



# AE-S70 Series

## UV VIS Spectrophotometer



### Key Features

- Single beam spectrophotometer with highly stable optics.
- Extremely versatile with full functionality UV range: 190 to 1100nm, VIS range: 320-1100nm.
- Spectral bandwidth 1.8 & 2nm.
- 6 inches & compact LCD display. Integrated user interface.
- USB port for data storage.
- ISO/CE Certificate passed.
- A & E Lab PC software available.
- Extensive range of accessories available.

### Applications

AE-S70 Series spectrophotometers have the most attractive cost performance. It is widely used in colleges and enterprises for general quantitative analysis and experiments.

- The instrument use a lead screw structure so that the instrument wavelength accuracy and wavelength resolution can be greatly improved.
- 8mm thick optical base: the instrument use a rigid die-cost aluminum base as its optical mount to ensure instrument stability and reliability.
- It can set up various standard curves according to customers solutions and find the concentration of unknown solutions.

### Ordering Information

Order Code	Description
AE-S70-1U	Large screen, single beam, 4 cell holder, 190-1100nm, Bandwidth: 1.8nm.
AE-S70-1UPC	Large screen, single beam, 4 cell holder, 190-1100nm, Bandwidth: 1.8nm., with PC software.
AE-S70-2U	Compact screen, single beam, 4 cell holder, 190-1100nm, Bandwidth: 2nm.
AE-S70-2UPC	Compact screen, single beam, 4 cell holder, 190-1100nm, Bandwidth: 2nm, with PC software.
<b>AE-S70 Series Visible Spectrophotometer</b>	
AE-S70-2V	LCD display, 320-1100nm, bandwidth: 2nm, wavelength accuracy: $\pm 0.5$ nm.
AE-S70-2VPC	LCD display, 320-1100nm, bandwidth: 2nm, wavelength accuracy: $\pm 0.5$ nm, with PC software.

### Technical Specifications

Wavelength		Photometric	
Wavelength Range	UV Range: 190-1100nm Visible Range: 320-1100nm	Photometric Accuracy	$\pm 0.3\%T$
Wavelength Accuracy	$\pm 0.5$ nm	Photometric Repeatability	0.2%T
Wavelength Repeatability	$\pm 0.3$ nm/ $\pm 0.2$ nm	Photometric Display Range	0-200%T, -0.3-3.0A, 0-9999C
Bandwidth	1.8nm/2nm	Stability	0.002A/h @ 500nm
Others		Baseline Flatness	$\pm 0.002A/\pm 0.0015A$
Data Output Port	USB	Noise	$\pm 0.001A$
Printer Port	Parallel Port	Stray Light	$\leq 0.05\%T$ @220nm, 360nm
Optical System	Single Beam (1200 lines/mm grating)		
Display	LCD (320X240/128X64 Dots )		
Detector	Silicon Photodiode		
Lamps	Deuterium & Tungsten Halogen Lamp		
Power Supply	AC 220V/50Hz, 110V/60Hz.		
Packing Size & Weight	680X590X420mm & 23kg		