







DB30 DOUBLE BEAM UV-VIS SPECTROPHOTOMETER

The DB30 UV-Vis Spectrophotometer is a high performance double beam instrument suitable for many analytical applications where accurate measurements are key to your results.

The DB30 measures absorption and transmission as a function of wavelength and provides a modern, user-friendly and accurate spectrophotometer for a wide range of sample types and measurements.

Utilising a dual lamp and Czerny-Turner configuration monochromator, the DB30 features a compact, reliable and high throughput optical system which ensures impressive spectral performance. It can be configured with PC control software or as a standalone instrument using the touchscreen included in every DB30 unit.

🕗 KEY FEATURES

- > User selectable variable bandpass at 0.5, 1.0, 1.5, 2.0 or 4.0 nm
- Fast scanning up to 6,000 nm/min for high sample analysis throughput
- > Automatic accessory recognition
- > Modern touchscreen interface for full standalone control
- > Optional Visacle[®] software for PC control
- USB, SD card and internal data storage for convenient retrieval of methods and results

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DB30 UV-Vis Spectrophotometer	
Working Environment and Requirements	
Working Temp	10 - 35°C Ambient temperature
Power Supply	100-240 V, 47-63 Hz
Main Specifications	
Optics	Czerny-Turner, Double Beam Monochromator
Wavelength Range	190 nm – 1100 nm
Spectral Bandwidth	0.5 nm, 1 nm, 1.5 nm, 2 nm and 4 nm
Stray Light	≤0.10% (220 nm Nal, 340 nm NaNO₂)
Wavelength Accuracy	±0.1 nm at D2 peak 656.1 nm
Wavelength Repeatability	±0.1 nm
Photometric Range	Absorbance: -3.4 to +3.4, %T: 0 to 300, Concentration: 0.000 to 9,999
Photometric Accuracy	±0.002 Abs (0 - 0.5 Abs), ±0.004 Abs (0.5 - 1.0 Abs), ±0.008 Abs (1.0 - 2.0 Abs), ±0.3% T
Photometric Reproducibility	±0.0003 Abs (0-0.5 Abs), ±0.0005 Abs (0.5-1 Abs), ±0.001 Abs (1.0-2 Abs)
Wavelength Scan Speed	10, 100, 200, 400, 800, 1200, 2400, 3600, 6000 nm/min
RMS Noise	≤0.00003 Abs (0 Abs, 500nm)
Baseline Stability	0.0003 Abs/hr (500 nm, 2 hour lamp warm-up period)
Baseline Flatness	±0.0009 Abs (200 nm - 950 nm)
Light Source	Tungsten-Halogen and Deuterium Lamps
Light Source Switching	Automatic switching selectable for 325 nm - 370 nm range
Detector	Silicon Photodiode
Display	7" Touchscreen
Software	Touchscreen operation, PC-controlled software or CFR compliant PC-controlled software
Dimension (L×D×H)	500 mm (W) \times 475 mm (D) \times 250 mm (H)
Net Weight	20 kg (approx)
Output Device	USB flash drive, SD card
Interface	USB PC interface
Scope of delivery	
Box includes	1 x DB30 Unit 1 x Operation Manual 2 x Quartz Cuvette
After Sales Service	
Warranty	Guaranteed (under normal maintenance) for one year from the date of delivery

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Customer support is available worldwide

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