

# Libra S4+ Spectrophotometer



## FEATURES & BENEFITS:

- **Visible spectrophotometer covers 325-1100 nm allows you to see more of your sample**
- **Ideal for basic spectrophotometric measurements, is great for entry level use**
- **Save data on a USB and results can be analyzed later**
- **PVC (Print Via Computer) software is included and allows you to transfer data directly from the instrument**

Ease of use and low maintenance are just some of the benefits of the Libra S4+— a flexible visible spectrophotometer suitable for a wide range of applications.

Its small footprint makes it ideal for laboratories where space is at a premium and its rugged lightweight construction with no moving parts makes it both portable and highly reliable.

Great functionality such as the automatic calibration at start-up gives you the confidence you need in your measurements. With no lid or moving parts, this robust instrument is easy to use, clean and store.

Conveniently save your data to a USB memory stick or transfer immediately to your PC using the PVC (Print Via Computer) software, supplied as standard and export your data to Excel™ and other formats.

Increase your measurement flexibility with the optional test tube cell holder which allows you to measure 10 to 18 mm test tubes. The standard cell holder accepts 10 mm glass and disposable cuvettes and is easily removed for cleaning. An optional thermostatted cell holder is also available giving you the added capability of measurements at 37°C.



## SPECIFICATIONS

### Technical

<b>Wavelength Range</b>	325 - 1100 nm
<b>Monochromator</b>	Flat grating
<b>Wavelength Calibration</b>	Automatic upon switch on
<b>Spectral Bandwidth</b>	<7 nm
<b>Wavelength Accuracy</b>	± 2 nm
<b>Wavelength Reproducibility</b>	± 1 nm
<b>Light Sources</b>	Pulsed tungsten halogen
<b>Detector</b>	CMOS array
<b>Photometric Range</b>	- 0.300 to 2.500A, 0.3 to 199%T
<b>Photometric Linearity</b>	± 0.010A or ± 2.0 % whichever is the greater between 0 and 1.500A at 546 nm
<b>Photometric Reproducibility</b>	< 0.002A at 0A and 500 nm
<b>Stray Light</b>	< 1%T at 340 nm
<b>Stability</b>	± 0.005A/H at 0A and 546 nm after warm-up
<b>Noise</b>	< 0.002A RMS at 0A and < 0.003A RMS at 1A both at 600 nm
<b>Digital Output</b>	USB memory stick data storage USB PC connection with PVC software
<b>Dimensions (W x H x D)</b>	325 x 133 x 225 mm
<b>Weight</b>	1.6 kg
<b>Power Input</b>	90-265 V, 50/60 Hz, 15 VA
<b>Warranty</b>	1 year
<b>Regulatory</b>	CE

### Software

<b>Applications</b>	Single wavelength absorbance Single wavelength % transmittance Concentration with factor Concentration with single standard Kinetics
<b>Method Storage</b>	72 with pin number protection
<b>Graphical Display</b>	Yes, Zoom and Track Function
<b>Sample ID</b>	Yes
<b>Units</b>	Yes, Multiple options, including user defined
<b>Languages</b>	English, German, French, Spanish, Italian, Japanese, Chinese
<b>Data Storage</b>	USB memory stick in PVC or ASCII formats
<b>Data Export</b>	PC via USB cable USB memory stick
<b>PC Software</b>	Print Via Computer

## ORDERING INFORMATION

Order #	Product
<b>80-5001-00</b>	Libra S4+ Spectrophotometer includes the unit, PVC software, sample 8/pk of disposable cuvettes, dust cover, USB cable for PC connection, 18V power supply with EU,UK,US and Japan power cords
<b>80-3007-12</b>	Test Tube Cell Holder
<b>80-3007-13</b>	Heated Cell Holder

