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









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Connecting Science & Lab

AQUASPEC

SL 270

PRODUCT SPECIFICATION SHEET





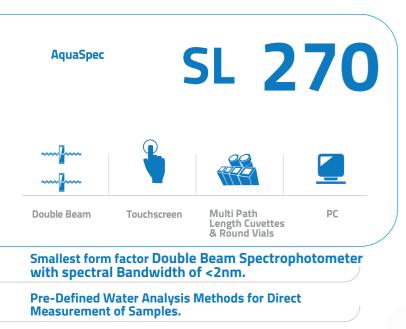
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Dedicated Spectrophotometer for Water Analysis





User Defined Methods for Customised Analysis.

Use of Round vials and Rectangular cells of different sizes without Adapter.

SALIENT FEATURES

- 7" High Resolution Touch Screen LCD Color Graphical Display. \triangleright
- Supports USB Pen Drive to Store / Retrieve Mass Spectral \triangleright Data.
- Supports USB printing with PCL5e class Printers. D
- Built-In Windows PC Control with MS Excel, MS Word & PDF D Support
- Comes with Automatic Wavelength calibration, \triangleright programmable wavelength for lamp change over.
- Lamp selection enables conserving the life of the lamps. D
- >220 pre-defined water analysis methods for direct D measurment of samples
- All types of Reagents like Tablet, Powder & Liquid can be \triangleright used for analysis
- Automatic cell recognition facility for different rectangular \triangleright cells and round vials
- Instrument offers an advanced technology with data \triangleright 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.
- \triangleright **Automatic Calibration**
- D Automatic wavelength selection based on method
- Built-in advanced data processing capabilities like 4thorder D Derivative Spectra, Overlay of maximum ten Spectra, Peak Picking facilities, % concentration mode, Auto-zero facility, spectra Zooming, Smoothing, Data saving, Retrieval and Printing.
- \triangleright Barcode Recognition facility to load inbuilt programmes automatically



APPLICATIONS

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

Common Test for water Analysis

Aluminum	Fluoride	Nitrite	
Arsenic	Formaldehyde	Oxygen	
Ammonia	Hardness	Ozone	
Barium	Hydrazine	Phenols	
Boron	Iron	Phosphate	
Cadmium	lodine	Phosphorus Potassium	
Cyanide	Lead	Selenium	
Chloride	Magnesium	Silica	
COD	Manganese	Silver	
Color	Mercury	Sulfate	
Copper	Moloybdenum	Toxicity	
Chlorine	Mono Chloramine	Volatile Acids	
Dioxide	Nickel	Zinc	
Dissolved Oxygen	Nitrate		

Many other parameters required in water analysis etc.

This Instrument finds place for any \triangleright Spectrophotometric or Colorimetric measurement where applications require very high-resolution and cGLP compliance is mandatory.

Also Constituents in compositions used in

Metallurgy	Petrochemical		
Fertilizer	Steel		
Pesticide	Cement		
Pharmaceuticals	Glass		
Chemical	Other Industries		

SPECIFICATIONS

SPECTRAL		РНОТОМЕ	тыс		MONOCHROMATOR
	100 to 1100		1		Concave holographic grating
Range	190 to 1100 nm	System	Double be	am optics	with 1200 lines/mm
Bandwidth	1.8 nm	Range	± 3.3 Abs		
Resolution	0.1 nm	Accuracy		s at 0.0 to 1.0 Abs	
Accuracy	± 0.5 nm			os at 1 to 2 Abs	Built-in Windows Based
Reproducibility		Linearity	<0.5% to 1		
LIGHT SOURC		Repeatability	4		PORTS
Deuterium Lam Tungsten (W) H (or)	alogen Lamp	Stability (Baseline)	2 hour wa	· · ·	3 USB Ports - Can be used for Printer, Keyboard, Pen Drive and Mouse
XENON FLASH	LAMP	Stray Light	<0.05% T a with Potas	at 220 nm ssium lodide	TCP/IP Port - Network Connectivity
DETECTOR S	ilicon Photo Diode	Readability	%T	0.01	PC Port - PC Connectivity
			Abs	0.0001	
DATA PRESE	NTATION			SAMPLE AT	TACHMENT
Display	7" (800 x 480) High resolution graphical display with touch screen		Standard	Fixed mulitiple cell hoders for Reference & Sample accomodating	
Hard Copy	On printer (USE	3 interface)			10 to 50 mm path cuvettes and 16/24 Round Vials
Soft Copy	Mass Data Stor USB Pen Drive			Optional	Sipper module
DATA PROCESSING				10 to 50°C Temperature Controlled cell holder.	
Spectrum, Concentration,Concentration by ε -Factor, Enzyme Kinetics, Overlay, Time Scan, Discrete Wavelength, Ratiometric, Peak Picking, Spectra Zooming, Smoothing, Data Saving & Retrieval, Auto		ACCESSORIES SUPPLIED			
		With Instrument	10 mm path length cuvettes, Built in Spectratreats ® Software.		
Zero facility and Printing. DATA STORAGE				Built-in user friendly windows based application software for all analysis	
>220 pre-defined water analysis methods for direct measurment of samples			At extra Cost	10, 20, 40 & 50 mm path length cuvettes, 16/24 Round vials,	
>200 user programmable methods Storage for >1000 data sets				A	
POWER REQUIREMENT					
90-260 V AC, 50-60 Hz, 1?, 170 VA Max.					
PHYSICAL DIMENSIONS			To the second	SI SI	
Size (WxDxH) in mm 500 x 375 x 230				12/11/11/11/11/11/11/11/11/11/11/11/11/1	
Weight (in kg) Approx. 15					
					Sample Attachment

SPECTRAL		PHOTOMETRIC			MONOCHROMATOR
Range	190 to 1100 nm	System	Double bea	m optics	Concave holographic grating
Bandwidth	1.8 nm	Range	± 3.3 Abs		with 1200 lines/mm
Resolution	0.1 nm	Accuracy	± 0.005 Abs	at 0.0 to 1.0 Abs	CONTROL
Accuracy	± 0.5 nm		± 0.010 Ab	s at 1 to 2 Abs	Built-in Windows Based
Reproducibility	± 0.2 nm	Linearity	<0.5% to 1	at 2 Abs	PC Control
LIGHT SOURC	E	Repeatability	/± 0.002 Abs	at 1.0 Abs	PORTS
Deuterium Lam Tungsten (W) Ha		Stability (Baseline)			3 USB Ports - Can be used for
(or) XENON FLASH L	AMP	Stray Light	<0.05% T at with Potas	t 220 nm sium lodide	Printer, Keyboard, Pen Drive and Mouse TCP/IP Port - Network Connectivity
	licon Photo Diode	Readability	%T	0.01	PC Port - PC Connectivity
			Abs	0.0001	
DATA PRESE	NTATION			SAMPLE AT	TACHMENT
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