

SL 270

PRODUCT SPECIFICATION SHEET

AquaSpec

AquaSpec[™]

Dedicated Spectrophotometer for Water Analysis



AquaSpec

SL 270



Double Beam



Touch Screen



Multi Path Length
& Round Vials



PC

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 <math><2\text{nm}</math>.

SALIENT FEATURES

- 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 lamps.
- 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 like 4th order Derivative Spectra, Overlay of maximum ten Spectra, Peak Picking facilities, % concentration mode, Auto-zero facility, spectra Zooming, Smoothing, Data saving, Retrieval and Printing.



Water



Waste Water



Pesticide



Pharmaceutical



Chemical



Metals



Oil & Gas



Cement



Glass



Mines & Geology



Fertilizer



Food & Beverages

APPLICATIONS

- Water Analysis** in
Drinking Water
Waste Water
Industrial Process Water
Industrial Waste Water
Agricultural Water

Common Test for water Analysis

Aluminium	Fluoride	Oxygen
Ammonia	Hardness	Ozone
Chloride	Iron	Phosphorus
COD	Manganese	Silica
Color	Mercury	Zinc
Copper	Mono Chloramine	
Chlorine Dioxide	Nitrate	
Dissolved Oxygen	Nitrite	

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	Petrochemical
Fertilizer	Steel
Pesticide	Cement
Pharmaceuticals	Glass
Chemical	Other Industries

SPECIFICATIONS

SPECTRAL

Range	190 to 1100 nm
Bandwidth	1.8 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

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 2 hour 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

Built-in Windows Based PC Control

PORTS

3 USB Ports - Can be used for Printer, Keyboard, Pen Drive and 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

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.

DATA STORAGE

Pre Programmed Methods
User Programmable tests
Sample Data Storage

POWER REQUIREMENT

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

PHYSICAL DIMENSIONS

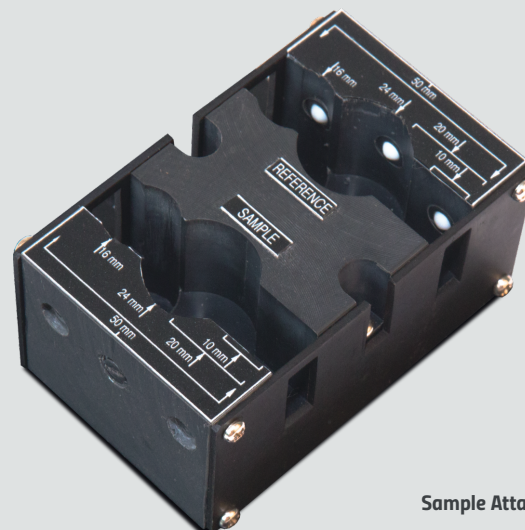
Size (WxDxH) in mm	500 x 375 x 230
Weight (in kg)	Approx. 15

SAMPLE ATTACHMENT

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

ACCESSORIES SUPPLIED

With Instrument	10 mm path length cuvettes, Built in 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.



Sample Attachment

Celebrating 60 years
of our Journey



www.elico.co/60years



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