LABTRON

DOUBLE BEAM UV-VIS SPECTROPHOTOMETER LUS-B12

www.labtron.com
info@labtron.com

Double Beam UV-Vis Spectrophotometer LUS-B12

Double Beam UV-Vis Spectrophotometer LUS-B12 is a compact, tabletop unit designed with double beam monochromator, comprising automatic calibration and silicon photocell sensor. Features fixed 2 trench sample holder with 4 quartz and 4 glass cuvettes and 190 to 1100 nm of wavelength range with C-T monochromator and 1200 L/mm holographic grating. Equipped with deuterium lamp and tungsten lamp as light source. Integrated with blue LCD display, Windows based PC control software and USB interface for data transfer.

Features

- Double beam monochromator provides high linearity by ensuring extremely low stray light
- Silicon photocell sensors and automatic calibration function ensures accurate results
- Fixed 2 trench sample holder for easy operation
- 4 quarts and 4 glass cuvettes of 10 mm optical path, for convenient sample handling
- 190 to 1100 nm of wavelength range with C-T monochromator and 1200 L/mm holographic grating
- Deuterium lamp and tungsten lamp as a light source, provides high-resolution
- LCD display, Windows based PC control software and USB interface for data transfer

Application

Double Beam UV-Vis Spectrophotometer is widely used for photometric measurement, spectrum scan, quantitative determination, dynamics measurement, 3D map measurement, multi-wavelength test, DNA/ Protein concentration measurement etc. across factories, schools, metallurgy, agriculture, food industry, biochemistry, and scientific research institutes, etc.

Specifications:

Model	LUS-B12
Wavelength Range	190 to 1100 nm
Spectral Bandwidth	1.8 nm
Optical System	Double beam, C-T monochromator, 1200 L/mm holographic grating
Wavelength Accuracy	±0.3 nm
Wavelength Repeatability	0.2 nm
Wavelength Resolution	0.1 nm
Wavelength Calibration	Automatic calibration after starting up

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Measuring Range	0 to 200% T,-0.301 to 4.000 Abs,-9999 to 9999C,-9999 to 9999 F
Transmittance Accuracy	±0.3% T
Transmittance Repeatability	0.1% T
Light Source	Tungsten lamp, Deuterium lamp
Stray Light	≤0.05% T @ 220 nm, 360 nm
Light Switching Point	294 nm to 365 nm (adjustable)
Display	320×240 mm Blue LCD display
Baseline Flatness	≤±0.001 Abs
Baseline Drift	≤0.0005 Abs / half hour (after warm-up at 500 nm)
Sample Holder	fixed 2 trench sample holder
Cuvette	4 Quartz cuvette (10 mm optical path)
	4 Glass cuvette (10 mm optical path)
Sensor	Silicon photocell
Interface	USB
Output	Digital Signal
PC Software	Yes
Power Supply	220V ± 10% 50 Hz, 85 VA / 110 V ± 10% 60 Hz 85 VA
Dimensions (L×W×H)	545 × 450 × 235 mm
Package Dimension (L×W×H)	660 × 560 × 400 mm
Net Weight	17 kg
Gross Weight	26 kg