

## UV/VIS Spectrophotometer

### Features:

- \* With SiO2 coating optical mirror, reducing the pollution from outside fully
- \* Wavelength calibration, wavelength setting, change lamp source and dark current calibration automatically
- \* With GLP self-check function, check the wavelength accuracy and Photometry accuracy
- \* PC Software to expand the applications to Quantitative, Multi-Wavelength and Kinetics, Spectrum Scanning, DNA/Protein test for PC Series



### Basic Functions:

- \* **Photometry**  
Test Abs., Transmittance and Energy by fixed wavelength.
- \* **Kinetics**  
Used for time course scanning or reaction rate calculations  $\Delta A/t$ , can search all data.
- \* **Multi-Wavelength**  
Can test Transmittance and Abs. with 8 different wavelengths at most
- \* **Quantitative**  
Linear fit and Linear fit through zero two modes  
a. Coefficient, Standard Sample input and Standard Sample read three modes to establish standard curve.  
b. Establish  $A=K1*C+K0$ , can search original data, graph curve, parameters settings  
c. Can save 240 group curves, can test 240 data in each curve.  
d. Double wavelength, Triple wavelength test functions.

### Technical Parameters:

Model	BK-UV1800 BK-UV1800PC	BK-UV1600 BK-UV1600PC	BK-V1800 BK-V1800PC	BK-V1600 BK-V1600PC
Optical System	Single Beam, Grating 1200 lines/mm			
Wavelength Range	190~1100nm		320~1100nm	
Spectral Bandwidth	2nm	4nm	2nm	4nm
Wavelength Accuracy	±0.5nm			
Wavelength Repeatability	≤0.2nm			
Photometric Accuracy	±0.002A (0~0.5Abs), 0.004A (0.5~1.0Abs), ±0.5% T (0~100% T)			
Photometric Repeatability	0.001Abs (0~0.5Abs), 0.002Abs (0.5~1.0Abs), ≤0.2% T (0~100% T)			
Stray Light	≤ 0.04% T @ 360nm; 220nm		≤ 0.04% T @ 360nm	
Stability	±0.001A/h @ 500nm			
Baseline Flatness	±0.002A			
Noise	±0.0005A			
Display	480*272 65 thousand true color TFT LCD			
Photometric Mode	T, A, C, E			
Photometric Range	0~200% T, -0.301~3.0A			
Detector	Silicon Photodiode			
Light Source	Deuterium Lamp, Tungsten Lamp			
Input	Membrane Keypad			
Output	USB-A*2 Print and data output USB-B Connect PC			
Standard Accessories	1cm glass cuvette*4, 1cm quartz cuvette*2, 1cm quadruple cuvette holder*1, Scanning software(only for PC type)		1cm glass cuvette*4, 1cm quadruple cuvette holder*1, Scanning software(only for PC type)	
Optional Accessories	1cm standard single slot cuvette holder, long optical path cuvette holder, cuvette, micro cuvette, test tube type absorber rack, solid sample holder, deuterium lamp(only for UV series), tungsten lamp, quadruple cuvette holder, printer, four-slot water bath type constant temperature absorption pool, X-Y Adjustable Micro Absorption Pool, single bath type constant temperature absorption pool, program-controlled thermostatic absorption pool seat, 8 racks, reflection accessories, general application software or Scanning software(not for PC type)			
Power Supply	AC110/220V±10%, 60/50Hz			
Package Size(W*D*H)mm	620*500*370	620*500*370	620*500*370	620*500*370
Gross Weight(kg)	18	18	16.5	16.5

## Scanning UV/VIS Spectrophotometer

### Features:

- \* With SiO2 coating optical mirror, reducing the pollution from outside fully
- \* Adopted high-class grating with wholly hermetic light path design, to ensure the instrument has the super low stray light
- \* With GLP self-check function, check the wavelength accuracy and Photometry accuracy
- \* Real-time monitoring the lifetime of Deuterium lamp and Tungsten lamp with advanced system
- \* Wavelength calibration, wavelength setting, change lamp source and dark current calibration automatically



### Basic Functions:

- \* **Photometry**  
Test Abs., Transmittance and Energy by fixed wavelength.
- \* **Quantitative**  
Linear fit and Linear fit through zero two modes  
a. Coefficient, Standard Sample input and Standard Sample read three modes to establish standard curve.  
b. Establish  $A=K1*C+K0$ , can search original data, graph curve, parameters settings.  
c. Can save 240 group curves, can test 240 data in each curve.  
d. Double wavelength, Triple wavelength test functions.
- \* **Kinetics**  
Used for time course scanning or reaction rate calculations  $\Delta A/t$ , can search all data.
- \* **Multi-Wavelength**  
Can test Transmittance and Abs. with 8 different wavelengths at most.
- \* **Scanning**  
User can set the scan range from 190nm to 1100nm to test the max. Abs. peak value, can do derivation, arithmetical operations to the graph.
- \* **Biology**  
6 methods: DNA/Protein, UV, Lowry, BCA, CBB and Biuret.

### Technical Parameters:

Model	BK-UV1900 BK-UV1900PC	BK-V1900 BK-V1900PC
Optical System	Single Beam, Grating 1200 lines/mm	
Wavelength Range	190~1100nm	320~1100nm
Spectral Bandwidth	2nm	
Wavelength Accuracy	±0.5nm	
Wavelength Repeatability	≤0.2nm	
Photometric Accuracy	±0.002A (0~0.5Abs), ±0.004A (0.5~1.0Abs), ±0.5% T (0~100% T)	
Photometric Repeatability	0.001Abs (0~0.5Abs), 0.002Abs (0.5~1.0Abs), ≤0.2% T (0~100% T)	
Stray Light	≤ 0.04% T @ 360nm; 220nm	
Stability	± 0.001A / h @ 500nm	
Baseline Flatness	±0.002A	
Noise	0.0005Abs @ 500nm	
Display	480*272 65 thousand true color TFT LCD	
Photometric Mode	T, A, C, E	
Photometric Range	0~200% T, -0.301~3.0A	
Detector	Silicon Photodiode	
Light Source	Deuterium Lamp, Tungsten Lamp	
Input	Membrane Keypad	
Output	USB Print and data output, Connect PC	
Standard Accessories	1cm glass cuvette*4, 1cm quartz cuvette*2, 1cm quadruple cuvette holder*1, Scanning software(only for PC type)	1cm glass cuvette*4, 1cm quadruple cuvette holder*1, Scanning software(only for PC type)
Optional Accessories	1cm standard single slot cuvette holder, long optical path cuvette holder, cuvette, micro cuvette, test tube type absorber rack, solid sample holder, deuterium lamp(only for UV series), tungsten lamp, quadruple cuvette holder, printer, four-slot water bath type constant temperature absorption pool, X-Y Adjustable Micro Absorption Pool, single bath type constant temperature absorption pool, program-controlled thermostatic absorption pool seat, 8 racks, reflection accessories, general application software or Scanning software(not for PC type)	
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