

UV-Vis NIR Spectrophotometer



BK-UN600PLUS

Introduction:

The UV-Vis NIR spectrophotometer is an instrument designed for continuous scanning across the ultraviolet, visible, and near-infrared spectral regions. Its applicable fields include building energy efficiency testing, construction engineering quality inspection, automotive safety glass testing, materials science research, and scientific research in higher education institutions.

Features:

- * Featuring computer-based automatic control, automatic calibration upon startup, and automated data acquisition and processing. Dedicated to specific tasks for streamlined management.
- * BK-UN600PLUS: Features a dual imported detector for the UV/Vis/NIR range, resulting in enhanced sensitivity for weak signals, reduced noise, and superior accuracy. BK-UN600: Utilizes a dual-receiver system consisting of a broadband imported photomultiplier tube (PMT) and a lead sulfide (PbS) detector.
- * The control of the instrument (such as grating conversion, filter conversion, receiver conversion, wavelength scanning, etc.) is all controlled by the computer, and the interface is USB2.0. The connection of the instrument is simple, which greatly improves the communication speed.
- * The integrated optical test system software can be selected to automatically detect the visible light transmittance, direct sunlight transmittance, direct sunlight reflectance and other related parameters of building glass.

- * The total transmittance of solar energy and the shielding coefficient of various window glass components to solar radiation heat can be obtained by cooperating with the glass hemispherical emissivity detector.
- * Special sample test accessories can be selected.
- * The software sets the import function, which can import data in text format.
- * Real time measurement of sample data, test result data can be exported.
- * The software can run under WinXP and win7 systems.

Technical Parameters:

Model	BK-UN600PLUS
Optical System	Double beam
Wavelength Range	190~3200nm(250~2500nm in integrated sphere)
Wavelength Accuracy	±0.5nm(UV/Vis) ±4nm(NIR)
Wavelength Repeatability	≤0.3nm(UV/Vis) ≤2nm(NIR)
Spectral Bandwidth	0.2~5nm(UV/Vis) 1~20nm(NIR)
Operate Mode	Transmittance, absorbance, reflectivity, energy
Raster	Diffraction grating 1200L/mm(UV/Vis) 300L/mm(NIR)
Transmittance Accuracy	±0.3%T
Transmission Specific Gravity Refolding	≤0.2%T
Stray Light	≤0.2%T(220nm, NA1)
Sampling Interval	0.1nm, 0.2nm, 0.5nm, 1nm, 1.5nm, 2nm, 5nm, 10nm
Photometric Range	0~3A
Baseline Flatness	±0.004A(200~2500nm, after preheating for 30 minutes)
Host Interface	USB2.0
Power Supply	AC 220V, 50/60Hz(Standard); 110V, 50/60Hz(Optional)
Standard Accessory	Operational software
Optional Accessory	Integrating sphere accessory(60/100/150mm); transmission accessory; reflection accessory(Only the 60mm integrating sphere accessory, transmission accessory, and reflection accessory are configurable simultaneously)
External Size(W*D*H)	700*600*260mm
Package Size(W*D*H)	860*730*400mm
Net Weight	50kg
Gross Weight	75kg