

UV Spectrophotometer

UV-1600PC of accurate scanning UV-visible spectrophotometer is a reliable and precise laboratory instruments, capable of photometric measurements, quantitative analysis, qualitative analysis, dynamic analysis, DNA \ RNA, protein testing. High performance, high quality and a variety of practical features have earned a good reputation

Function

- Variable bandwidth, suitable for different samples and different test requirements
- Photometric measurements: sample can be easily measured absorbance and transmittance at the specified wavelength. Multi-wavelength pinpoint test can be simultaneously test up to 30 wavelengths
- Quantitative analysis: automatically build standard curve, optional one-class and zero-class linear regression, second-class and third-class curve fitting, single and double wavelength calibration and three-point method; with store standard curve to facilitate future testing
- Qualitative Analysis: The scanning speed is adjustable, filter position can be fine-tuned, spectrum processing including scaling, smoothing, filtering, peak detection etc
- Dynamic testing, enzyme kinetics reaction rate.
- DNA \ RNA, protein test function: built-in specified formula to get the final result directly
- USB data interface with online dedicated PC workstation, with more powerful function and data processing capabilities.

Performance feature

- Standard automatic 4-position cell holder, optional seven-position or 16-position cell holder
- Light source correction mechanism, the light source will be locating the best position when self-testing each time so that it can fix the offset focus position possibly caused by vibration during the transportation and the user don't have to debugging light source after change it
- The models that pursuit of cost-effective introduced by customers, there are two configurations of host and software control. The instrument equipped with precise split beam optical system and rational design of circuit control section.
- Built-in SCM technology and qualitative & quantitative analysis software enable UV-1600 UV-Vis spectrophotometer realize automatic control, data acquisition and processing, spectroscopy, kinetics measurement, quantitative analysis, DNA and spectral scanning etc functions.

- UV-1600PC UV-Vis spectrophotometer sample chamber with an open structural design, a variety of optional accessories suitable for different applications, such as reflection sample holder, solid sample holder, water bath and auto sampler.

Specifications:

Models	UV-1600PC
Operation mode	Host or PC operating including on-line software
Wavelength range	190 - 1100nm
Spectral bandwidth	2nm
Optical system	Accurate , Czerny-Turner, Grating 1200line/mm
Wavelength Accuracy	± 0.1 nm (656.1 nm D ₂) , ± 1 nm(the whole wavelength range)
Wavelength Repeatability	± 0.5 nm
Wavelength Resolution	0.1nm
Photometric Range	-3 to 3A ; 0-200%T; -9999 to 9999C
Photometric Accuracy	± 0.002 A(0~0.5A) ± 0.004 A(0.5~1A) ± 0.008 A(1~2A) $\pm 0.5\%$ T(0~100%T)
Photometric Repeatability	± 0.001 A(0~0.5A) ± 0.002 A(0.5~1A) ± 0.004 A(1~2A) $\pm 0.0.3\%$ T(0~100%T)
Stray light	$\leq 0.1\%$ T (220 nm, NaI; 340 nm, NaNO ₂)
Baseline Flattness	± 0.0015 A (200~1000nm)
Stability	± 0.001 A/hr @500nm ,0A
Photometric noise	± 0.001 A
Derivative resolution	>0.5
Data output	128×64 array graphic LCD
Outline Size	47×39×22.5CM
Net/Gross Weight (KG)	13.5Kg/16Kg
Packing size	58X46X31CM

Photos:

Outlook



Software

