



# 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



# SPECIFICATIONS

## DB30 UV-Vis Spectrophotometer

### Working Environment and Requirements

Working Temp 10 - 35°C ambient temperature

Power Supply 100-240 V, 50-60 Hz

### Main Specifications

Optics Czerny-Turner, double beam monochromator

Wavelength Range 190 nm – 1,100 nm

Spectral Bandwidth 0.5 nm, 1 nm, 1.5 nm, 2 nm and 4 nm

Stray Light  $\leq 1\%$  (198 nm KCl),  $\leq 0.05\%$  (220 nm NaI, 340 nm NaNO<sub>2</sub>)

Wavelength Accuracy  $\pm 0.1$  nm at D2 peak 656.1 nm,  $\pm 0.25$  nm entire range

Wavelength Repeatability  $\leq 0.1$  nm (max deviation),  $\leq 0.05$  nm (standard deviation)

Photometric Range Absorbance: -3.4 to +3.4, %T: 0 to 300, Concentration: 0.000 to 9,999

Photometric Accuracy  $\pm 0.002$  Abs (0 - 0.5 Abs),  $\pm 0.004$  Abs (0.5 - 1.0 Abs),  $\pm 0.008$  Abs (1.0 - 2.0 Abs),  $\pm 0.3\%$  T

Photometric Reproducibility  $\pm 0.0005$  Abs (0.5 Abs),  $\pm 0.001$  Abs (1.0 Abs),  $\pm 0.004$  Abs (2.0 Abs)

Wavelength Scan Speed 10, 100, 200, 400, 800, 1200, 2400, 3600, 6000 nm/min

Noise 0.0001 Abs (peak-to-peak) 0.00005 Abs (RMS)

Baseline Stability 0.0003 Abs/hr (500 nm, 2 hour lamp warm-up period)

Baseline Flatness  $\pm 0.0009$  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 (LxDxH) 500 mm (W) x 475 mm (D) x 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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