



SOLAR 800 Series

UV/VIS Spectrophotometer



LABORATORY



Description

- High Accuracy: Using grating micrometer level precision screw drive to ensure the accuracy of wavelength $<\pm 0.3\text{nm}$; Transmittance of accuracy reaches $\pm 0.3\%$.
- Convenience for use: 5.7 inch graphic LCD display. Spectrum curve be clear at a glance and easy to operate. There is quantitative analysis, qualitative analysis, kinetics test, DNA/RNA, multi-wavelength analysis in special purpose testing program.
- Service life durable: Imported Halogen lamp ensures the light source for up two years of life, receiver life for 20 years.
- Wide application fields: Optional Equipped with Peltier/sipper unit, with Micro cell holder, with (5° incident angle) Reflectance measurement attachment etc. expands the application areas of more.

Function of products

- Photometric measurement: Convenience to measure samples in the specified wavelength absorbance and transmittance. Multi-wavelength detector is maximum simultaneous determination of 10 wavelengths.
- Quantitative measurement: Establish automatically standard curve, first-order \ first after we order the third order curve fitting. Optional method: Single wavelength calibration, Double wavelength calibration, Three point method.
- Qualitative measurement: Including scaling, smoothing, filtering, detecting peak-valley etc.
- Kinetics measurement: Calculate kinetics of enzyme reaction rate. There are scaling, smoothing, filtering, detecting peak-valley and finding the derivative in a variety of graph processing methods for your choice.
- DNA/RNA, Test function of protein calculates automatically the sample ratio and concentration.

Features

Model	SOLAR 800D	SOLAR 800A	SOLAR 800S
Optical System	Double Beam, Grating 1200 line/mm		
Wavelength Range	190~1100nm		
Spectral Bandwidth	1.8nm	1nm	0.5/1/2/4/5nm
Wavelength Accuracy	$\pm 0.3\text{nm}$		
Wavelength Repeatability	$\pm 0.1\text{nm}$		
Photometric Accuracy	$\pm 0.3\%T$; $\pm 0.0015\text{Abs}$ (0~0.5Abs); ± 0.003 (0.5-1.0Abs)		
Photometric Repeatability	$\pm 0.1\%T$; $\pm 0.001\text{Abs}$ (0~0.5Abs); ± 0.002 (0.5-1.0Abs)		
Stray Light	$\leq 0.03\%T$, @220nm/360nm		
Noise Level	$\pm 0.0008\text{Abs}$		
Stability	$\pm 0.0008\text{A/h}$ @500nm		
Baseline Flatness	$\pm 0.0008\text{Abs}$		
Baseline Dark Noise	0.05%T		
Photometric Range	0~200%T, -4~4A, 0~9999C(0-9999F)		
Light Source	Tungsten & Deuterium Lamp(Pre-aligned)		
Scan Speed	Hi, MED., LOW., MAX.3600nm/min		
Display	320x240 Dots Array Graphic LCD		
System Language	English		
Output	USB1.1 Connecting to computer & Parallel port for printer		
Power Requirement	AC90~250V/ 50~60Hz		
Dimensions(LxWxH)	650x500x210		
Weight	28kg	28kg	29kg



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