

DOUBLE BEAM SPECTROPHOTOMETER TOUCH SCREEN

▶ Product Description

The LABWAN LUV-1990 Double Beam UV-Visible Spectrophotometer offers a 190–1100 nm range, 1 nm bandwidth, double-beam optics, ± 0.3 nm accuracy and 7" color LCD. It is ideal for spectral scanning, quantitative analysis and routine testing in pharmaceutical, chemical, research and quality-control laboratories.

▶ Features

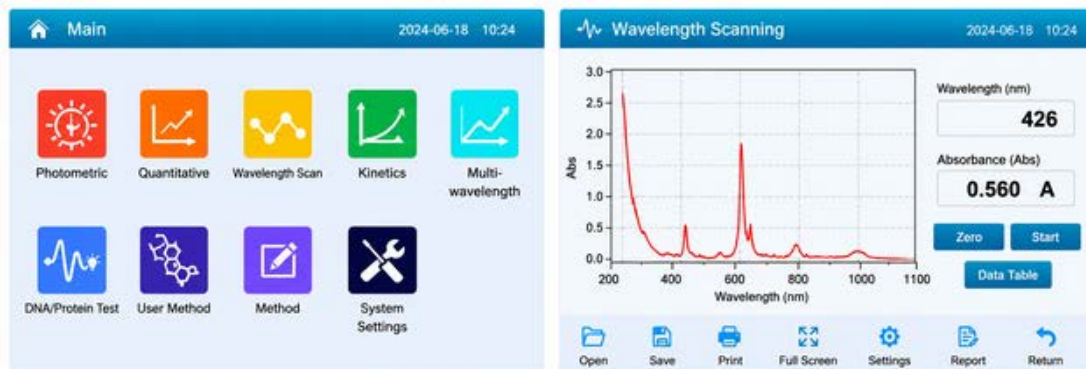
- With spectral scanning function.
- Can measure upto 6 wavelengths at a single time.
- Large colorful screen for ease, can scan wavelength directly on the device.
- Parallel port & USB port.
- Imported Japanese lamps & sensor results in perfect measurements.

▶ 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



Function

► 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	LUV-1990
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	± 0.3 nm
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 (0.5~1 A)
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 500nm
Stray Light	<0.03%T @ 220nm, 360nm
Data Output	USB, RS232
Printer Port	Parallel Port
Display	7" Large Colourful LCD
Lamps	D2 & Tungsten Halogen Lamp
Detector	Silicone Photodiode
Power Supply	AC 220V / 50Hz
Dimensions & Weight	590 x 475 x 250mm & 20 kg