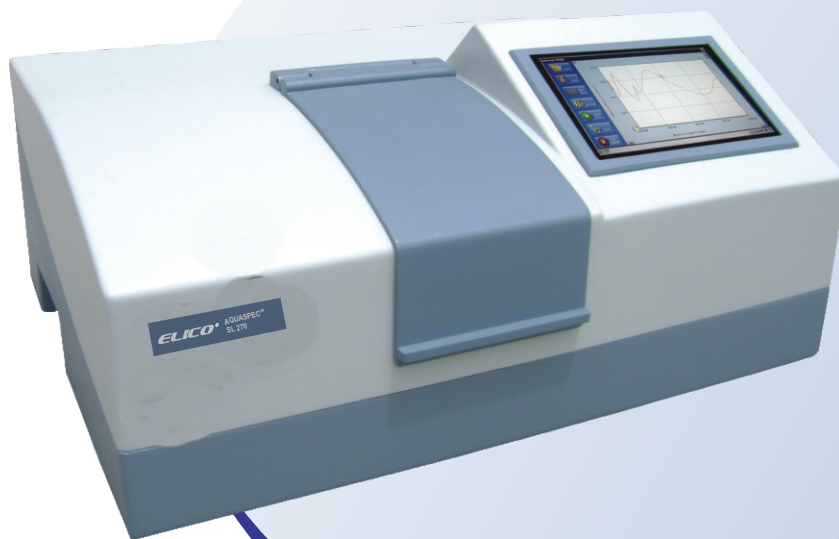


AQUASPEC™ SL 270

Specification Sheet



WITH 7" HIGH RESOLUTION TOUCH SCREEN LCD
COLOR GRAPHICAL DISPLAY WITH BUILT-IN PC CONTROL



MASS DATA STORAGE THROUGH
USB PEN DRIVE

SALIENT FEATURES & BENEFITS

- **PRE-DEFINED WATER ANALYSIS METHODS FOR DIRECT MEASUREMENT OF SAMPLES**
- **USER-DEFINED METHODS FOR CUSTOMISED ANALYSIS**
- **USE OF ROUND VIALS AND RECTANGULAR CELLS OF DIFFERENT SIZES WITHOUT ADAPTER**
- **SMALLEST FORM FACTOR DOUBLE BEAM SPECTROPHOTOMETER WITH SPECTRAL BANDWIDTH OF < 2nm**
- 7" High Resolution Touch Screen LCD Color Graphical Display
- Supports USB Pen Drive to Store / Retrieve Mass Spectral Data
- Supports USB Printing with PCL5e class Printers
- Built-In Windows Based PC Control
- Comes with automatic wavelength calibration, programmable wavelength for lamp change over
- Lamp selection enables conserving the life of the two lamps, deuterium and tungsten
- Instrument 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 onto a printer.
- Built-in advanced data processing capabilities 4th order derivative spectra, overlay of maximum ten spectra, peak picking facilities, % concentration mode, auto-zero facility, spectra zooming, smoothing, data saving and printer

APPLICATIONS

- **Water Analysis:**
in Drinking Water, Waste Water, Industrial Process Water & Industrial Waste Water
- **Common Tests for water Analysis:**
 - Aluminum
 - Chloride
 - Color
 - Copper
 - Fluoride
 - Iron
 - Mercury
 - Nitrate
 - Oxygen
 - Phosphorus
 - Zinc
 - Ammonia
 - Chlorine Dioxide
 - COD
 - Dissolved Oxygen
 - Hardness
 - Manganese
 - Mono Chloramine
 - Nitrite
 - Ozone
 - Silica
- Many other parameters required in water analysis etc.,
- This Instrument finds place for any spectrophotometric or colorimetric measurement where applications require very high-resolution and cGLP compliance is mandatory.
- **Constituents in compositions used in:**
 - Metallurgy
 - Fertilizer
 - Pesticide
 - Pharmaceuticals
 - Chemical
 - Petro Chemical
 - Steel
 - Cement
 - Glass & Other Industries.

SPECIFICATIONS

PARAMETER

SPECTRAL	
Range	190 to 1100 nm
Bandwidth	1.8 nm
Accuracy	± 0.5 nm
Repeatability	± 0.2 nm
Readability	0.1 nm

PHOTOMETRIC	
System	Double beam optics
Range	± 3.000 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 2 hour warm up
Stray Light	<0.05% T at 220 nm with NaI 10g/L
Readability	%T 0.01 Abs 0.0001

LIGHT SOURCE	Deuterium Lamp (D ₂) & Tungsten (W) Halogen Lamp
---------------------	--

MONOCHROMATOR	Concave holographic grating with 1200 lines/mm
----------------------	--

DETECTOR	Photodiode
-----------------	------------

CONTROL	Built-in Windows Based PC Control
----------------	-----------------------------------

PORTS	3 USB Ports - Can be used for Printer, Keyboard, Pen drive & Mouse. TCP/IP Port - Network connectivity PC Port - PC connectivity
--------------	--

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	
Built-in Advanced Capability	Spectrum, Overlay, Time Scan, Discrete λ , Ratiometric, Concentration, ϵ -factor, Upto 4th order derivative, Peak Picking, Spectra Zooming, Data saving, Auto Zero Facility Retrieving and Printing MS Office Tools

DATA STORAGE	Pre - Programmed methods User Programmable tests Sample data storage
---------------------	--

SAMPLE ATTACHMENT

Standard	Fixed multiple cell holders for Reference & Sample accommodating 10 to 50 mm path cuvettes and 16/24 Round Vials
Optional	Sipper module 10 to 50°C Temperature controlled cell holder

POWER REQUIREMENT

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

PHYSICAL DIMENSIONS

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

ACCESSORIES SUPPLIED

With Instrument	10 mm path length cuvettes, Built-in UV-VIS SpectraTreats [®] Software
At extra cost	10, 20, 40 & 50 mm path length cuvettes, 16/24 Round vials, Reagents kit USB Pen Drive, Microcuvettes and Printer

Specifications subject to change due to continual development



SPECTROLAB

Spectrolab Systems Limited
Suite 5, Enterprise Centre, Shrivenham 100 Business Park
Swindon, Wiltshire. SN6 8TZ, England

Tel: 0044 (0) 1793 783666 Fax: 0044 (0) 1793 782 333

Email : sales@spectrolab.co.uk
Web : www.spectrolab.co.uk