UV/VIS SPECTROPHOTOMETER DOUBLE BEAM

Product Description

The LABWAN LWUV-X100 Double Beam UV-Visible Spectrophotometer is a high-performance analytical instrument designed for accurate photometric and spectral measurements from 190–1100 nm. It features a 1 nm bandwidth, double-beam optical system, spectral scanning, multi-wavelength measurement, large colourful LCD display, USB/RS232 connectivity, and advanced software functions for wavelength scanning, kinetics, standard curves, and DNA/Protein analysis.

Features

- With spectral scanning function.
- Can measure up to 6 wavelengths at a single time.
- Large colourful screen for ease; can scan wavelength directly on the device.
- Parallel port & USB port.
- Imported Japanese lamps & sensor results in perfect measurements.

Application/Uses

- Medical/Pharmaceutical
- Industry Environmental Monitoring
- Commodity Inspection
- Food Inspection
- Agricultural Chemistry
- Teaching in Colleges & Universities
- Metallurgy
- Geology
- Machine Manufacturing
- Petrochemical Industries
- Water and Waste Water Labs
- Food and Beverage Labs

Accessories

- Software
- 10 mm Glass Cuvette
- 10 mm Quartz Cuvette
- Instruction Manual
- Power Cord

Factory Units: Unit-1: Dhakoli – 140603 Unit-2: Rampur, Ambala Cantt, Haryana – 133006
Registered Office 1: S.C.O. No. 14, Vasant Vihar Phase 3, Dhakoli, Zirakpur, Punjab –140603
Registered Office 2:Plot No. 576, Industrial Area, Phase 2, Chandigarh – 160002
Website: www.labwan.in / www.labwan.co.in Email: info@labwan.co.in GSTIN: 03CIAPA7432A1Z8

Functions

- Two detectors are used to measure sample and reference respectively and simultaneously.
- Improved Circuit: Improved design prevents circuit fluctuations and stray light to ensure stability of the instrument.
- Sturdy Design: It uses a rigid base to ensure stability & reliability.
- Large Colourful LCD Display: It sports a large display to show results and curves directly on the screen.
- Multi functions in the software enables the user to toggle between variety of functions such as wavelength scanning, standard curve, kinetics, multi wavelength scanning, DNA/protein test.
- Data can be saved in CSV file. Data can be exported to a PC.
- Has a function for filtering & smoothing the peaks of measurement.

PARAMETER	SPECIFICATION
Product Name	Double Beam UV-Visible Spectrophotometer
Model	LWUV-X100
Make	LABWAN
Bandwidth	1 nm
Cell Holder	Sample & reference cuvette holder (both 10mm)
Optical System	Double Beam (1200 lines/mm Grating)
Wavelength Range	190 ~ 1100 nm
Wavelength Accuracy	±0.1 nm @ 656.1 nm, ±0.3 nm (all)
Wavelength Repeatability	±0.2 nm
Scanning Speed	High, Medium, Low (Max. 3000 nm/min)
Photometric Range	-3 ~ 3A, 0~200%T, 0~9999C
Photometric Accuracy (T)	±0.2%T
Photometric Repeatability	0.15%T, 0.001A (0-0.5A), 0.002A (0.5-1A)
Stability	±0.001 A/h (500 nm, preheating for 1 hr)
Photometric Accuracy (A)	≤±0.002A (0~0.5A), ≤±0.004A (0.5~1A), ≤±0.006A (>2.0)
Baseline Flatness & Noise	±0.001A/h, 0.0005A at 500 nm
Stray Light	<0.03%T @ 220 nm, 360 nm
Data Output	USB, RS232
Printer Port	Parallel Port
Display	7" Large Colourful LCD
Lamps	Imported Xenon Lamp
Detector	Silicone Photodiode
Power Supply	AC 220V / 50Hz
Dimensions & Weight	590 × 475 × 250 mm & 20 kg

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