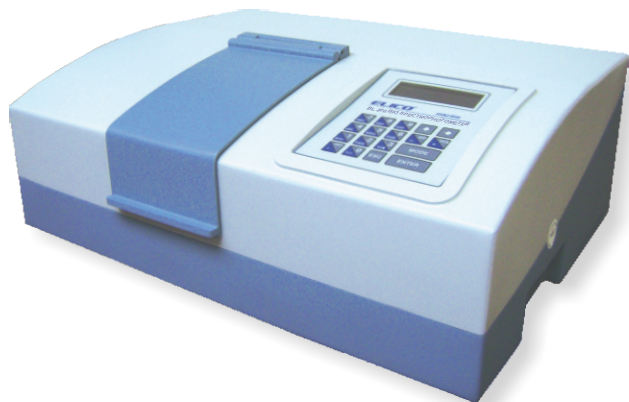


SALIENT FEATURES AND BENEFITS

- Smallest form factor double beam spectrophotometer with a high-resolution bandwidth
- Comes with automatic wavelength calibration and programmable wavelength for lamp change over
- Lamp selection enables conserving the life of the two lamps, deuterium and tungsten with auto focusing
- Menu driven microprocessor based software makes the stand-alone unit user friendly.
- Stand alone unit offers an advanced technology with data processing features for scanning discrete wavelength, concentration determination by standards and μ -factor method, time scan with minimum time interval of 1.0 sec, auto-zero facility, self check and self diagnostic modes.
- Software is 21 CFR Part 11 compliant with password method protection, Instrument logbook etc. cGLP compliance addressed.



APPLICATIONS

- For any spectrophotometric or colorimetric measurement where applications require very high-resolution bandwidth and cGLP compliance is mandatory.
- DNA/RNA Quantification
 - Nucleic Acid Purity by Absorbance ratio and concentration by factor method
- PROTEIN Determination
 - By UV Absorbance, Lowry, Biuret, CBB and BCA methods
- Enzyme Kinetics
- 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, Petrochemical, Steel, Cement, Glass & Other Industries.

SPECIFICATIONS

PARAMETER

SPECTRAL	
Range	190 to 1100 nm
Bandwidth	1.8 nm
PHOTOMETRIC	
System	Double beam optics
Range	± 3.000 Abs
Stability (Baseline)	± 0.003 Abs/hr. after 2 hour warm up
Stray Light	<0.05% T at 220 nm with NaI 10g/L
LIGHT SOURCE	Deuterium Lamp (D ₂) & Tungsten (W) Halogen Lamp
MONOCHROMATOR	Concave holographic grating with 1200 lines/mm
DETECTOR	Photodiode
CONTROL	Microprocessor and Microcontroller (Computer - Optional)
DATA PROCESSING	
Microprocessor Mode	Spectrum, Concentration, Protein Assay DNA / RNA purity, Concentration by Factor, Enzyme Kinetics
PC Mode	Spectrum, Overlay, Time Scan, Enzyme Kinetics, Multiwavelength, Ratiometric, Quantitative, Peak picking Spectra zooming, Smoothing, Averaging, Comparison, Data saving & Retrieving, up to 4th order Derivative and printing
SAMPLE ATTACHMENT	
Standard	Fixed 10mm path holders for Reference & Sample
Optional	Fixed cell holder to accommodate microcuvettes
PC CONNECTIVITY	USB Interface
* For detailed specifications contact ELICO Corporate office / Branches	
* Specifications subject to change due to continual development	