

Spectrophotometer

Micro-Volume UV/VIS Spectrophotometer

Features:

- * LCD display
- * Microscale sample test, minimum 0.2 μ l.
- * Unique design sample holder, could test small amount DNA and protein.
- * Ultromicro and cuvette dual platform.
- * More accuracy, no light loss in whole test process.



Technical Parameters:

Model	BK-CW500
Minimum Sample Capacity	0.2 μ l
Ultromicro Optical Distance	0.5mm
Detectable Concentration Range	2.5~7500ng/ μ l(dsDNA)
Min Precise Detect Concentration	10ng/ μ l (dsDNA)
Max Precise Detect Concentration	5000ng/ μ l (dsDNA)
DNA reproducibility	< ±1.0 % (dsDNA, @ 1000ng/ μ l)
Wavelength Range	190~1100nm
Spectral Bandwidth	4nm
Optical System	Grating Double beam
Wavelength Accuracy	±0.5nm
Wavelength Repeatability	0.3nm
Max Scanning Speed	4000nm/min
Photometric Accuracy	±0.5%T or ±0.004A @ 1A
Photometric Range	0~200%T, -0.3~0.3A, 0~9999Conc
Stray Light	0.05%T @ 220, 340nm
Stability	±0.001A/h @ 500nm
Baseline Flatness	±0.002A
Light Source	Halogen & Deuterium lamp
Output	USB Print and data output, Connect PC
Power Supply	AC110/220V±10%, 50/60Hz
Package Size(W*D*H)mm	480*600*360
Gross Weight(kg)	11

Micro-Volume UV/VIS Spectrophotometer

Application:

Micro-Volume Spectrophotometer is used for quantitative and qualitative research by spectrophotometry. It is usually used in quantitative research of nucleic acid, proteins and bacterial concentration.



Features:

- * Most samples don't need dilute.
- * Microscale sample test, minimum 0.5 μ l.
- * PC control, more accurate and flexible.
- * Ultromicro and cuvette dual platform (Only for BK-CW2000).
- * Wide test area, 100 times of the traditional spectrophotometer.
- * Test directly without warming up, do not need detection container, lower daily consumption.

Technical Parameters:

Model	BK-CW1000	BK-CW2000
Minimum Sample Capacity	0.5 μ l	
Ultromicro Optical Distance	1mm/0.2mm	1mm/0.2mm/0.05mm
Cuvette Optical Distance	/	10mm/5mm/2mm/1mm
Whole Wavelength	190~1100nm	
Scanning Wavelength	190~850nm	
Wavelength Accuracy	1nm	
Wavelength Resolution	≤0.3nm (FWHM @ Hg 253.7nm)	
Absorbance Accuracy	2% (0.76 @ 257nm)	
Absorbance Resolution	0.002Abs (1mm)	
Absorbance Range	0.02~300(10mm)	0.005~300 (10mm)
Test Accuracy	0.1~5 Abs.±0.1 Abs 5~80 Abs. ±2%	0.01~0.5 Abs. ±0.01Abs 0.5~80 Abs. ±2%
Test Time	5s	
Detector	3648 pixel linear CCD array	
Light Source	Xenon flash lamp	
Sample Test Platform Material	304 stainless steel and quartz	
Standard Accessories	• Driver software CD 1 pc • Power line 1 pc • Power Adapter 1 pc	
Consumption	24W	
Power Supply	AC110/220V±10%, 50/60Hz	
External Size(W*D*H)mm	200*130*136	
Package Size(W*D*H)mm	310*310*310	
Net Weight(kg)	2.5	
Gross Weight(kg)	5	

UV/VIS Spectrophotometer

Basic Functions:

Model	Optical System	Wavelength Range	Bandwidth	Photo-metry	QTY	MULT	KINS	Scanning	Bio
BK-V1000	Single Beam	325-1020nm	4nm	•					
BK-UV1000	Single Beam	200-1020nm	4nm	•					
BK-V1200	Single Beam	325-1020nm	4nm	•	•				
BK-UV1200	Single Beam	200-1020nm	4nm	•	•				
BK-V1600	Single Beam	320-1100nm	4nm	•	•	•	•		
BK-UV1600	Single Beam	190-1100nm	4nm	•	•	•	•		
BK-V1800	Single Beam	320-1100nm	2nm	•	•	•	•		
BK-UV1800	Single Beam	190-1100nm	2nm	•	•	•	•		
BK-V1900	Single Beam	190-1100nm	2nm	•	•	•	•	•	•
BK-UV1900	Single Beam	190-1100nm	2nm	•	•	•	•	•	•
BK-S360	Single Beam	190-1100nm	1.8nm	•	•	•	•	•	•
BK-S380	Single Beam	190-1100nm	1nm	•	•	•	•	•	•
BK-S390	Single Beam	190-1100nm	0.5, 1, 2, 4, 5nm	•	•	•	•	•	•
BK-D560	Double Beam	190-1100nm	1.8nm	•	•	•	•	•	•
BK-D580	Double Beam	190-1100nm	1nm	•	•	•	•	•	•
BK-D590	Double Beam	190-1100nm	0.5, 1, 2, 4, 5nm	•	•	•	•	•	•

UV/VIS Spectrophotometer

Features:

- * Large LCD screen (128*64 Dots).
- * Pre-aligned design ensures the user can change lamps conveniently.
- * With SiO₂ coating optical mirror, reducing the pollution from outside fully.
- * Environmental Deuterium lamp, preventing from Ozone inhalation.
- * High-class grating, wholly hermetic light path design, ensures the super low stray light.
- * 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.
- * Optional PC Software to expand the applications to Quantitative, Multi-Wavelength and Kinetics.
- * Widely used for Organic chemistry, Inorganic chemistry, Life sciences, food, Medicine and health, Agriculture, Geology, Metallurgy and Environment etc. fields.



Basic Functions:

* Photometry

Test Abs, Transmittance by fixed wavelength.

Photometry Mode

WL: 546.0 T: 100.0			
A	T	C	F

Con. Test C=K*A+B

WL: 546.0 C: 10C			
A	T	C	F

Technical Parameters:

Model	BK-UV1000	BK-V1000	BK-UV1200	BK-V1200
Optical System	Single Beam, Grating 1200 lines/mm			
Wavelength Range	200~1100nm	325~1100nm	195~1100nm	320~1100nm
Spectral Bandwidth	4nm			
Wavelength Accuracy	±1.8nm		±1.0nm	
Wavelength Repeatability	≤0.5nm			
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	≤ 0.2 % T @ 360nm; 220nm(UV)		≤ 0.2% T @ 360nm(V)	
Stability	± 0.002A/h@500nm			
Noise	±0.001A			
Display	128*64 Dots 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	Parallel Print,USB1.0			
Standard Accessories	1cm glass cuvette*4, 1cm quartz cuvette*2, 1cm quadruple cuvette holder*1	1cm glass cuvette*4, 1cm quartz cuvette*2, 1cm quadruple cuvette holder*1	1cm glass cuvette*4, 1cm quartz cuvette*2, 1cm quadruple cuvette holder*1	1cm glass cuvette*4, 1cm quadruple cuvette holder*1
Optional Accessories	General application software, 1cm standard single slot cuvette holder, long optical path cuvette holder, cuvette, micro cuvette, test tube type absorber rack, solid sample holder, deuterium lamp, 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			
Package Size(W*D*H) mm	560*430*320	560*430*320	560*430*320	560*430*320
Gross Weight(kg)	12	11.5	12	11.5

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:

- | | |
|--|---|
| <ul style="list-style-type: none"> * 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 | <ul style="list-style-type: none"> * Quantitative
Linear fit and Linear fit through zero two modes <ul style="list-style-type: none"> a. Coefficient, Standard Sample input and Standard Sample read three modes to establish standard curve. b. Establish $A = K_1 \cdot C + K_0$, 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	$\pm 0.5\text{nm}$			
Wavelength Repeatability	$\leq 0.2\text{nm}$			
Photometric Accuracy	$\pm 0.002A$ (0~0.5Abs), 0.004A (0.5~1.0Abs), $\pm 0.5\%$ T (0~100% T)			
Photometric Repeatability	0.001Abs (0~0.5Abs), 0.002Abs (0.5~1.0Abs), $\leq 0.2\%$ T (0~100% T)			
Stray Light	$\leq 0.04\%$ T @ 360nm; 220nm		$\leq 0.04\%$ T @ 360nm	
Stability	$\pm 0.001A/h$ @ 500nm			
Baseline Flatness	$\pm 0.002A$			
Noise	$\pm 0.0005A$			
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, 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 $\pm 10\%$, 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:

- | | |
|--|---|
| <ul style="list-style-type: none"> * Photometry
Test Abs., Transmittance and Energy by fixed wavelength. * Quantitative
Linear fit and Linear fit through zero two modes <ul style="list-style-type: none"> a. Coefficient, Standard Sample input and Standard Sample read three modes to establish standard curve. b. Establish $A = K_1 \cdot C + K_0$, 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. | <ul style="list-style-type: none"> * 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	$\pm 0.5\text{nm}$	
Wavelength Repeatability	$\leq 0.2\text{nm}$	
Photometric Accuracy	$\pm 0.002A$ (0~0.5Abs), $\pm 0.004A$ (0.5~1.0Abs), $\pm 0.5\%$ T (0~100% T)	
Photometric Repeatability	0.001Abs (0~0.5Abs), 0.002Abs (0.5~1.0Abs), $\leq 0.2\%$ T (0~100% T)	
Stray Light	$\leq 0.04\%$ T @ 360nm; 220nm	
Stability	$\pm 0.001A/h$ @ 500nm	
Baseline Flatness	$\pm 0.002A$	
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 quartz cuvette*2, 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, 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)	1cm standard single slot cuvette holder, long optical path cuvette holder, cuvette, micro cuvette, test tube type absorber rack, solid sample holder, deuterium lamp, 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	AC110V/220V $\pm 10\%$, 60/50Hz	
Package Size(W*D*H)mm	620*500*370	620*500*370
Gross Weight(kg)	18	16.5

Scanning UV/VIS Spectrophotometer

Features:

- * Environmental Deuterium lamp, preventing from Ozone inhalation
- * Socket-Type Deuterium lamp and Tungsten lamp
- * SiO₂ coating optical mirror, reduces the influence from outside
- * GLP self-check function: check the wavelength accuracy and Photometry accuracy, provide test report and power-off protection
- * 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 DNA/Protein, (Optional: UV, Lowry, BCA, CBB and Biuret)

Technical Parameters:

Model	BK-S360	BK-S380	BK-S390
Optical System	Single Beam, Grating 1200 lines/mm		
Wavelength Range	190~1100nm		
Spectral Bandwidth	1.8nm	1nm	0.5, 1, 2, 4, 5nm
Wavelength Accuracy	±0.3nm		
Wavelength Repeatability	≤0.2nm		
Photometric Accuracy	±0.002A (0~0.5Abs), ±0.004A (0.5~1.0Abs), ±0.3% T (0~100% T)		
Photometric Repeatability	0.001Abs (0~0.5Abs), 0.002Abs (0.5~1.0Abs), ≤0.1% T (0~100% T)		
Stray Light	≤0.04% T @ 360nm; 220nm		
Stability	±0.001A/h @ 500nm		
Baseline Flatness	±0.0015A		
Noise	±0.0004Abs		
Display	65 thousand true color 7 inch TFT LCD (480*800)		
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, scanning software		
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, 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		
Power Supply	AC110V/220±10%, 60/50Hz		
Package Size(W*D*H) mm	740*570*440		
Gross Weight(kg)	25		

Double Beam Scanning UV/VIS Spectrophotometer

Features:

- * Environmental Deuterium lamp, preventing from Ozone inhalation
- * Real-time monitoring the lifetime of Deuterium lamp and Tungsten lamp
- * Socket-Type Deuterium lamp and Tungsten lamp
- * GLP self-check function: check the wavelength accuracy and Photometry accuracy, provide test report and power-off protection
- * Wavelength calibration, wavelength setting, change lamp source and dark current calibration automatically
- * SiO₂ coating optical mirror, reduces the influence from outside



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 setting
 - 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-D560	BK-D580	BK-D590
Optical System	Double Beam, Grating 1200 lines/mm		
Wavelength Range	190~1100nm		
Spectral Bandwidth	1.8nm	1nm	0.5, 1, 2, 4, 5nm
Wavelength Accuracy	±0.3nm		
Wavelength Repeatability	≤0.2nm		
Photometric Accuracy	±0.002A (0~0.5Abs), ±0.004A (0.5~1.0Abs), ±0.3% 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	±0.0003A/h @ 500nm		
Baseline Flatness	±0.0005A		
Noise	±0.0002Abs		
Display	65 thousand true color 7 inch TFT LCD(480 *800)		
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	Scanning software, 1cm standard single slot cuvette holder, 1cm glass cuvette*4,		
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, 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, Scanning software		
Power Supply	AC110V/220±10%, 60/50Hz		
Package Size(W*D*H) mm	740*570*440		
Gross Weight(kg)	25		

UV/VIS Spectrophotometer 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	Tungsten lamp
			
Quadruple cuvette holder	Printer	Four-slot water bath type constant temperature absorption pool	Reflection accessories
			
8 racks	X-Y Adjustable Micro Absorption Pool	Single bath type constant temperature absorption pool	Program-controlled thermostatic absorption pool seat

Flame Spectrophotometer

It is an analytical instrument based on emission spectrum principle, using the thermal energy of flame to make the certain element motivate luminescence to analyze the content of certain element in the material, widely used in the analysis and determination of agricultural fertilizer, soil, cement, ceramics and silicate industry and pathological studies of health care etc.

Features:

- * USB Interface(Except BK-FP640)
- * LPG as burning gas
- * Direct concentration read-out
(Except BK-FP640)
- * Measuring range adjustable
- * 7 inch LCD touch screen
- * Automatic Calculation of correlation coefficient(Except BK-FP640)
- * Pre-selection of flame sizes
- * Flameout protection device
- * Optional built-in printer (Except for BK-FP640)



Air Compressor

Model	BK-FP640	BK-FP6410	BK-FP6430	BK-FP6431	BK-FP6440	BK-FP6450
Sensitivity(LOD)	K 0.01ppm					
	Na 0.01ppm					
	Li /	/	0.1ppm	/	0.1ppm	
	Ca /	/	/	2ppm	2ppm	
	Ba /	/	/	/	/	6ppm
Range	K 0~100ppm					
	Na 0~160ppm					
	Li /	/	0~100ppm	/	0~100ppm	
	Ca /	/	/	0~1000ppm	0~1000ppm	
Linearity Error	Ba /	/	/	/	/	0~3000ppm
	K ≤0.195ppm					
	Na ≤0.69ppm					
	Li /	/	≤0.15ppm	/	≤0.15ppm	
Reproducibility	Ca /	/	/	≤3ppm	≤3ppm	
	Ba /	/	/	/	/	≤9ppm
	3% CV for 7 consecutive samples					
	<8s					
Response Time	Sample Uptake	<6ml/min				
	Ambient Temp	10°C~35°C				
	Humidity	≤85%				
	Power Supply	AC110/220V±10%, 60/50Hz				
Consumption	Consumption	250W				
	Standard Accessory	Air compressor				
	Package Size	570*560*400mm				
	Gross weight	18kg				

Remark: The instrument data shows one digit after the decimal point by default.

Fluorescence Spectrophotometer

Applications:

Fluorescence analysis can provide information including excitation and emission spectrum, emission light intensity and measurement of life of emission light and polarization fluorescence etc and a wide lineal range of working curve.

This method has been used in: Medical science and clinical ,Pharmaceutical science and pharmacology,Biochemistry ,Food industry, Pollution and Organic and inorganic chemistry.



BK-F96PRO



BK-F93

Features for BK-F96PRO:

- * Two operation modes fluorescence intensity and luminous intensity.
- * 365nm exciting wavelength, Raman peak of water S/N ≥150.
- * 10 stages emission spectrum scanning.
- * Support off-line mode and on-line mode.

Features for BK-F93 :

- * 1200 line diffraction grating emission monochromator.
- * LED is a cold-light source with longevity, lower background & reliability, prevent from thermo-pollution.
- * Automatic zero adjustment and automatic background subtraction.
- * Eight stage sensitivity adjustment, Real time fluorescence value display and concentration print out, Extra wide dynamic range of fluorescence value ensures accurate measurement of minute changes in micro samples.

Technical Parameters:

Model	BK-F96PRO	BK-F93
Light Source	Hamamatsu 150W Xenon lamp	4 digits LED
Excitation filter	Interference optical filter a) Standard set is equipped with an interference optical filter of central wavelength at 365nm and 10nm bandwidth b) An optional interference optical filter of 25mm diameter of wavelength of 250~700nm can be provided on users demand.	LED options a) Standard set includes LED at wavelength 365nm b) The A set includes LED wavelength at 365nm, 376nm, 392nm, 405nm c) Customizable wavelength from 360nm to 600nm
Emission Monochromator	C-T diffraction grating (Em 200~900nm, bandwidth 10nm)	360~650nm (C-T diffraction grating)
Wavelength Accuracy	±1nm	±2nm
Wavelength Repeatability	≤0.5nm	≤1nm
Sensitivity	Raman peak of water in 1 cm quartz fluorescence cuvette with S/N≥150	1*10 ⁻⁹ g/ml (Standard aqua of the sulfuric acid Quinine, 12nm bandwidth)
Linear Measurement(r)	≥0.995	
Stability	better than 1.5%/10min	better than 3%/10min
Response Time	(0.1~4)s, 6 stages adjustable	(0.1~4)s
Fluorescence Display Value	0.00~600.00	0.00~250.00
Standard Accessories	365nm filter(Preassembled), 1 pc F96PRO software package, 1 pc USB interface, 1 pc Quartz fluorescence sample cell10mm, 1 pair	RS232 serial port, Glass fluorescence cuvette 10mm 1 pair
Optional Accessories	Fuses(2A/5A), 200-700nm interference optical filter (φ25mm) Quartz fluorescence sample cell10mm Multi-function fluorescent sample rack holder, Membrane sample rack, Powder sample rack, Sample cell jacket, Octave Filters 200uL microcentrifuge tube accessory Upconversion fluorescent accessory	Data processing software package (pack, for PC) Fuses(2A) Quartz fluorescence cuvette10mm Optional LED A Set includes: 365nm, 376nm、392nm、405nm
Power Supply	AC110/220V±10%, 60/50Hz	
Package Size(W*D*H)mm	535*500*380	450* 420 *280
Gross Weight(kg)	14	9

BK-AA4530F Atomic Absorption Spectrophotometer



Standard Accessories:



Oil free air compressor



Printer

Features:

- * Completely controlled by PC, can flexibly select the flame and graphite furnace atomizer (optional).
- * Integrated floated optical platform design improves the optical system shock resistance stable.
- * Eight light stands can be changed automatically and preheat the eight lights meantime as well as optimize the working condition of the hollow cathode lamp.
- * Position adjusting: the flame burner can be set on the best position automatically.
- * Fully automated wavelength scanning and peak searching.
- * Complete safety chains protection equipment: warning and automatic safety protection for the wrong burner connection, leakage of the gas, under voltage of air and the abnormal flameout.
- * Deuterium lamp and self-absorption background calibration.
- * Measuring method: flame absorption method and emission method.
- * Result printing: parameter, data result and diagram.
- * Data processing: more than 500 data self-storage and cut-off storage, the analyzed result is stored in EXCEL format.

Technical Parameters:

Model	BK-AA4530F
Wavelength Range	190~900nm
Spectral Bandwidth	0.1, 0.2, 0.4, 1.0 and 2.0nm
Wavelength Accuracy	≤±0.15nm
Wavelength Repeatability	≤0.04nm
Base Line Stability	≤0.002A/30min (Cu)
Characteristic Concentration	0.02μg/ml/1% (Cu)
Detection Limit	0.004μg/ml (Cu)
Preciseness	≤0.5%
Grating	1800 lines/mm
Inflamer	All-metal titanium burner
Atomizer	Effective glass atomizer
Lamp Stand	8
D2 background Calibration	When the background is 1 A, the background ability should be deducted not less than 50 times; self absorption background deduction method
Power Supply	220V, 50Hz
Packing Size(W*D*H) mm	860*705*755 (Main instrument); 545*445*1385 (Accessories)
Gross Weight(kg)	105 (Main instrument); 100 (Accessories)
Standard Accessories	Software; Inkjet printer; Oil free Air compressor; Acetylene reducing valve; Cu Hollow cathode lamp; Air filter
Optional Accessories	Graphite Furnace 4510GF; Hollow cathode lamp(Ag, Au, Ca, Cd, Cr, Fe, Hg, K, Au, Mg, Mn, Na, Ni, Pb, Zn, Sb, etc), Graphite tubes, Recirculating cooling water system, Hydride generator, Autosampler

Flame System:

Acetylene Air Burner	100mm
Ignition Dynamic Baseline Drift	≤0.006A/30min
Characteristic Concentration	≤0.025μg/ml/1%(Cu)
Related Standard Deviation of the Accuracy	≤0.5% (Cu, absorbance > 0.8A) (detection limit Cu≤0.008μg/ml)
Safety System	Can automatically cut off the gas when the pressure is not enough, the power is off, flameout and un conformity of the burner.

Graphite Furnace(Optional):

Max. Temperature	3000°C
Max Heating Speed	≥2000°C/S
Characteristic Quantity	Cd≤0.5*10 ⁻¹² g Cu≤0.5*10 ⁻¹¹ g
Accuracy	Cu≤3% Cd≤3%
Safety System	Over current protection Low air pressure alarm/protection; Low cooling water flow alarm/protection
Power Supply	220V, 50Hz
Consumption	7000W
Packing Size(W*D*H) mm	740*640*700
Gross Weight(kg)	90

BK-AA320N Atomic Absorption Spectrophotometer



**Oil free air compressor
(standard accessories)**



Features:

- * Build-in computer data processing and LCD display.
- * Stability: Double-beam system can automatically compensate the light source drift and wavelength drift caused by the variation of temperature and electronic circuit drift.
- * Quickly: The cathode lamp does not need to be pre-heated for long time and sample can be analyzed immediately.
- * High precision of measurement: Gas path system is equipped with precision pressure stabilizing and current stabilizing devices to reach stable flame and low noise. Specially designed fine light beam passes through the flame to ensure a high precision analytical test and low characteristic concentration.
- * High energy optical path.
- * Long-life and anti-corrosive atomization system.
- * Multi-functional analysis mode: ① flame absorption, ② flame emission, ③ graphite furnace atomic absorption, ④ hydride generation.
- * Safe and reliable gas path system: Special devices of quick gas conversion and safety protection can be used to analyze air-acetylene flame and extend the analytic elements to reach more than 60.

Technical Parameters:

Model	BK-AA320N
Wavelength Range	190~900nm
Wavelength Accuracy	≤±0.5nm
Wavelength Repeatability	≤0.3nm (single direction)
Spectral Bandwidth	0.2nm, 0.4nm, 0.7nm, 1.4nm, 2.4nm, 5.0nm
Grating	1800 lines/mm
Resolution	<40%
Base Line Stability	±0.004Abs/30min
Characteristic Concentration	≤0.04μg/ml/1% (Cu)
Detection Limit	≤0.008μg/ml (Cu)
Background Calibration	>30 times
Power Supply	220V, 50Hz
Package Size(W*D*H)	1250*795*765mm (Main instrument), 545*445*1385mm (Accessories)
Gross Weight	138kg (Main instrument), 56kg (Accessories)
Standard Accessories	RS232 serial port, Oil-free air compressor, Glass Atomizer, Cu Hollow cathode lamp, Atomizer unit Burner unit Dust cover, Water-separating gas filter, Titanium burner-10cm
Optional Accessories	Software, Model GA3202 HGA graphite furnace system, Hydride generator, Graphite tubes, Recirculating cooling water system, Hollow cathode lamp(Ag, Au, Ca, Cd, Cr, Fe, Hg, K, Mg, Mn, Na, Ni, Pb, Zn, AS, etc)

NIR Spectrophotometer

NIR spectrophotometer, mainly used for liquid samples qualitative and quantitative analysis, applies to gasoline, drinks, milk and other areas of nutrients, water chemistry and other physical properties of the rapid non-destructive analysis determination.

The instrument monitors the ambient temperature and humidity in real time and stores it in the spectrum file, which is convenient for users to check and optimize the measurement conditions.



Features:

- * Single-channel whole spectrum scanning.
- * Built-in high-quality PTFE reference module and polystyrene wavelength standard filter.
- * Automatic reference calibration and monitoring wavelength.

Technical Parameters:

Model	BK-S430
Optical system	Grating monochromator
Wavelength Scanning Interval	8nm
Wavelength Range	900~2500nm
Wavelength Accuracy	≤ 0.2nm
Wavelength Reproducibility	≤0.05 nm
Stray Light	≤0.1%
Scanning Time	1 minute or adjustable
Noise	≤0.0005 Abs
Interface	USB
Standard Accessories	2*1cm quartz square sample cell , 2*1mm quartz micro sample cell
Optional Accessories	Laptop
Power Supply	110V/220±10%, 60/50Hz
Packing size	535*500*380mm
Gross Weight	12kg