





Spectrophotometer

PRODUCT SPECIFICATION SHEET





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

- 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, k-factor, multi standards, 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.

OPTIONAL

- Variable Bandwidth with incremental steps of 0.5 nm
- Automatic wavelength calibration and programmable wavelength for lamp change over.
- Lamp selection enables conserving the life of the lamps.

FEATURES SOFTWARE

 Software is 21 GLP Part 11 compliant with password method protection, Instrument logbook etc. cCFR compliance addressed.



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	
Selectable Wavelength	190 to 1100 nm (or)	System	Double beam optics			Czerny Turner with Concave holographic grating	
Range	340 to 1100 nm	Range	nge ± 4 Abs			(1200 lines/mm)	
Selectable	1 nm (or) <2 nm	Accuracy	± 0.005 Abs at 1.0 Abs				
Bandwidth			± 0.010 Abs at 1.5 Abs			CONTROL	
Readability	0.1 nm	Repeatability	± 0.002 Abs at 1.0 Abs			Built-in Windows Based PC Control	
Accuracy	± 0.3 nm	Stability	± 0.003 Abs/hr. after				
Repeatability	± 0.2 nm	(Baseline)	2 hour warm up			PORTS	
		Stray Light *	<0.05% T at 220 nm with Nal 10g/L			3 USB Ports - Can be used for Printer, Keyboard, Pen Drive and Mouse	
LIGHT SOURCE		Readability	%Т	0.01		TCP/IP Ethernet, WiFi	
Deuterium Lamp $(D_2)^* \&$ Tungsten (W) Halogen Lamp			Abs	0.0001		PC Port - PC Connectivity	
DETECTOR	Silicon Photo Diode or PMT			SAMPLE ATTACHMENT			
STORAGE	128 GB	128 GB			Fixed 10mm path length Holders for Reference and Sample.		
DATA PRESENTATION				Optional	Fixed multi path cuvette holders for Reference and Sample		
Display	7" (800 x 480) Hi graphical display	7" (800 x 480) High resolution graphical display			a	accommodating 10mm to 100 mm cuvettes.	
Hard Copy	On Printer (USB interface)			(ixed cuvette holder for Reference	
Soft Copy	Copy Mass Data Storage through USB Pen Drive					and 6 Position motorized 10 mm path cell holder for Sample.	
PHYSICAL DIMENSIONS						ixed cuvette holder to ccommodate micro cuvettes.	

ACCESSORIES SUPPLIED

With	10 mm Path length Cuvettes, Built-in
Instrument	UV-VIS Spectratreats® Software
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



500 x 375 x 230

Approx. 15

* Applicable for wavelength range 190 to 1100 nm

Size (WxDxH) in mm

POWER REQUIREMENT

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

Weight (in kg)





6 cuvettes holder (optional)

Celebrating 60 years of our Journey



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