



## Spectrophotometer

SP-V1000/SP-UV1000/SP-V1100/  
SP-UV1100

Spectrophotometer is essential in the identification and quantification of different compounds in solutions by measuring the intensity of wavelengths in a spectrum of light compared with the intensity of light from a standard source.

These measure the absorbance, % transmittance and concentrations of samples and are hence best suitable in many areas of science including metallurgy, geology, physical chemistry, pharmaceutical chemistry, forensic physics, biotechnology and microbiology etc.



### LCD Digital display with consistent interface design

Uniform operation steps with easy to set and program LCD digital display guarantees smooth flowing procedures. Data is displayed in graphical format on wide LCD display (128 x 64dots).

### Automatic wavelength calibration.

**Data Storage:** These can save and display 200 groups of data, data can also be restored after power failure.

**Auto selection** of tungsten/ deuterium lamps which are suitable for a wavelength range of 190-1100nm.

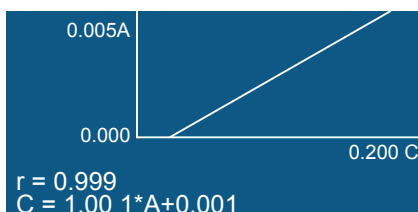
**'Wave Professional' Software:** The optional 'Wave Professional' Software and built in USB port, enables to connect and control the spectrophotometer through PC along data documentation of other quantitative analysis reports.

A wide range of sample holder optional accessories to accommodate the cuvettes in 5-100nm path length range.

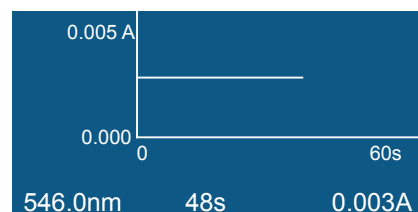
### Basic Mode

546.0nm		0.001A
No.	WL.	Abs.
1	230.0	0.001
2	340.0	0.000
3	450.0	0.002
4	540.0	0.000
5	620.0	0.003

### Quantitative



### Kinetics





Model	SP-V1000	SP-UV1000	SP-V1100	SP-UV1100
Optical System	Single Beam	Single Beam	Single Beam	Single Beam
Light Source	Tungsten lamp	Tungsten lamp & Deuterium lamp	Tungsten lamp	Tungsten lamp & Deuterium lamp
Spectral Bandwidth	4.0nm	4.0nm	2.0nm	2.0nm
Wavelength Range	325-1000nm	200-1000nm	320-1100nm	190-1100nm
Wavelength Accuracy	±2nm	±2nm	±0.5nm	±0.5nm
Wavelength Repeatability	≤1nm	≤1nm	≤0.3nm	≤0.3nm
Photometric Range	-0.3 - 3.0 A, 0 - 200%T	-0.3 - 3.0 A, 0 - 200%T	-0.3 - 3.0 A, 0 - 200%T	-0.3 - 3.0 A, 0 - 200%T
Photometric Accuracy	±0.003 A @ 0.5 A, ±0.006 A @ 1.0 A, ±0.5%T @ 100%T	±0.003 A @ 0.5 A, ±0.006 A @ 1.0 A, ±0.5%T @ 100%T	±0.002 A @ 0.5 A, ±0.004 A @ 1.0 A, ±0.3%T @ 100%T	±0.002 A @ 0.5 A, ±0.004 A @ 1.0 A, ±0.3%T @ 100%T
Photometric Repeatability	≤0.0015 A @ 0.5 A, ≤0.003 A @ 1.0 A, ≤0.25%T @ 100%T	≤0.0015 A @ 0.5 A, ≤0.003 A @ 1.0 A, ≤0.25%T @ 100%T	≤0.001 A @ 0.5 A, ≤0.002 A @ 1.0 A, ≤0.15%T @ 100%T	≤0.001 A @ 0.5 A, ≤0.002 A @ 1.0 A, ≤0.15%T @ 100%T
Stability	≤0.002 A/h @ 500 nm (after preheat 2 hours)	≤0.002 A/h @ 500 nm (after preheat 2 hours)	≤0.002 A/h @ 500 nm (after preheat 2 hours)	≤0.002 A/h @ 500 nm (after preheat 2 hours)
Stray Light	≤0.2%T @ 360nm	≤0.2%T @ 220&360nm	≤0.05%T @ 360nm	≤0.05%T @ 220 & 360nm
Sample Compartment	4-position, 10mm pathlength cuvette	4-position, 10mm pathlength cuvette	4-position, 10mm pathlength cuvette	4-position, 10mm pathlength cuvette
Display	LCD	LCD	LCD	LCD
Output	USB Port & Parallel Port (Printer)	USB Port & Parallel Port (Printer)	USB Port & Parallel Port (Printer)	USB Port & Parallel Port (Printer)
Power	110/220VAC, 50/60Hz, 80W	110/220VAC, 50/60Hz, 120W	110/220VAC, 50/60Hz, 80W	110/220VAC, 50/60Hz, 120W
Dimension(L×W×H)	490×360×210mm	490×360×210mm	490×360×210mm	490×360×210mm
Weight	10kg	12kg	10kg	12kg



**Cat. No.** 18900337  
Micro Cell holder



**Cat. No.** 18900340  
8-position auto cell changer  
(for SP-V1100&SP-UV1100)



**Cat. No.** 18900331  
4-cell holder for 10mm squ.cuvette



**Cat. No.** 18900332  
4-cell holder for 10mm  
to 50mm squ. cuvette



**Cat. No.** 18900333  
4-cell holder for up to  
100mm squ.cuvette



**Cat. No.** 18900338  
Test tube holder(ø8-ø22mm)



**Cat. No.** 18900334  
cylindrical cell holder(ø16mm)



**Cat. No.** 18900339  
solid sample holder  
(ø1.5-3mmø1 position)



**Cat. No.** 18900335  
10mm water-jacketed 1 cell holder  
(for SP-V1100 & SP-UV1100)



**Cat. No.** 18900336  
10mm water-jacketed 4-cell holder  
(for SP-V1100 & SP-UV1100)



Square cuvettes glass/quartz  
1-5mm/10-100mm



**Cat. No.** 18900341  
12V20W halogen lamp

**Cat. No.** 18900342  
Milas deuterium lamp,10V,300mA, 30W  
(for SP-UV1000&SP-UV1100)