

Biowave II - UV/VIS Spectrophotometer with Life Science Methods

biochrom



- Split Beam (RBC) UV/Vis Spectrophotometer 190-1100nm (3nm/5nm bandwidth)
- Pre-programmed methods for DNA, RNA, Oligos, proteins and cell density
- Nucleic acid scans for purity checking
- Low volume capability with microvolume quartz cells or disposable cells
- Novel optics with a Xenon source for long lamp lifetime and low running costs
- Flexible data export optional accessories include Export to PC software, Wireless Bluetooth[®], built in printer or SD card Method/Data storage.

Built in Life Science Methods

Pre-programmed methodologies for nucleic acid quantification (DNA, RNA and oligo-nucleotides), protein assays (BCA, Biuret, Bradford and Lowry) and for cell culture density measurements. The visualisation of the nucleic acid scan is particularly useful, especially for RNA samples where impurities may be present in the 230 nm region, yet not have an adverse effect on the A260/A280 ratio.

Flexible Data Export Options

Results may be printed to an optional integrated high quality graphical printer for a permanent record. Alternatively results can be exported via a USB cable connection to a suitable PC running Print Via Computer (PVC) software (optional), or wireless Bluetooth® accessory. Alternatively the optional SD card accessory allows laboratories to export to standard SD or SDHC memory cards.

Biowave II - Technical Specifications

Specification	Data
Type	UV/Vis
Wavelength Range	190 - 1100nm
Wavelength Accuracy	(+/-) 2nm
Wavelength Reproducibility	(+/-) 1nm
Lamp Source	Xenon (PTR)
Beam	Split Beam
Optical System	Monochromator Holographic Grating
Bandwidth	5nm (3nm Biowave II+)
Detector	1024 CCD array
Photometric Range	-0.300 to 2.500A
Photometric Accuracy	+/- 0.003A at 0-0.5A at 546nm
Stray Light	0.5%T at 220 & 340nm
Stability	0.001A/h at 340nm
Spectral Scanning	Yes
Measurement Type	Fixed Wavelength (Abs/%T), Abs ratio, concentration (standard curve), concentration (factor), multiwavelength, kinetics, Life Science Methods, cell density
Cell Compatibility	Cuvette 10mm, Microcell*, Ultra Microcell*
Cell Holder	Single Cell
Accessory Options	Printer*
Temperature Control	None
Method Storage	Up to 90
Regulatory Compliance	CE
Printer	Thermal built in*, External via Export*
Data Output	Print*, Store*, Export to PC*
Display	Graphical LCD
Export/ Data Storage	SD card*, Bluetooth*, USB cable*
Data Interface	USB
Languages	English
Power Requirement	90-250 V AC, 50/60Hz, 30VA
Weight	4.5Kg (9.9lb)
Dimensions (WxDxH)	10 x 26 x 39 cm (3.9 x 10.2 x 15.3 inches)
Certification	CE



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