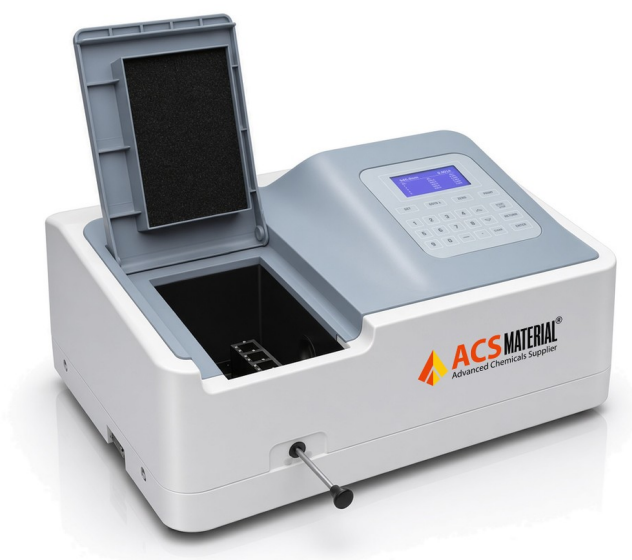


TECHNICAL DATA SHEET

ALab™ SP-V1000/SP-UV1000/SP-V1100/SP-UV1100 UV-Visible Spectrophotometer

UV-Visible Spectrophotometers • 4 single beam models • up to 190–1100 nm



ALab™ SP-V1000/SP-UV1000/SP-V1100/SP-UV1100 UV-Visible Spectrophotometer

The ALab™ SP-V1000 series spectrophotometer (one photo for all four models). Image shown for reference.

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SECTION I

Product Overview

The ALab™ SP-V1000, SP-UV1000, SP-V1100 and SP-UV1100 are single beam UV-visible spectrophotometers with a dot matrix LCD. The host can independently complete photometric measurement, quantitative test and kinetics measurement; up to 128 sets of standard curves and 4000 test data can be saved.

SP-V1000 and SP-V1100 use a tungsten lamp; SP-UV1000 and SP-UV1100 add a deuterium lamp. Wavelength ranges 325–1000nm, 200–1000nm, 320–1100nm and 190–1100nm; spectral bandwidth 4.0nm (1000 models) or 2.0nm (1100 models).

SECTION II

Core Advantages

- **Models** — SP-V1000 / UV1000 / V1100 / UV1100
- **Optics** — single beam
- **Data** — 128 curves, 4000 data
- **Range** — up to 190–1100 nm
- **Display** — dot matrix LCD
- **Output** — USB + parallel port

SECTION III

Specifications

Technical data — SP-V1000 · SP-UV1000 · SP-V1100 · SP-UV1100

Specifications	
Brand	ALab™ by ACS Material
Model	SP-V1000, SP-UV1000, SP-V1100, SP-UV1100
SKU #	ALSP1000
Product Type	UV-visible spectrophotometer, single beam
Display	Dot Matrix LCD
Photometric range	-0.3–3.0 A, 0–200%T
Sample compartment	Manual 4-position 1cm holder (standard for single beam)
Output	USB Port & Parallel Port (Printer)
Dimension[L×W×H]	475×360×225mm
Accessory	18204261 — micro-volume cell holder
Accessory	18204257 — 4 position cell holder(100mm)
Accessory	18204255 — 4 position cell holder(10mm)
Accessory	18204256 — 4 position cell holder(10-50mm)
Accessory	18204262 — Tube rack(ø8-ø22mm)
Accessory	18204268 glass / 18204277 quartz — Cuvette glass/quartz
Accessory	18204265 — Tungsten lamp
Accessory	18204266 — Deuterium lamp
Accessory	18204263 — Solid Specimen Holder
Accessory	1820434 — Bluetooth thermal printer
Accessory	18901116 — 4 position cell holder(10mm)
Accessory	18204258 — cylindrical cell holder(ø16mm)
Accessory	18204260 — 10mm water-jacketed 4-cell holder (for SP-V1100 & SP-UV1100)

Specifications by model — SP-V1000 • SP-UV1000 • SP-V1100 • SP-UV1100

Specifications by model				
Parameter	SP-V1000	SP-UV1000	SP-V1100	SP-UV1100
Optical System	Single Beam	Single Beam	Single Beam	Single Beam
Light Source	Tungsten Lamp (Japan HYBEC)	Tungsten Lamp (Japan HYBEC) Deuterium Lamp (Milaras)	Tungsten Lamp (Japan HYBEC)	Tungsten Lamp (Japan HYBEC) Deuterium Lamp (Milaras)
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	Manual 4-position 1cm holder (standard for single beam)	Manual 4-position 1cm holder (standard for single beam)	Manual 4-position 1cm holder (standard for single beam)	Manual 4-position 1cm holder (standard for single beam)
Display	Dot Matrix LCD	Dot Matrix LCD	Dot Matrix LCD	Dot Matrix LCD
Output	USB Port & Parallel Port (Printer)	USB Port & Parallel Port (Printer)	USB Port & Parallel Port (Printer)	USB Port & Parallel Port (Printer)
Power Requirements	110/220VAC, 50/60Hz, 80W	110/220VAC, 50/60Hz, 120W	110/220VAC, 50/60Hz, 80W	110/220VAC, 50/60Hz, 120W
Dimension[L×W×H]	475×360×225mm	475×360×225mm	475×360×225mm	475×360×225mm
Weight	11kg	14.6kg	11kg	14.6kg

SECTION IV

Applications

Photometric and quantitative measurement, kinetics, protein or DNA detection, DNA and RNA quantification and protein quantification; used in medicine and health, clinical testing, biochemistry, petrochemical industry, environmental protection testing, food hygiene and quality control, and for teaching demonstrations.

Product value: four single beam models with a dot matrix LCD, automatic wavelength calibration and dark current correction, automatic light source switching, real-time data saving and a range of accessories. Select the model before ordering.

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