



Biowave 3 & Biowave 3+

WPA Spectrophotometers

The Biowave 3 and 3+ diode array spectrophotometers offer all the benefits associated with the established WPA Biowave range. Predefined life science methods for nucleic acid, protein and microbial culture quantification and analysis, combined with the rapid scanning, kinetics and concentration capabilities, and their compatibility with disposable low volume UV cuvettes have made them a common sight among educational and industrial laboratories alike.

Features & Benefits

- UV/Visible spectrophotometer covering 190 to 1100 nm allows you to see more of your sample
- Save data to a USB flash drive so results can be analysed later
- Builds on the success of the WPA Biowave range, with additional protein fluorescent label quantification and substrate applications
- PVC (Print Via Computer) software is included and allows you to transfer data directly from the instrument to your PC
- Optional integrated printer and wireless Bluetooth® accessories
- At only 3 Kg, the Biowave 3 and 3+ units are easy to move around, making them ideal for teaching laboratories.

Technical Specifications

Technical	
Wavelength Range	190 to 1100 nm
Monochromator	Flat grating
Wavelength Calibration	Automatic upon switch on
Beam Height	15 mm
Spectral Bandwidth	5 nm or 3 nm for '+' models
Wavelength Accuracy	±2 nm
Wavelength Reproducibility	±1 nm
Light Sources	Xenon flash lamp
Detector	Twin CMOS array
Photometric Range	-0.300 to 2.500 A, 0.3 to 199 %T
Photometric Linearity	±1.3 % or ±0.008 A whichever is greater at 546 nm
Photometric Reproducibility	±0.002 A to 0.5 A at 546 nm
Stray Light	<0.5 %T 340 nm
Stability	±0.01 A/h at 340 nm
Noise	±0.005 peak to peak ±0.002 RMS

Technical Specifications

Software	
General Laboratory: Single wavelength Multi wavelength Concentration Standard curve Wavelength scanning Kinetics Absorbance ratio	Life Science Laboratory: Nucleic Acid UV quantification T _m calculation Protein UV quantification Protein colorimetry; BSA, Bradford, Lowry and Biuret Fluorescent label quantification OD600 microbial culture quantification
Digital Output	USB flash drive, PC via PVC software, Optional Bluetooth
Data Export	USB flash drive: .tsv, native PVC format PC via PVC: .csv, .emf, .xlsx, .xls, .rtf, .tsv, native PVC format
Method Storage	90 with PIN number protection
Graphical Display	Yes, zoom and track function
Sample ID	Yes
Languages	English, German, French, Spanish, Italian, Japanese, Chinese
Dimensions	260 × 390 × 100 mm
Weight	3.00 kg

Ordering Information

Order #	Product
80-3007-32	WPA Biowave 3
80-3007-33	WPA Biowave 3 with Printer
80-3007-34	WPA Biowave 3 with Bluetooth
80-3007-35	WPA Biowave 3 with Printer and Bluetooth
80-3007-37	WPA Biowave 3+
80-3007-38	WPA Biowave 3+ with Printer
80-3007-39	WPA Biowave 3+ with Bluetooth
80-3007-40	WPA Biowave 3+ with Printer and Bluetooth