



## Lightwave 3 & Lightwave 3+

### WPA Spectrophotometers

The Lightwave 3 and 3+ diode array spectrophotometers offer all the benefits associated with the established WPA Lightwave range. Predefined methods for rapid scanning, kinetics and concentration capabilities, a variable pathlength cell holder up to 40 mm 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 Lightwave range
- 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 accessories

## Technical Specifications

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

## Technical Specifications

Software	
<b>Applications</b>	Single wavelength Multi wavelength Concentration Standard curve Wavelength scanning Kinetics Absorbance ratio
<b>Digital Output</b>	USB flash drive, PC via PVC software, Optional: Wireless
<b>Data Export</b>	USB flash drive: .tsv, native PVC format PC via PVC: .csv, .emf, .xlsx, .xls, .rtf, .tsv, native PVC format
<b>Method Storage</b>	90 with PIN number protection
<b>Graphical Display</b>	Yes, zoom and track function
<b>Sample ID</b>	Yes
<b>Languages</b>	English, German, French, Spanish, Italian, Japanese, Chinese
<b>Dimensions</b>	260 × 390 × 100 mm
<b>Weight</b>	3.00 kg

## Ordering Info

Order #	Product
80-3007-42	WPA Lightwave 3
80-3007-43	WPA Lightwave 3 with Printer
80-3007-44	WPA Lightwave 3 Wireless
80-3007-45	WPA Lightwave 3 Wireless with Printer
80-3007-47	WPA Lightwave 3+
80-3007-48	WPA Lightwave 3+ with Printer
80-3007-49	WPA Lightwave 3+ Wireless
80-3007-50	WPA Lightwave 3+ Wireless with Printer





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**Pricing on any accessories shown can be found by keying the part number into the search box on our website.**

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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Please contact us if this literature doesn't answer all your questions.