ELICO®

VARIABLE BANDWIDTH
UV-VIS SPECTROPHOTOMETER
SL 160

SL

SALIENT FEATURES AND BENEFITS

- Double beam optics
- Microprocessor based Scanning UV-Visible Spectrophotometer with printer interface
- Optional PC attachment through RS 232C interface and MS Windows® based software for Data acquisition, processing, storage, retrieval and interpretation
- Fully automatic, user friendly and menu driven
- Variable bandpass
- Automatic wavelength calibration
- Lamp selection to conserve life of the light source with auto focusing
- Programmable wavelength for lamp Change over

APPLICATIONS

- This Instrument finds place for any spectrophotometric or colorimetric measurement where applications require very high-resolution bandwidth and cGLP compliance is mandatory.
- Micronutrients like N, P, K, S, Ca, Mg, Zn, Cu, B, Mo, etc., in Agricultural soil, Plants etc.
- 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, Mercury, Arsenic and Mercury etc., in Effluents.
- Constituents in compositions used in Metallurgy, Fertilizer, Pesticide, Chemical, Petro Chemical, Steel, Cement, Glass & Other Industries.
- Life science applications

SPECIFICATIONS

PARAMETER

SPECTRAL	
Range	190 to 900 nm
Bandwidth	Variable 0.2 to 6.0 nm
PHOTOMETRIC	
System	Double beam optics
Range	± 2.5 Abs
Stability (Baseline)	0.003 Abs/hr. after 2 hour warm up
LIGHT SOURCE	Deuterium Lamp (D_2) & Tungsten Halogen Lamps
MONOCHROMATOR	Czerny - Turner type with 1200 lines/mm holographic Grating
DETECTOR	Wide range Photo Multiplier Tube (PMT)
DATA PROCESSING	
Microprocessor Mode	Spectrum, Discrete , Concentration and Time Scan
PC Mode	Spectrum, Overlay, Time Scan, Discrete , Ratiometric, Concentration, Up to 4th order derivative, Peak picking, Spectra zooming, Smoothening, Averaging, Comparison, Data saving and Retrieving
CONTROL	Microprocessor (Computer - optional)

* For detailed specifications contact ELICO Corporate office / Branches
* Specifications subject to change due to continual development