

Spectrophotometer

**UV-VIS Spectrophotometer
AE-S90 Series**



UV-VIS Spectrophotometer S90 Series

AE-S90 Series are wide screen double beam spectrophotometer. Its integrated design assures long term stability and durability. The highly stable optics and one or two detectors measure the sample and reference simultaneously optimising measurement accuracy. It has measurement modes for photometrics, concentration, multi-wavelength, spectrum scanning, kinetics, quantitation, DNA and protein analysis. The PC software is supplied as standard and offers additional functionality with preloaded methods for DNA and protein analysis, as well as extensive post-measurement tools, unlimited results saving and easy export of data.

Features:

- ◆ Double beam AE-S90 spectrophotometer with highly stable optics.
- ◆ Extremely versatile with full functionality from 190 to 1100nm.
- ◆ Variable spectral bandwidth 0.5, 1, 2, 4,5nm.
- ◆ 2 or 8 cell holder AE-S90/ 4 or 8 cell holder AE-S80
- ◆ 6 inches LCD display & integrated user interface.
- ◆ USB port for data storage.
- ◆ ISO/CE Certificate passed.
- ◆ A & E Lab PC software included as standard.
- ◆ Extensive range of accessories available.

Order Model:

Order Code	Description	
AE-S90-MD	Double beam ,Large screen, 2 Single Cell holder	Bandwith: 0.5/1.0/2.0/4.0/5.0nm, with PC software.
AE-S90-1D		Bandwith: 1nm, with PC software.
AE-S90-2D		Bandwith: 1.8nm, with PC software.

Technical Specifications:

Wavelength	
Wavelength Range	190-1100nm
Wavelength Accuracy	±0.3nm
Wavelength Repeatability	0.2nm
Bandwith	1nm/1.8nm/0.5,1,2,4,5nm
Photometric	
Accuracy	±0.3%T
Photometric Repeatability	0.2%T
Photometric Display Range	-0.3-3A,0-200%T,0-9999C
Stability	AE-S90 : ± 0.001A/h @ 500nm
Baseline Flatness	±0.001A
Noise	±0.001A
Stray Light	≤0.05%T @220nm, 360nm
Others	
Data Output Port	USB
Printer Port	Parallel Port
Optical System	Double Beam (1200 lines/mm grating)
Display	LCD (320x240 Dots)
Lamps	Deuterium & Tungsten Halogen Lamp
Detector	Silicon Photodiode
Software	UV PC Software
Power Supply	AC 220V/50Hz, 110V/60Hz.
Packing Size & Gross Weight	860x660x465mm & 35kg

Spectrophotometer Optional Accessories

Controller



Peltier system or Thermostat controller:

- ◆ The best working temperature range is 16-30°C and the humidity is 45-80%.
- ◆ The requirement of power supply is 220±22V@50±1Hz or 110±11V@60±1Hz.
- ◆ 3. Suitable for all models, but we suggestion using by the model: AE-S90 Series, AE-S80 Series, AE-S70 Series.



Sipper system or Auto sampler (for sampling the sample):

Suitable for all models, but we suggestion using by the model: AE-S90 Series, AE-S80 Series, AE-S70 Series. It should be using flow cuvette.



Peltier/Sipper system or Auto thermostat sampler (control temperature + sampling sample):

1. Include controller 1pc, Cell holder with Peltier System 1pc, (It's already pre-loaded into the compartment of the spectrophotometer), Control Cable 1pc (to connect the Control Unit with the Cell holder with Peltier System), Peristaltic pump pipe 1pc, Power cable 1pc.
2. Suitable for all models, but we suggestion using by the model: AE-S90 Series, AE-S80 Series, AE-S70 Series.



Controller with pipe



Backside of Spectrophotometer



Spectrophotometer Sample Room

Spectrophotometer Optional Accessories

Cuvette Holder

		
<p>8 cells 10mm auto cuvette holder: Suitable for the model: AE-S90 Series, AE-S80 Series, AE-S70-1U, AE-S70-1UPC.</p>	<p>8 cells 10mm manual cuvette holder: Suitable for the model: AE-S90 Series, AE-S80 Series, AE-S70 Series, AE-S60-2U.</p>	<p>4 cells 50mm cuvette holder: Suitable for the model: AE-S80 Series, AE-S70 Series, AE-S60 Series, AE-S50 Series. If using for AE-S90 Series, only can be main light path, cannot as reference light path.</p>
		
<p>4 cells 100mm cuvette holder: Suitable for the model: AE-S80 Series, AE-S70 Series, AE-S60 Series, AE-S50 Series.</p>	<p>4 cells 10mm cuvette holder: Suitable for all model. If using for AE-S90 Series, only can be main light path, cannot as reference light path.</p>	<p>10mm single hole water jacketed ambient cuvette holder: Suitable for the model: AE-S80 Series, AE-S70 Series, AE-S60 Series, AE-S50 Series.</p>
		
<p>10mm adjustable cell holder for micro cuvette: Suitable for AE-S90 series, AE-S80 Series, AE-S70 Series, but when using this holder, it should be using micro cuvette.</p>	<p>Integrating Sphere: Only suitable for the model: AE-S90-MD, AE-S90-2D.</p>	<p>Test tube holder: Suitable for the model: AE-S90 Series, AE-S80 Series, AE-S70 Series. If using for AE-S60-4U and AE-S60-4V, the tube length cannot over 8cm.</p>

Lamps

Halogen Tungsten Lamp
(Life 1500hours,
12V, 20W Phillips)



Deuterium Lamp
(Life:1000hours,
A510YXU Milas)



Cuvette:

1. Glass Cuvette



Model	UVG-601	UVG-602	UVG-603	UVG-604	UVG-605	UVG-606	UVG-607
Volume	1.7ml	3.5ml	7ml	10.5ml	14ml	17.5ml	35ml
Path length	5mm	10mm	20mm	30mm	40mm	50mm	100mm

2. Quartz Cuvette



Model	UVQ-701	UVQ-702	UVQ-703	UVQ-704	UVQ-705	UVQ-706	UVQ-707
Volume	1.7ml	3.5ml	7ml	10.5ml	14ml	17.5ml	35ml
Path length	5mm	10mm	20mm	30mm	40mm	50mm	100mm

3 Micro cuvette

Model	UVM-801	UVM-802	UVM-803	UVM-804
Volume	100ul	200ul	500ul	700ul



External micro-printer

