

# Spectrophotometer

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

## Features

- Saves up to 200 group data & 200 standard curves
- Data can be restored even after a sudden power failure
- Auto setting of wavelength to calibrate the system
- Wavelength range from 190 to 1100nm
- Automatic Switching between Tungsten & Deuterium lamps
- System is fully equipped and capable of executing all functions in stand-alone mode
- Large sample for accommodate 5 – 100mm path length cuvettes with optional holders
- Optional application software 'Wave Professional' provides computer control , and other functions such as spectrum scan, time scan(kinetics), multiwavelength scanning & Nucleic Acid / Protein measurement. (SP-V1100/SP-UV1100)
- Wide range of accessories are available



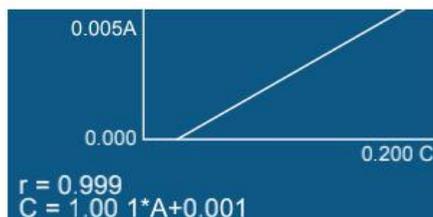
## Applications

Our Spectrophotometer range is highly recommended for live display of ABS & %T, Quantitative analysis (Beer's Law), Reaction monitoring, Colorimetric analysis, Kinetic experiments, Protein and DNA assays, DNA & RNA quantification, Protein quantification and many more application in Advanced teaching labs; Industrial, Pharmaceutical, Life Science & Biotechnology research QA/QC labs.

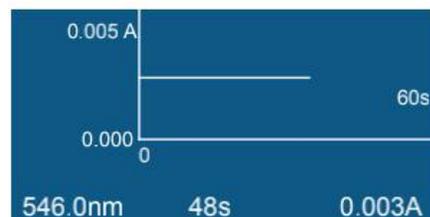
Basic Mode

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 @ 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	12kg	14kg	12kg	14kg





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)