Centre for Nano and Material Sciences
JAIN UNIVERSITY
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UV-VIS Spectrophotometer

Instrumentation Details

Make   : Shimadzu, Japan
Model   : UV-1800
Specification:

Wavelength range	190 to 1100nm
Spectral bandwidth	1nm (190 to 1100nm)
Wavelength display	0.1-nm increments
Wavelength setting	0.1-nm increments (1-nm increments when setting scanning range)
Wavelength accuracy	±0.1nm at 656.1nm D2 ±0.3nm (190 to 1100nm)
Wavelength repeatability	±0.1nm
Stray light	less than 0.02% NaI at 220nm, NaNO2 at 340nm
	less than 1.0% KC Ⅰ at 198nm
Photometric system	Double Beam
Photometric range	Absorbance: -4 to 4 Abs Transmittance: 0% to 400%
Photometric accuarcy	±0.002 Abs (0.5Abs)
	±0.004 Abs (1.0Abs)
	±0.006 Abs (2.0Abs)
Photometric repeatability	less than ±0.001 Abs (0.5Abs)
	less than ±0.001 Abs (1Abs)
	less than ±0.003 Abs (2.0Abs)

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Baseline stability	less than 0.0003 Abs/H at 700nm (one hour after light source turned ON)
Baseline flatness	within ±0.0006 Abs (190 to 1100nm,one hour after light source turned ON)
Noise level	Within 0.00005 Abs RMS value (at 700nm)
Dimensions (W×D×H)	450(W) x 490(D) x 270(H)
Weight	15kg
Printers	DPU, ESC/P, PCL printers, USB I/F Windows-compliant printers are available with USB memory and PC software
Memory	USB memory (option) Saved as text and UVPC file
Performance for PC	USB memory＋UVProbe (standard) Win XP

UV/Vis spectroscopy is routinely used in analytical chemistry for the quantitative determination of different analytes.

Contact Us

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