

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	•	•	•	•	•	•

			
Single cell holder	General cell holder	5-100mm cuvette	100-500ul micro cuvette
			
Test tube holder	Solid sample holder	Deuterium lamp	Halogen lamp
			
100mm Cell holder	printer	Water-jacketed cell holder	Reflection accessory 5°
			
Auto 8-cell changer	Micro cell holder	Water-jacketed cell holder	Constant-temperature system

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.
- * Imported & 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 Fuctions:

- * **Photometry**
Test Abs, Transmittance by fixed wavelength.
- * **Quantitative**
 - C Mode: EstablishC=K*A curve, test sample concentration.
 - F Mode: Establish A=K1*C+K0, test sample concentration.
 - Display and save curve, test data (V-1200).

Photometry Mode				Con. Test C=K*A+B			
WL: 546.0 T: 100.0				WL: 546.0 C: 10C			
A	T	C	F	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	200~1020nm	325~1000nm	200~1020nm	320~1020nm
Spectral Bandwidth	4nm			
Wavelength Accuracy	±1.8nm		±1.5nm	
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	≤0.1% T @ 360nm; 220nm		≤0.2% T @ 360nm	
Stability	±0.001A/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			
Standard Accessories	10mm glass cuvette*4 units 10mm quartz cuvette*2 units	10mm glass uvette*4 units	10mm glass cuvette*4 units 10mm quartz cuvette*2 units	10mm glass uvette*4 units
Power Supply	110/220V±10%, 60/50Hz			
Packing 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:

- * Data output: Data can be exported to U disk (USB Output).
- * Pre-aligned design ensures the user can change lamps conveniently.
- * With SiO₂ coating optical mirror, reducing the pollution from outside fully.
- * Imported & Environmental Deuterium lamp, preventing from Ozone inhalation.
- * Print port: Instrument can connect PCL printer for printing A4 paper (USB Port).
- * Large LCD screen(480*272 Dots) with 65 thousand true color and support U disk data saving.
- * 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.
- * Adopted high-class grating with wholly hermetic light path design, to ensure the instrument has the super low stray light.
- * Optional PC Software to expand the applications to Quantitative, Multi-Wavelength and Kinetics, Spectrum Scanning, DNA/Protein test.
- * With GLP self-check function, check the wavelength accuracy and Photometry accuracy, can provide test report and power-off protection.



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 $A=K1 \cdot C+K0$, 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 Print and data output, Connect PC			
Standard Accessories	10mm glass cuvette*4 units 10mm quartz cuvette*2 units		10mm glass uvette*4 units	
Power Supply	110/220V±10%, 60/50Hz			
Packing 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

UV/VIS Spectrophotometer

Features:

- * Data output: Data can be exported to U disk (USB Output).
- * Pre-aligned design ensures the user can change lamps conveniently.
- * With SiO₂ coating optical mirror, reducing the pollution from outside fully.
- * Print port: Instrument can connect PCL printer for printing A4 paper (USB Port).
- * Imported & Environmental Deuterium lamp, preventing from Ozone inhalation.
- * Real-time monitoring the lifetime of Deuterium lamp and Tungsten lamp with advanced system.
- * Large LCD screen(480*272 Dots) with 65 thousand true color and support U disk data saving.
- * Wavelength calibration, wavelength setting, change lamp source and dark current calibration automatically.
- * 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, can provide test report and power-off protection.



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 $A=K1 \cdot C+K0$, 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	10mm glass cuvette*4 units 10mm quartz cuvette*2 units	10mm glass uvette*4 units
Power Supply	110/220V±10%, 60/50Hz	
Packing Size(W*D*H) mm	620*500*370	620*500*370
Gross Weight(kg)	18	16.5

Scanning UV/VIS Spectrophotometer

Features:

- * Socket-Type Deuterium lamp and Tungsten lamp.
- * SiO₂ coating optical mirror, reduces the influence from outside.
- * Imported & Environmental Deuterium lamp, preventing from Ozone inhalation.
- * Wavelength calibration, wavelength setting, change lamp source and dark current calibration automatically.
- * High-class grating with wholly hermetic light path design, ensures the instrument has the super low stray light.
- * GLP self-check function:check the wavelength accuracy and Photometry accuracy, provide test report and power-off protection.



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 Print and data output, Connect PC		
Standard Accessories	10mm glass cuvette*4 units, 10mm quartz cuvette*2 units		
Power Supply	110/220V±10%, 60/50Hz		
Packing Size(W*D*H) mm	740*570*440		
Gross Weight(kg)	25		

Double Beam Scanning UV/VIS Spectrophotometer

Features:

- * Socket-Type Deuterium lamp and Tungsten lamp.
- * SiO₂ coating optical mirror, reduces the influence from outside.
- * Real-time monitoring the lifetime of Deuterium lamp and Tungsten lamp.
- * Imported & Environmental Deuterium lamp, preventing from Ozone inhalation.
- * Wavelength calibration, wavelength setting, change lamp source and dark current calibration automatically.
- * High-class grating with wholly hermetic light path design, to ensure the instrument has the super low stray light.
- * GLP self-check function:check the wavelength accuracy and Photometry accuracy,provide test report and power-off protection.



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 Print and data output, Connect PC		
Standard Accessories	10mm glass cuvette*4 units, 10mm quartz cuvette*2 units		
Power Supply	110/220V±10%, 60/50Hz		
Packing Size(W*D*H) mm	740*570*440		
Gross Weight(kg)	25		

Flame Photometer

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
- * LPG as burning gas
- * Direct concentration read-out
- * Measuring range adjustable
- * 7 inch LCD touch screen
- * Automatic Calculation of correlation coefficient
- * Pre-selection of flame sizes
- * Flameout protection device



Technical Parameters:

		BK-FP640	BK-FP6410	BK-FP6430	BK-FP6431	BK-FP6432	BK-FP6440	BK-FP6450
Sensitivity	K	0.01ppm						
	Na	0.01ppm						
	Li	/	/	0.01ppm	/	/	0.1ppm	
	Ca	/	/	/	2ppm	/	2ppm	
	Ba	/	/	/	/	6ppm	/	6ppm
Range	K	0-100ppm						
	Na	0-160ppm						
	Li	/	/	0-100ppm	/	/	0-100ppm	
	Ca	/	/	/	0-1000ppm	/	0-1000ppm	
	Ba	/	/	/	/	0-3000pm	/	0-3000ppm
Linearity	K	0.195ppm (0.39-3.12) ppm						
	Na	0.69ppm (1.15-9.2) ppm						
	Li	/	/	0.15ppm (0.25-5)ppm	/	/	0.15ppm (0.25-5)ppm	
	Ca	/	/	/	3ppm (5-100)ppm	/	3ppm (5-100)ppm	
	Ba	/	/	/	/	9ppm	/	9ppm
Llinearity Error	K	≤0.005mmol/L						
	Na	≤0.03mmol/L						
	Li	/	/	≤0.021mmol/L	/	/	≤0.021mmol/L	
	Ca	/	/	/	≤0.075mmol/L	/	≤0.075mmol/L	
	Ba	/	/	/	/	≤0.066mmol/L	/	≤0.066mmol/L
MDL	K	≤0.004mmol/L						
	Na	≤0.008mmol/L						
	Li	/	/	≤0.015mmol/L	/	/	≤0.015mmol/L	
	Ca	/	/	/	≤0.050mmol/L	/	≤0.050mmol/L	
	Ba	/	/	/	≤0.44mmol/L	/	/	≤0.44mmol/L
Repeatability	1% CV for 20 consecutive samples							
Response Time	<8s							
Sample Uptake	<6L/min							
Ambient Temp	10℃~35℃							
Humidity	≤85%							
Power Supply	AC110/220V±10%, 60/50Hz							
Consumption	250W							
Standard	Air compressor							
Accessory								
Packing Size	580*540*400mm, 18kg							

BK-AA320N Atomic Absorption Spectrophotometer



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 needs not 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
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, 50/60Hz
Packing Size(W*D*H) mm	1250*800*750 (Main instrument) 550*460*1350 (Accessories)
Gross Weight(kg)	150kg (Main instrument) 50kg (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	Printer; Software; Model GA3202 HGA graphite furnace system; Hydride generator;Graphite tubes; Recirculating cooling water system; Hollow cathode lamp(Ag, Au, Ba, Ca, Cd, Cr, Fe, Hg, K, Li, Mg, Mn, Na, Ni, Pb, Zn, Sb, etc)

BK-AA4530F Atomic Absorption Spectrophotometer



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
Wavelength Accuracy	±0.15nm
Wavelength Receptivity	≤0.04nm
Base Line Stability	≤0.002A/30min (Cu)
Characteristic Concentration	0.02µg/ml/1% (Cu)
Detection Limit	0.004µg/ml (Cu)
Measurement Repeatability	≤0.5%
Grating	1800 lines/mm
Inflamer	All-metal titanium burner
Atomizer	Efficient 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, 50/60Hz
Packing Size(W*D*H) mm	850*700*750 (Main instrument); 950*620*1020 (Accessories)
Gross Weight(kg)	105 (Main instrument); 100 (Accessories)
Standard Accessories	PC workstation; HP inkjet printer; Oil free Air compressor; Acetylene reducing valve; Cu Hollow cathode lamp; Air filter
Optional Accessories	Graphite Furnace; Hollow cathode lamp(Ag, Au, Ba, Ca, Cd, Cr, Fe, Hg, K, Li, Mg, Mn, Na, Ni, Pb, Zn, Sb, etc)

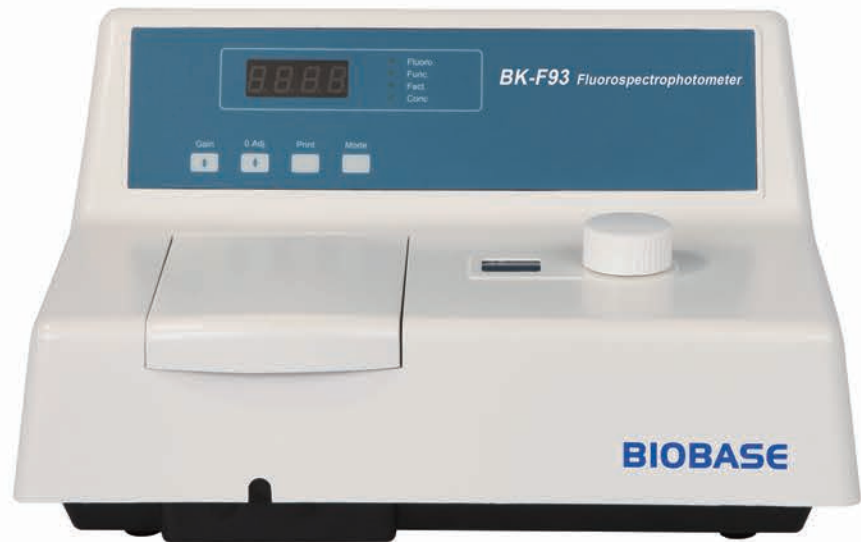
Flame System:

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 unconformity of the burner.

Graphite Furnace(Optional):

Max. Temperature	3000℃
Max Heating Speed	≥2000℃/S
Characteristic Quantity	Cd≤0.5*10-12g Cu≤0.5*10-11g
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	550*450*300
Gross Weight(kg)	65

BK-F93 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.

Features:

- * 1200 line diffraction grating emission monochromator . Its large aperture and non-spherical reflecting mirrors produces extra high sensitivity.
- * 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-F93
Light Source	LED
Exciting Optical Filters	Interference optical filter (10nm bandwidth)
Central Wavelength:	365nm
Emission Monochromator	360-650nm (C-T diffraction grating)
Wavelength Accuracy	±2nm
Wavelength Repeatability	≤1nm
Sensitivity	1*10-9 g/ml (Standard aqua of the sulfuric acid Quinine, 12nm bandwidth)
Linearity Deviation	±3.0%
Power Supply	110/220V±10%, 60/50Hz
Printer	serial printer/Jet printer(for PC)
Packing Size(W*D*H) mm	450*420*280
Gross Weight(kg)	9
Standard Accessories	RS232 serial port, Glass fluorescence cuvette 10mm 1 pair
Optional Accessories	Data processing software package (pack, for PC), Printer(Serial printer/Jet printer)

BK-F96PRO 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.

Features:

- * Two operation modes fluorescence intensity and luminous intensity.
- * 365nm exciting wavelength, Raman peak of water S/N ≥150.
- * 10 stages emission spectrum scanning, including high speed low S/N scanning and precise scanning. Total spectrum scanning could be done in 1 second. With the intelligent prescanning feature, unknown sample's spectrum information could be detected rapidly. Auto-omission of the influence of scattering peak and harmonic peaks, it ensure the best measurement parameters and locate the fluorescence emission peak.
- * Support off-line mode and on-line mode. Under off-line mode, instrument's computer system offer the fluorescence intensity measurement, concentration direct reading, auto zero adjustment, auto background subtraction and etc. Under on-line mode,we could use quality and quantity software to control data acquisition and analysis through USB2.0 interface.
- * High stable and long life 150W xenon lamp and power source ensure high stable testing and wide range of spectrum.
- * The normalized feature for fluorescence value could make different fluorescence's result comparable.
- * Provide optional PC qualitative and quantitative software package with expansible time scanning,wavelength scanning, graphic calculation and storage-access abilities.
- * Optional accessories for different measurement, including single hole cell holder, fluorescence sample holder for different features, 200μl micro scale centrifuge tube, micro scale capillary sample holder, semi-auto sample introduction accessories, membrane sample accessories, powder sample accessories, jacket sample accessories.

Technical Parameters:

Model	BK-F96PRO
Light Source	Hamamatsu 150W Xenon lamp
Exciting Optical Filters	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.
Emission Monochromator	C-T diffraction grating (Em 200-900nm, bandwidth 10nm)
Wavelength Accuracy	±1nm
Wavelength Repeatability	≤0.5nm
Sensitivity	Raman peak of water in 1 cm quartz fluorescence cuvette with S/N≥150
Linear Measurement(r)	≥0.995 r
Stability	better than 1.5%/10min
Response Time	0.1-4s, 6 stages adjustable
Fluorescence Display Value	0.00-600.00
Power Supply	110/220V±10%, 60/50Hz
Packing Size(W*D*H) mm	550*510*365
Gross Weight(kg)	14
Standard Accessories	365nm filter(Preassembled), 1 pc F96PRO software package, 1 pc USB interface, 1 pc Quartz fluorescence sample cell10mm, 1 pair
Optional Accessories	200-700nm interference optical filter (φ25mm) Quartz fluorescence sample cell10mm Personal computer Dedicated serial interface printer

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.

Features:

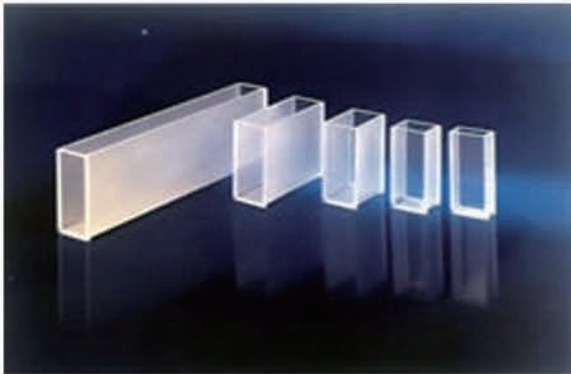
- * Single-channel whole spectrum scanning.
- * Fast scan, wavelength calibrates time from 900nm to 1700nm less than 2 minutes.
- * Built in SCM technology, auto zero adjustment and auto background subtraction.



Technical Parameters:

Model	BK-S410
Wavelength Accuracy	±1nm
Wavelength Reproducibility	≤1nm
Wavelength Scanning Interval	4nm or 8nm or 16 nm
Wavelength Range	900~1700nm
Absorbance Reproducibility	0.002A (at 0.4A)
Signal to Noise Ratio	≥103 (at 1500nm)
Scanning Time	≤2mins
Standard Accessories	1cm quartz square sample cell, 1cm cell holder
Optional Accessories	Laptop
Optical System	Grating monochromator
Detector	InGaAs
Interface	RS232 serial port
Power Supply	110/220V±10%, 60/50Hz
Packing Size	830*570*500mm, 12kg

Standard Type Quartz Cuvette



Quartz cuvette 200/2700nm



SS/Q(With Stopper)



S/Q (With LID)

Features:

- * Two polished windows, two walls, and an open top.
- * The walls and bottom are polished inside and frosted outside.
- * Thickness of windows and the base is 1.25mm.
- * Teflon or glass lid and stopper.

Technical Parameters:

Type	Path Length(mm)	External Size(W*D*H)mm	Volume(ml)	NO. of LID	NO. of Stoppers
S/Q/I	1	12.5*3.5*45	0.4	1	/
S/Q/2	2	12.5*4.5*45	0.7	1	/
S/Q/5	5	12.5*7.5*45	1.7	1	/
S/Q/10	10	12.5*12.5*45	3.5	1	/
S/Q/20	20	12.5*22.5*45	7.0	1	/
S/Q/40	40	12.5*42.5*45	14.0	1	/
S/Q/50	50	12.5*52.5*45	17.5	1	/
S/Q/100	100	12.5*102.5*45	35.0	1	/
SS/Q/I	1	12.5*3.5*48	0.4	/	1
SS/Q/2	2	12.5*4.5*48	0.7	/	1
SS/Q/5	5	12.5*7.5*48	1.7	/	1
SS/Q/10	10	12.5*12.5*48	3.5	/	1
SS/Q/20	20	12.5*22.5*48	7.0	/	1
SS/Q/40	40	12.5*42.5*48	14.0	/	1
SS/Q/50	50	12.5*52.5*48	17.5	/	2
SS/Q/100	100	12.5*102.5*48	35.0	/	2