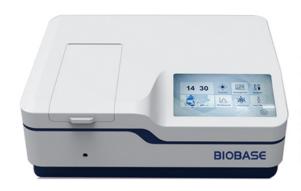# UV-Vis Spectrophotometer

Introduction:

This instrument employs a pulsed xenon lamp as the light source. It can be utilized normally for at least 7 years without the need for light source replacement. We implement unique designs in optics, circuits, structure, advanced process specifications, and a rigorous quality management system. The microcomputer governs and processes data. A large color screen is utilized for display, along with graphical interface operation and user-friendly menu prompts.

Features:

∗ The instrument employs a pulsed xenon lamp as the light source. The lamp with 1 billion flashes can last for 7 years.
∗ A 10.1-inch color touchscreen display directly shows various scanning curves and spectrograms.
∗ U disk storage is supported. Excel, TXT, and image formats (four formats: *.csv, *.qua. *.tet, *.bmp) can be exported.
∗ Data output: RS-232C serial port (for printing), USB drive (for online connection), USB HOST (for U disk), with 32GB memory as standard.
∗ It uses an advanced 32-bit Cortex_M3 processor with a main frequency of 120M and can store 5,000 test data or 500 working curves.
∗ The suspension optical system and the strengthened thickened aluminum base plate are designed to eliminate the impact of vibration or deformation on the optical system.
∗ Double-layer design separates the optical path and circuit parts completely.

Technical Parameters:

Model	BK-D9X
Optical System	Double Beam, 1200 lines/mm holographic grating
Spectral Bandwidth	1.0/2.0 nm
Wavelength Range	190 ~1100 nm
Wavelength Accuracy	±0.3 nm
Wavelength Repeatability	0.1 nm
Wavelength Resolution	0.1 nm
Data Display	10-inch LCD color touchscreen
Stray Light	≤0.05%TT at 220 nm, 360 nm
Photometric Range	0 ~200%T, -0.3 ~3.0A, 0~ 9999C (0 ~9999F)
Maximum Allowable Error of Transmittance	±0.3%T
Transmittance Repeatability	≤0.1%T
Baseline Flatness	±0.001Abs
Drift	≤0.1%T
Noise	0% ≤ 0.05%T, 100% ≤ 0.1%T
Light Source	Xenon Lamp
Power Supply Voltage Adaptability	±0.1%
Data Output	RS-232C serial port (printing), USB drive (online connection), USB HOST (U disk)
Processor	Cotex_M3, main frequency 120 MHz
Supply Power	220V,50/60Hz (Standard); 110V,50/60Hz (Optional)
External Size (W*D*H) mm	580*450*215
Standard Accessories	4*glass cuvette, 2*quartz cuvette, PC Software
Package Size (W*D*H) mm	800*645*265
Net Weight (kg)	21
Gross Weight (kg)	26