



***DOUBLE BEAM UV-VIS
SPECTROPHOTOMETER - LUS-B40***

Double Beam UV-Vis Spectrophotometer LUS-B40

Double Beam UV-Vis Spectrophotometer LUS-B40 a bench top device with 190 nm to 1100 nm wavelength range, and offers spectral bandwidth of 0.5/1/2/4 nm. Equipped with 16 mm thick rigid aluminium board as optical base, which highly ensures stability and reliability. Features dual optical path, dual beam optical system, dual detector, uses high performance imported prism grating, Tungsten Lamp & Deuterium Lamp as light source, and Imported silicon photodiode as detector with stronger stability, reliability, delivers results that are more accurate. Designed with 10 inch TFT Touch colored screen, can work on powerful software as well, and it performs functions like Photometric measurement, Quantitative measurement, Kinetics, Spectrum scan, DNA/Protein test, Multi-wavelength test etc. Three operation modes are available; they are Host, Computer and Mobile phone (App). This advance, high quality spectrophotometer supports USB data transfer and storage system.

FEATURES

- 10 inch touch screen with built-in 32G memory
- Equipped with 16 mm thick rigid aluminium board as optical base
- Tungsten Lamp & Deuterium Lamp as light source, and Imported silicon photodiode as detector
- Automatic 5 position cell holder with long light path
- Automatic 10 mm, 8 position cell holder
- Powerful storage function, Supports Bluetooth connectivity function, 3D graphs
- 21CFR PART 11 requirements compatible PC software
- Can print data and graphs directly by A4 printer
- Supports USB data transfer and storage system
- Two types of automatic cell holders (optional)
- Installation of Integrating sphere (optional)

APPLICATIONS

Double beam UV-Vis spectrophotometer features flexible spectral bandwidth, dual beam steady optics and exceptional accuracy for photometric concentration, multi-wavelength, spectrum scanning, kinetics, quantitation, DNA, RNA and protein analysis across biochemistry, medical science, pharmacy, biotechnology, food science, environmental science, etc.

SPECIFICATION

Model no.	LUS-B40
Wavelength range	190 to 1100 nm
Spectral bandwidth	0.5/1/2/4 nm
Wavelength Accuracy	± 0.1nm (D2, 656.1 nm), ± 0.3 nm full range
Wavelength Repeatability	≤ 0.1 nm
Optical system	Double beam grating 1200 lines/mm
Photometric Range	0 to 200 %T, -0.3 to 3.0 A, 0 to 9999 C (0 to 9999F)
Photometric Accuracy	± 0.2T (0 to 1009 % T)
	± 0.002 Abs (0 to 0.5 Abs)
	± 0.004 Abs (0.5 to 1.0 Abs)
Photometric Repeatability	≤ 0.05 % 6T (0 to 100 % 6T)
	0.001 Abs (0 to 0.5 Abs)
	0.002 Abs (0.5 to 1.0 Abs)
Detector	Imported silicon photodiode
Light source	Imported Deuterium and Tungsten lamp
Stray light	≤ 0.03 % T @ 220 nm, 360 nm
Stability	± 0.0004 A/h @ 500 nm
Data Output Port	USB drive, USB host, RS232
Print Port	USB drive, USB host, RS232
Power supply	AC 220 V, 50 Hz or 110 V, 60 Hz
Noise	± 0.0004
Baseline flatness	± 0.001 A
Display	10.1 inches TFT colored capacitive touch screen
Dimension	630 × 430 × 210 mm
Gross weight	28 kg

STANDARD ACCESSORIES

- Cuvettes
- Power cord