

The Vision diode array spectrophotometer offers predefined methodologies for nucleic acid quantification (DNA, RNA, and oligonucleotides), protein assays (BCA, Biuret, Bradford, and Lowry) and for cell culture density measurements. The visualization 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.

The combination of the life science methods with the rapid scanning, kinetics, and concentration capabilities of the Vision make it a very useful addition to any molecular biology laboratory. In kinetics mode, the basic plot of absorbance against time may be supplemented with the result for $\Delta A/\text{min}$ plus the correlation coefficient is also calculated for the duration of the assay. This slope may be multiplied automatically by a factor to convert it directly to rate of reaction.

Advantages

- Novel Gifford optics for high energy combined with a Xenon source for long lamp lifetime
- Simple selection software– with stored methods for life science applications
- Wavelength scanning, kinetics, and concentration functionality with full graphics display
- Nucleic acid scans for purity checking
- Integrated printer (option)
- Wireless Bluetooth connectivity (option)
- Unique, integral cuvette tray for storage of expensive cells and support of valuable samples
- Compatible with disposable low volume UV cuvettes



Specification

Model	SP2001 SERIES
Lamp Source	Xenon
Optical System	Dual Channel Monochromator
Wavelength Range	190-1100 nm
Wavelength Accuracy	± 2 nm
Bandwidth	5 nm
Absorbance Range	-0.3 to 2.5 A
Photometric Reproducibility	± 0.002 A at 0-0.5 A, 546 nm
Photometric Accuracy	± 0.003 A at 0-0.5 A
Stray Light	0.5%T at 22 and 340 nm
Outputs	USB (Standard), Bluetooth (Option)
Dimensions (w x h x d)	26 x 10 x 39 cm
Weight	6 kg
Safety Certifications	EN61010-1, CE