



SOLAR 600TU

UV-visible spectrophotometer



LABORATORY



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UV-Visible Spectrophotometer



Features

- High stability: the integrated structure design (8mm heat-treated aluminum alloy base) ensures the long-term reliability and stability of the instrument.
- High precision: The micrometer-level precision screw is used to drive the grating to ensure that the wavelength accuracy is $< \pm 0.5 \text{ nm}$; the transmittance accuracy is $\pm 0.3\%T$, and the accuracy reaches the class II level.
- Easy to use: large-screen liquid crystal display, map, curve at a glance, simple and convenient operation, quantitative, qualitative, kinetic, DNA/RNA, multi-wavelength analysis and other special test programs.
- Long service life: The original imported deuterium lamp and tungsten lamp ensure the lifespan of up to 3 years and the life of the receiver up to 20 years.

- Various accessories: automatic sample aspirator, micro cell holder, integrating sphere diffuse reflection, 5° specular reflection and other accessories to meet special requirements and applications.
- Cuvette holder with long optical path: no less than 5 kinds of cuvette including 20mm can be selected.

*Optional PC-side anti-control software will realize more application functions

Product

- Working mode: absorbance, % transmittance, concentration, energy
Photometric measurement: It is convenient to measure the absorbance and transmittance of the sample at the specified wavelength, and the fixed-point test can test up to 10 wavelengths at the same time.
- Quantitative measurement: automatic establishment of standard curve, first-order/first-order zero-crossing, second-order, third-order curve fitting, single-wavelength calibration, dual-wavelength calibration, optional three-point method, and standard curve can be stored and recalled.
- Qualitative measurement: scanning speed is 3500nm/min, and there are many methods for spectrum processing, including scaling, smoothing, filtering, peak and valley detection, etc.
- Kinetic measurement: Enzyme kinetic reaction rate calculation, scaling, smoothing, filtering, peak and valley detection, derivation and other map processing methods selection;
- DNA/RNA, protein test function, automatic calculation of sample ratio and concentration.



Main parameters

Optical system	Self-collimating optical system, 1200/mm holographic grating
Wavelength range	190-1100nm
Spectral bandwidth	2nm
Wavelength accuracy	±0.5nm
Wavelength repeatability	±0.2nm
Transmittance Accuracy	±0.3%T, ±0.002Abs (0-0.5Abs), ±0.004Abs (0.5-1.0Abs)
Transmittance repeatab.	±0.1%T, ±0.001Abs (0-0.5Abs), ±0.002Abs (0.5-1.0Abs)
Stray light	≤0.05%T at 220,340nm
Noise	±0.0015Abs
Baseline drift	≤0.001A/H at 500nm, after warm-up
Baseline flatness	±0.0015Abs
Noise	0% noise, ≤0.1%T; 100% noise, ≤0.3%T
Photometric range	0-200%T, -4-4A, 0-9999c (0-9999f)
Light source	Imported deuterium lamp and tungsten lamp
Data display	320X240 graphic LCD display
Scanning speed	High, medium and low third gear
Operating system language	English and Chinese
Data output	USB interface, Centronics parallel port
Input voltage & frequency	90-250V/AC 50-60HZ

Product standard configuration

Spectrophotometer	1
Power cord	1 pc
1cm 4-slot manual cuvette holder	1 pc
1cm standard glass cuvettes	1 set (4 pieces)
1cm standard quartz cuvettes	1 set (2 pieces)
Instruction manual	1 pc
Dust cover	1 pc



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