

AE-SP8000 & AE-SP9000 Double Beam UV Visible Spectrophotometer ISO/CE

Product Introduction:

These instruments are equipped with advanced mobile touchscreen technology, allowing users to operate the device while holding it, meeting the demands of mobile testing. With over twenty years of experience in the UV - visible spectrophotometer industry, our products excel in optical system design, mechanical structure design, electronic circuit design, software interface and function design, as well as product manufacturing, quality control during production, and efficient after - sales service, placing us at the forefront of the industry.



Primary Application Areas:

Widely used in pharmaceuticals, food safety, biochemistry, cosmetics, environmental monitoring, agriculture, forestry, animal husbandry, optical materials, petrochemicals, and other fields, the T9 series spectrophotometers are high - end analytical instruments commonly used in laboratories.

Product Features:

- ◆ **High Stability:** Utilizing the Czerny - Turner double - beam optical system and an integrated 12mm aerospace - grade aluminum optical mounting platform to ensure long - term data stability. Instrument drift is less than 0.0006 Abs.
- ◆ **High Precision:** Equipped with precision screw - drive optics, ensuring wavelength accuracy of less than 0.3, transmittance accuracy of less than 0.3%. The instrument achieves accuracy levels equivalent to Class I.
- ◆ **User - Friendly:** Features a 10 - inch - large capacitive touchscreen, an Android - based navigation menu operating system, and Bluetooth data transmission for graphical display. Includes built - in specialized programs for photometric measurements, quantitative measurements, qualitative measurements, time measurements, DNA/protein measurements, and multi - wavelength measurements. Offers 32GB of internal memory and supports data output via USB, Email, U - disk, and Wi - Fi printing.
- ◆ **Easy Maintenance:** The lamp chamber is easily accessible, allowing for convenient replacement of deuterium and tungsten lamps. The spacious sample chamber can accommodate various accessories and devices.
- ◆ **Versatile Accessories:** Various optional accessories are available, including a 1 - 10cm single - slot long optical path cuvette rack, automatic sample rack, water bath constant temperature sample rack, Peltier constant temperature sample rack, peristaltic pump automatic sampler, water bath constant temperature sampler, integrating sphere diffuser device, 5° mirror reflection device, and more.

Specifications:

Mode	AE-SP8000	AE-SP9000
Optical System	Double beam with 1200 lines/mm grating	
Wavelength range (nm)	190 - 1100	
Spectral Bandwidth (nm)	1	0.5/1/2/4/5 (variable)
Wavelength Accuracy (nm)	±0.3	
Wavelength Repeatability (nm)	≤0.1	
Transmittance Accuracy (%T)	≤0.3	
Transmittance Repeatability (%T)	≤0.2	
Stray Light (%T)	≤0.03 @220nm @ 360nm	
Noise (%T)	0%≤0.05; 100%≤0.1	
Drift (Abs)	≤0.0008	
Baseline fitness (Abs)	±0.0008	
Spectral Range	0 - 200%T, - 0.301 - 4A, 0-9999C (0-9999F)	
Test Mode	Abs Trans Reflectance Energy	
Light Source	Tungsten lamp & Deuterium lamp	
Monitor	10.1" LCD with touch panel	
OS & Language	Android/Chinese/English	
Data Output	USB1.1, Email, U disk, WiFi	
Data Format	CSV, PDF	
Memory	32GB (256 GB extended)	
Power Supply	AC90 - 250V/50 - 60Hz	
Size (L×W×H) mm	650×510×210	
Weight (kg)	29	30