

Spectrophotometer

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.
- st 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

- a. C Mode: EstablishC=K*A curve, test sample concentration.
- b. F Mode: Establish A=K1*C+K0, test sample concentration.
- c. Display and save curve, test data (BK-V1200).

Photometry Mode

Con. Test C=K*A+B





Technical Parameters:

Model	BK-UV1000	BK-V1000	BK-UV1200	BK-V1200		
Optical System	Single Beam, Grating 1	200 lines/mm				
Wavelength Range	200~1020nm	325~1000nm	200~1020nm	320~1020nm		
Spectral Bandwidth	4nm					
Wavelength Accuracy	±2nm					
Wavelength Repeatability	1nm		0.8nm			
Photometric Accuracy	±0.002A (0~0.5Abs), ±0	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; 22	20nm	≤ 0.2% T @ 360nm; 22	0nm		
Stability	± 0.004A/h@500nm	± 0.004A/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	1				
Detector	Silicon Photodiode					
Light Source	Deuterium Lamp, Tung	sten Lamp				
Input	Membrane Keypad					
Standard Accesseries	10mm glass cuvette*4 units 10mm quartz cuvette*2 units	10mm glass cuvette*4 units	10mm glass cuvette*4 units 10mm quartz cuvette*2 units	10mm glass cuvette*4 units		
Optional Accessories	4-place Cell holder, Pri	nter, Test tube holder, D	euterium lamp, Halogen	lamp		
Power Supply	110/220V±10%, 60/50Hz					
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		



Spectrophotometric Colorimeter

Application:

Spectrophotometric colorimeter is widely used in plastic, electronic, painting, coating, ink, textile, garment, printing and dyeing, food, medical, cosmetic, industries, scientific research institutes, schools and laboratories. It can measure reflectance spectrum and other color index precisely. BCM-810 spectrophotometer not only can help to perform color matching and color management studies, but also can control product quality management accurately. The instrument is equipped with high-end color management software which can connect PC to achieve more extension functions.



Technical Parameters:

Model	BCM-810
Illumination/Observation System	d/8(diffused illumination, 8-degree viewing angle) Conforms to CIE No.15, GB/T 3978
Integrating Sphere Size	Ф58mm
Light Source	Combined LED sources
Sensor	Silicon photodiode array
Wavelength Range	400~700nm
Wavelength Pitch	10nm
Reflectance Range	0~200%
Measuring Aperture	Ф8тт
Color Space	CIE LAB, XYZ, Yxy, LCh, CIE LUV, LAB&WI&YI
Color Difference Formula	ΔE*ab, ΔE*uv, ΔE*94, ΔE*cmc(2:1), ΔE*cmc(1:1), ΔE*cmc(l:c), CIE2000ΔE*00, ΔE(h)
Other Ohannatish Data	WI(ASTM E313, CIE/ISO, AATCC, Hunter), YI(ASTM D1925, ASTM 313),
Other Chromaticity Data	Metamerism index (Mt), Color strength color stain, Color fastness
Data	Metamerism Index (Mt), Color Strength Color Stain, Color Fastness
Observer	2°/10°
Illuminant	D65, D50, A, C, D55, D75, F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, F11, F12

Model	BCM-810			
Display Data	Spectral value/Graph, Colorimetric value, Color difference value/Graph, Pass/Fail result, Color offset, Color simulation, Color index setting(ΔΕ*94, ΔΕ*cmc, ΔΕ2000), Tolerance prompt, Reverse prompt, Time setting, Language seting, Restore factory setting			
Measurement Time	1.5s			
Repeatability	Spectral reflectance: Standard deviation within 0.1%(400~700nm: within 0.2%) Colorimetric value: Standard deviation within ΔE*ab 0.04 (Measurement conditions: White calibration plate measured 30 times at 5 seconds intervals after white calibration was performed.)			
Inter Instrument Agreement	Within ΔE*ab 0.2 (Average for 12 BCRA Series II color tiles)			
Battery	Li-ion battery. 2800 times within 8 hours.			
Lamp Life	5 years, more than 1.6 million measurements			
Display	3.5 inch TFT LCD, Capacitive touch screen			
Interface	USB/RS-232			
Data Memory	1000 Standards, 15000 Samples			
Ambient Temp.	0~40°C (32~104°F)			
Storage Temp.	-20~50°C (-4~122°F)			
Standard Accessory	Power adapter, Li-ion battery, Operating instruction, CD-ROM (Containing management software), Data line, White and black calibration cavity, Protective cover and wrist strap			
Optional Accessory	Universal test components, Micro printer, Powder test box			
External Size(W*D*H) 90*77*230mm				
Package Size(W*D*H)	460*250*380mm			
Net Weight	600g			
Gross Weight	9.5kg			
Notes	The specifications are subject to change without notice			



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 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 cel		
Optional Accessories	Laptop		
Power Supply	110V/220±10%, 60/50Hz		
Packing size	360*460*240mm		
Gross Weight	12kg		



BK-AA4530F Atomic Absorption Spectrophotometer



Standard Aeecssories:





PC Workstation



Oil free air compressor

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 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, 50Hz		
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 4510GF; Hollow cathode lamp(Ag, Au, Ca, Cd, Cr, Fe, Hg, K, Au, 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°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	



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.
- $\ *\ \mathsf{LED}\ \mathsf{is}\ \mathsf{a}\ \mathsf{cold-light}\ \mathsf{source}\ \mathsf{with}\ \mathsf{longevity},\ \mathsf{lower}\ \mathsf{background}\ \&\ \mathsf{reliability},\ \mathsf{prevent}\ \mathsf{from}\ \mathsf{thermo-pollution}.$
- * 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		
	Interference optical filter	LED options		
	a) Standard set is equipped with an	a) Standard set includes LED at wavelengt		
	interference optical filter of	365nm		
- · · · · · · · · ·	central wavelength at 365nm and 10nm	b) The A set includes LED wavelength at		
Excitation filter	bandwidth	365nm, 376nm, 392nm, 405nm		
	b) An optional interference optical filer of	c) Customizable wavelength from 360nm		
	25mm diameter of wavelength of 250~700nm	to 600nm		
	can be provided on users demand.			
	C-T diffraction grating (Em 200~900nm,	000 050 (0.7)		
Emission Monochromator	bandwidth 10nm)	360~650nm (C-T diffraction grating)		
Wavelength Accuracy	±1nm	±2nm		
Wavelength Repeatability	≤0.5nm	≤1nm		
Canalityday	Raman peak of water in 1 cm quartz	1*10-9g/ml (Standard aqua of the sulfuric		
Sensitivity	fluorescence cuvette with S/N≥150	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	450*420 *310	380* 420 *240		
Gross Weight(kg)	14	9		



UV/VIS Spectrophotometer Accessories



Standard Type Quartz Cuvette









S/Q (With LID) SS/Q(With Stopper)

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:

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Туре	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	1
S/Q/2	2	12.5*4.5*45	0.7	1	1
S/Q/5	5	12.5*7.5*45	1.7	1	1
S/Q/10	10	12.5*12.5*45	3.5	1	1
S/Q/20	20	12.5*22.5*45	7.0	1	1
S/Q/40	40	12.5*42.5*45	14.0	1	1
S/Q/50	50	12.5*52.5*45	17.5	1	1.
S/Q/100	100	12.5*102.5*45	35.0	1	1
SS/Q/I	1	12.5*3.5*48	0.4	1	1
SS/Q/2	2	12.5*4.5*48	0.7	1	1
SS/Q/5	5	12.5*7.5*48	1.7	1	1
SS/Q/10	10	12.5*12.5*48	3.5	1	1
SS/Q/20	20	12.5*22.5*48	7.0	1	1
SS/Q/40	40	12.5*42.5*48	14.0	1	1
SS/Q/50	50	12.5*52.5*48	17.5	1	2
SS/Q/100	100	12.5*102.5*48	35.0	1	2

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



Technical Parameters:

Model		BK-FP640	BK-FP6410	BK-FP6430	BK-FP6431	BK-FP6440	BK-FP6450		
	K	0.01ppm		·	*				
	Na	0.01ppm							
Sensitivity	Li	1	1	0.01ppm	1	0.1ppm			
	Ca	1	1	1	2ppm	2ppm			
	Ba	1	1	1	1	1	6ppm		
	K	0~100ppm							
	Na	0~160ppm							
Range	Li	1	1	0~100ppm	1	0~100ppm			
	Ca	1	1	1	0~1000ppm	0~1000ppm			
	Ва	1	1	1	1	1	0-3000ppm		
	K	0.195ppm (0.3	9~3.12) ppm						
	Na	0.69ppm (1.15	~9.2) ppm						
Linearity	Li	1	1	0.15ppm(0.25~5)ppm	1	0.15ppm(0.25~	-5) p pm		
	Ca	1	1	1	3ppm(5~100)ppm	3ppm(5~100)p	pm		
	Ва	1	1	1	1	1	9ppm		
	K	≤0.195ppm							
	Na								
Llinearity Error	Li	1	1	≤0.147ppm	1	≤0.147ppm			
	Ca	1	1	1	≤3ppm	≤3ppm			
	Ba	1	1	1	1	1	≤9.042ppm		
	K	≤0.156ppm		*					
	Na	≤0.184ppm							
MDL	Li	1	1	≤0.105ppm	1	≤0.105ppm			
	Ca	1	1	1	≤2ppm	≤2ppm			
	Ва	1	1	1	≤60.28ppm	1	≤60.28ppm		
Repeatability	1%	CV for 20 conse	cutive samples						
Response Time	<8s								
Sample Uptake	<6n	<6ml/min							
Ambient Temp	10℃~35℃								
Humidity	≤85%								
Power Supply	oly AC110/220V±10%, 60/50Hz								
Consumption	250	W							
Standard Accessory	Air	compressor							
Package Size	770	*560*390mm							
Gross weight	22k	9							



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 * Scanning curve, parameters settings.
- c. Can save 240 group curves, can test 240 data in each
- d. Double wavelength, Triple wavelength test functions.

* Kinetics

Used for time course scanning or reaction rate calculations A/t, can search all data.

* Multi-Wavelength

Can test Transmittance and Abs. with 8 different wavelengths at most.

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.

DNA/Protein, (Optional: UV, Lowry, BCA, CBB and Biuret)

Technical Parameters:

Model	BK-S360	BK-S380	BK-S390			
Optical System	Single Beam, Gratin	g 1200 lines/mm	.,			
Wavelength Range	190~1100nm	•				
Spectral Bandwidth	1.8nm	1nm	0.5, 1, 2, 4, 5nm			
Wavelength Accuracy	±0.3nm		- 17			
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	s), 0.002Abs (0.5~1.0Abs), ≤0.1	1% T (0~100% T)			
Stray Light	≤0.04% T @ 360nm	; 220nm				
Stability	±0.001A/h @ 500nm	1				
Baseline Flatness	±0.0015A					
Noise	±0.0004Abs					
Display	65 thousand true col	lor 7 inch TFT LCD (480*800)				
Photometric Mode	T, A, C, E					
Photometric Range	0~200% T, -0.301~3.0A					
Detector	Silicon Photodiode	Silicon Photodiode				
Light Source	Deuterium Lamp, Tungsten Lamp					
Input	Membrane Keypad					
Output	USB Print and data	output, Connect PC				
Standard Accesseries	10mm glass cuvette	*4 units 10mm quartz cuvette	*2 units,software			
	Single cell holder, G	eneral cell holder, Test tube ho	older, Solid sample holder, Deuterium			
Outional Assessment	lamp, Halogen lamp, 4-place Cell holder, Printer, Water-jacketedcell holder, Reflection					
Optional Accessories	accessory 5°, Auto 8-cell changer, Micro cell holder, Water-jacketed cell holder,					
	Constant-temperature system					
Power Supply	AC110V/220±10%, 6	60/50Hz				
Package Size(W*D*H) mm	740*570*440	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 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 to test the max. Abs. peak value, can do derivation, arithmetical operations to the graph.

6 methods: DNA/Protein, UV, Lowry, BCA, CBB and Biuret.

Technical Parameters:

Model	BK-D560	BK-D580	BK-D590			
Optical System	Double Beam, Grati	ng 1200 lines/mm				
Wavelength Range	190~1100nm	7				
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	s), 0.002Abs (0.5~1.0Abs), ≤0.29	% T (0~100% T)			
Stray Light	≤0.04 T @ 360nm; 2	220nm				
Stability	±0.0003A/h @ 500n	ım				
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% T0.301~3.0A					
Detector	Silicon Photodiode					
Light Source	Deuterium Lamp, Tu	ungsten Lamp				
Input	Membrane Keypad					
Output	USB Print and data	output, Connect PC				
Standard Accessories	10mm glass cuvette	*4 units 10mm quartz cuvette *	2 units,software			
	Single cell holder, G	eneral cell holder, Test tube hold	der, Solid sample holder, Deuterium			
0-6	lamp, Halogen lamp, 4-place Cell holder, Printer, Water-jacketedcell holder, Reflection					
Optional Accessories	accessory 5°, Auto 8-cell changer, Micro cell holder, Water-jacketed cell holder,					
	Constant-temperature system					
Power Supply	AC110V/220±10%, 60/50Hz					
Package Size(W*D*H) mm	740*570*440					
Gross Weight(kg)	25					



UV/VIS Spectrophotometer

Features:

- * With Si02 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 ratecalculations △A/t, can search all data.
- * Multi-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
- Can test Transmittance and Abs. with 8 different wavelengths c. Can save 240 group curves, can test 240 data in each
 - d. Double wavelength, Triple wavelength test functions.

Technical Parameters:

Model	BK-UV1800	BK-UV1600	BK-V1800	BK-V1600			
Woder	BK-UV1800PC	BK-UV1600PC	BK-V1800PC	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	≤0.3nm						
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	≤ 0.05% T @ 360nm	220nm	≤ 0.05% T @ 360nr	m; 220nm			
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.	0~200% T, -0.301~3.0A					
Detector	Silicon Photodiode						
Light Source	Deuterium Lamp, Tur	Deuterium Lamp, Tungsten Lamp					
Input	Membrane Keypad						
Output	USB Print and data of	utput, Connect PC					
Standard Accesseries	10mm glass cuvette*	4 units	40	at d combine			
Standard Accesseries	10mm quartz cuvette*2 units		10mm glass cuvette*4 units				
	Single cell holder, Ge	eneral cell holder, Test					
	tube holder, Solid sai	ube holder, Solid sample holder, Deuterium					
	lamp, Halogen lamp,	4-place Cell holder,	4 -1 0-1111	Deleter Track to be believe			
Optional Accessories	Printer, Water-jacketed cell holder,		4-place Cell holder, Printer, Test tube holde				
Ž.		5°, Auto 8-cell changer,	Deuterium lamp, Halogen lamp				
	Micro cell holder, Water-jacketed cell holder,						
	Constant-temperature system						
Power Supply	AC110/220V±10%, 6						
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:

- * 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
- d. Double wavelength, Triple wavelength test functions.

* Kinetics

Used for time course scanning or reaction rate calculations $\triangle A/t$, 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-V1900		
Model	BK-UV1900PC	BK-V1900PC		
Optical System	Single Beam, Grating 1200 lines/mm			
Wavelength Range	190~1100nm 320~1100nm			
Spectral Bandwidth	2nm	1		
Wavelength Accuracy	±0.5nm			
Wavelength Repeatability	≤0.3nm			
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	5~1.0Abs), ≤0.2% T (0~100% T)		
Stray Light	≤ 0.05% T @ 360nm; 220nm			
Stability	± 0.0008A / h @ 500nm			
Baseline Flatness	±0.002A			
Noise	0.0005Abs @ 500nm			
Display	480*272 65 thousand true color TFT	r LCD		
Photometric Mode	T, A, C, E			
Photometric Range	0~200% T0.301~3.0A			
Detector	Silicon Photodiode			
Light Source	Deuterium Lamp, Tungsten Lamp			
Input	Membrane Keypad			
Output	USB Print and data output, Connect	PC		
Standard Accesseries	10mm glass cuvette*4 units	10		
Standard Accesseries	10mm quartz cuvette*2 units	10mm glass cuvette*4 units		
	Single cell holder, General cell holder	er, Test tube holder, Solid sample holder, Deuterium		
Optional Accessories	lamp, Halogen lamp, 4-place Cell ho	older, Printer, Water-jacketedcell holder, Reflection		
Optional Accessories	accessory 5°, Auto 8-cell changer, N	Micro cell holder, Water-jacketed cell holder,		
	Constant-temperature system			
Power Supply	AC110V/220±10%, 60/50Hz			
Package Size(W*D*H)mm	620*500*370	620*500*370		
Gross Weight(kg)	18	16.5		



BK-P2S Digital Automatic Polarimeter BK-P2B Automatic Polarimeter



Features:

- * LCD Display
- * Storage of three times results and calculation of average values
- * Dark-colored sample can be measured
- * Photoelectric test and automatic servomechanism control

Technical Parameters:

Model	BK-P2S	BK-P2B			
Light Source	LED lamp				
Measuring Range	±45°(optical rotation) /±120°Z(sugar) ±45°(optical rotation)				
Wavelength	589nm				
Readable Accuracy	0.001°(optical rotation)0.01°Z(sugar)	0.002°(optical rotation)			
Measuring Accuracy	±(0.01+measurement value*0.05%)°(optical rotation) ±(0.03+measurement value*0.05%)°Z(sugar)	±(0.01+measurement value*0.05%)°			
Repeatability	≤0.002°(optical rotation)	≤0.01°(optical rotation)			
Test Mode	Optical rotation, sugar degree	Optical rotation			
Test Tube	200mm, 100mm				
Sample Transmittance	>1% >10%				
Interface	RS232				
Power Supply	AC110/220V±10%, 50/60Hz				
External Size(W*D*H)	570*350*280mm				
Package Size(W*D*H)	730*480*470mm				
Gross Weight	36kg				

Disc Polarimeter

Features:

- * Visual aim
- * Manual measure
- * Easy to operate



Technical Parameters:

Model	BK-P4		
Light Source	Sodium lamp / LED		
Wavelength	589.44nm		
Measuring Range	-180° ~ +180°		
Division Value	1°		
Venire Readable Accuracy	0.05°		
Magnifying Factor of the Magnifying Glass	4 X		
Test Tube	200mm, 100mm		
Power Supply	AC110/220V±10%, 50/60Hz		
External Size(W*D*H)	440*110*230mm		
Package Size(W*D*H)	600*220*400mm		
Gross Weight	7.6kg		

Optional Polarimeter Accessories

* Micro Tube

With sample loading capacity less than 0.8ml and length of 50mm, suitable for BK-P2S,BK-P1 automatic polarimeter.

* Heated Tube

Dedicated to BK-P2,BK-P3 for the length of about 100mm, the sample loading is 1.98ml; for length of 50mm, sample loading is about 0.99ml, and the non-corrosive type is optional to purchase.

* Standard Quartz Tube

The only calibration equipment for standard polarimeter and optical Brix; with stable performance, less influence by the environment, and easy-to-use features, The loading of quartz tube includes±1°, ±5°, ±7°, ±34° and ±68°, for customer to choose accordingly.





Polarimeter

Polarimeter









Features:

- * Automatic calibration function, to calibrate optical rotation via five standard points(BK-P810A, BK-P850A).
- * Peltier temperature control; temperature range: 15~30°C, temperature accuracy: ±0.3°C(BK-P850, BK-P850A).
- $\,$ $\,$ $\,$ $\,$ $\,$ $\,$ $\,$ $\,$ 5.6" color touch screen for displaying and operating, WINDOWS operating interface.
- * Wide measuring range: optical rotation: ±89.99°, optical specific rotation: 259°Z.

Technical Parameters:

Model	BK-P810	BK-P810A	BK-P810Pro	BK-P850	BK-P850A	BK-P850Pro	
Light Source	LED lamp	LED lamp					
Measuring Range	±89.99°, 259°2	Z					
Wavelength	589.3nm						
Readable Accuary	0.001°						
Measuring Accuracy	0.02°						
Repeatability	0.002°						
Sample Transmittance	> 0.1%						
Temp. Control Range	١			Built in Peltier,	15 -30°C, ±0.3	°C	
Test Mode	Optical rotation	n, optical specifi	c rotation, concent	ration, sugar sca	ale Z		
Display	5.6" color touc	5.6" color touch screen; (8" color touch screen for BK-P810Pro/850Pro)					
Data Storage Capacity	1000sets; (80	BB for BK-P810F	Pro/850Pro)				
Interface	RS232 or USE	3; Excel format a	nd "Blue Ocean" f	ormat; (WI-FI for	BK-P810Pro/8	50Pro)	
Atlas Duration	4 Hours only fe	or BK-P810Pro/F	P850Pro				
Power Consumption	250W						
Power Supply	AC220V±10%	AC220V±10%, 50Hz					
External Size(W*D*H)	708*330*287mm						
Package Size(W*D*H)	840*455*445mm						
Gross Weight	30kg			40kg			
• " A" in BK-P810A and	BK-P850A mear	automatic calib	rate optical rotatio	n.			

Automatic Polarimeter





Features:

- * LCD Display
- * Photoelectric test and microcomputer control.
- * Preheating is not needed. (Only for BK-P1 and BK-P2 Model).
- * Dark-colored sample can be measure. (Only for BK-P1 and BK-P2 Model).
- * Automatic repetition-measurement for 6 times, and calculation of average value and means square root.
- st Sample chamber adopts constant temperature designing in order to reduce the temperature heating influence.

Technical Parameters:

Model	BK-P1	BK-P2	BK-P3		
Light Source	LED lamp	Sodium lamp			
Measuring range	±45°(optical rotation) /±120°	Z(sugar)			
Wavelength	589nm				
Readable Accuracy	0.001°(optical rotation)		0.001°(optical rotation) 0.01°Z(sugar)		
Measuring Accuracy	±0.01°(-15°≤ optical rotation ±0.02°(optical rotation < -15	±(0.01+measurement value*0.05%)°(optical rotation)			
Repeatability	0.002°(optical rotation)	≤0.003°(optical rotation)			
Sample Transmittance	>1%		1		
Temperature Control Range	1	15~30℃	1		
Temperature Accuracy	±0.5℃		T		
Test Mode	Optical rotation, specific rotal	tion, concentration,sugar degre	ee		
Test Tube	200mm, 100mm	200mm, 100mm, 100mm (Constant Temperature tube)	200mm,100mm		
Interface	USB&RS232	•	RS232		
Power Supply	AC110/220V±10%, 50/60Hz				
External Size(W*D*H)	690*370*280mm		570*350*280mm		
Package Size(W*D*H)	850*500*470mm		850*500*470mm		730*480*470mm
Gross Weight	38kg		36kg		



ABBE Digital Refractometer

Features for BK-RZT:

- * Full automatic measuring
- * Touch Screen
- * LCD temperature display, automatic correction and saving the data
- * Standard RS232 and USB interface

Features for BK-R2S:

- * Hard glass prism
- * Standard RS232 interface
- * Measure the Brix of sugar solution
- * Visual aim and LCD display
- * Automatic correcting of the effect of temperature on the Brix
- * Measuring refractive index nD of transparent or translucent liquid and solid substances.



Technical Parameters:

Model	BK-RZT	BK-R2S	
Measuring Range	1.30000~1.70000nD Brix: 0-100%	1.3000~1.7000nD Brix: 0-100%	
Measuring Resolution	±0.00001nD Brix: ±0.01%	±0.0001nD	
Measuring Accuracy	±0.0002nD Brix: ±0.1%	±0.0002nD Brix: ±0.1%	
Test Mode	8	1	
Temperature Control Range	0~60℃	0~50℃	
Temperature Resolution	0.1℃		
Temperature Accuracy	0.5℃		
Interface	RS232, USB	RS232	
Display	7" LCD touch screen LCD		
Prism	Hard glass		
Power Supply	AC110/220V±10%, 50/60Hz		
External Size(W*D*H)	340*200*110mm	210*110*310mm	
Package Size(W*D*H)	500*330*220mm	370*240*470mm	
Gross Weight	9kg	12kg	

Portable Refractometer

Application:

Low Range: fruit juice, tomato juice, cola and most kinds of beverage Middle Range: concentrated fruit juice, canned food, sugar solution inclusions, sauce, ketch up, seasoning and many kinds of industry fluids High Range: liquid sugar, honey etc.



They can be used for industry fluid testing, such as for vegetable oils, industry, and many other chemical liquids or laboratory use fluids

Technical Parameters:

	Model	Range	Minimum Scale	Package Size(W*D*H)	Gross Weigh
	BK-PR5	0~5%	0.1%		
	BK-PR10	0~10%	0.1%		
	BK-PR18	0~18%	0.1%		
	BK-PR20	0~20%	0.1%		
	BK-PR32	0~32%	0.2%		
Brix	BK-PR50	0~50%	0.5%		
	BK-PR60	0~60%	0.5%		
	BK-PR62	28~62%	0.2%		
	BK-PR82	45~82%	0.5%		0.15kg
	BK-PR92	58~92%	0.2%		
	BK-PR80	0~80%(1 ranges)	0.5%	155*25*40mm	
	BK-PR90	0~90%(1 ranges)	0.5%		
	BK-PRN3	58~92% Brix	0.5% Brix		
Honey		38~43 oBe'	0.5 oBe'		
		12~27% Water	1% Water		
	0~100‰	1‰			
	BK-PRA1	1.000~1.070	0.005		
	BK-PRA2	0~28%	0.2%		
	BK-PRA3	0~35%	0.5%		
Salinity	BK-PRA4	0~40 PPT	1‰		
		0~100‰ Salinity	1‰		
	BK-PRS1	1.000~1.070	0.005		
		0~10% Brix	0.1%		
	DIV DDOO	0~28% Salinity	0.2%		
	BK-PRS2	0~32% Brix	0.2%		



Portable Pulse Oximeter





BK-PO1

Features:

- * Monitor SpO2, Pulse Rate & Temperature.
- * Audio and visual alarm when the parameter range is exceeded or the sensor is off.
- * Common AA alkaline batteries, support 7 consecutive working hours(only for BK-PO1).
- * Built-in rechargeable Li-ion battery, up to 15-hour running time(only for BK-PO2).
- * Bluetooth wireless is very convenient to realize reviewing the measurements in big screen via connecting PC and to upload history data to PC for review, printing or storage (only for BK-PO2).
- st Unique software for remote monitoring via synchronous data transfer (only for BK-PO2).

Technical Parameters:

Model	BK-PO1	BK-PO2		
Display	LED	LCD		
	Patient range: adult, child and neonate			
	Measurement range: 35%~99%	0%~100%		
SpO2	Resolution: 1%			
	Accuracy: 2% (70%~99%); unspecified (09	%~69%)		
	Measurement range: 30bpm~250bpm	0bpm~250bpm		
Pulse Rate	Resolution: 1bpm			
	Accuracy: 2bpm			
	Channel: 1			
T	Input: body surface thermal-sensitive resistor temperature sensor			
Temperature	Range: 0°C~50°C			
(only for BK-PO2)	Resolution: 0.1℃			
	Accuracy: 0.2℃			
Davis Const.	Common 1.5V AA alkaline batteries (only t	for BK-PO1)		
Power Supply	D.C. 3.7V/3000mAH Li-ion rechargeable b	attery (only for BK-PO2)		
		Oximeter main unit, Adult finger SpO2 sensor,		
Standard Accessories	Oximeter main unit,	Skin surface skin TEMP probe,		
Standard Accessories	Adult finger SpO2 sensor	USB communication cable, Bluetooth radio,		
		VSDV/Guardian/Bluetooth software disk		
Package Size(W*D*H)	220*150*70mm			
Gross Weight	1.0kg			

Refractometer

Refractometer

Application:

BK-R670 Automatic Refractometer includes high-performance CCD light-sensitive part, can accurately and efficiently process sample analysis tests through unique signal acquisition, analysis and processing technology.



Features:

- st Cloud service system, connecting cloud database with instruments;
- * 7" LCD touch screen and innovative WINDOWS software interface
- * 2 USB ports, RS232 port and internet port for connecting printer or internet, U disk and SD card port for data exporting.
- * Perfect measuring prism

Measuring prism is made of high hardness sapphire glass, of excellent properties against corrosion and scratches, free for clean and durable.

- * Ultra long life light source
- It adopts High brightness LED lights with service life exceeding 100000 hours
- * Auto temperature control system

It adopts Peltier temperature control system, make sure the whole testing with accuracy and constant temperature.

Technical Parameters:

Model	BK-R670				
Refractive Index Measuring Range	1.30000~1.70000nD				
Measuring Error	±0.0001nD				
Measuring Resolution	0.0001/0.00001nD(Optional)				
Brix Measuring Range	0~100%				
Measuring Error (Brix)	±0.1%				
Measuring Resolution (Brix)	0.1%/0.01%(Optional)				
Temperature Control Mode	Peltier temperature controller				
Temperature Display Range	10~85℃				
Temperature Control Range	5~70°C				
Temperature Control Accuracy	±0.05℃				
Interface	RS232, USB, Ethernet interface				
Data Storage Capacity	4G				
Display	7" TFT LCD touch screen				
Consumption	45W				
Power Supply	AC110/220V±10%, 50/60Hz				
External Size(W*D*H)	365*300*150mm				
Package Size(W*D*H)	480*410*310mm				
Gross Weight	10kg				



Portable Digital Refractometers





PDR-F series

Features:

PDR-series

- * Wide choice-over 20 models available * Automatic temperature compensation
- * Automatic power management
 * With IP65 verification of waterproof and dustproof (only PDR-F series)

Technical Parameters:

Model	Scale	Range	Min. Reading	Accuracy	Temp. Range	Temp. Precision	Power Supply	Packing Size (W*D*H)mm	G.W. (kg)
PDR-35	Brix (%)	0~35%	0.1	±0.2			2 x AAA (1.5V)	135*85*40	
PDR-35	Refractiv Index	1.3330~1.3900	0.0001	±0.0003	- 0°C~40°C (32°F~ - 104°F)	± 0.5°C(1°F)			0.3
PDR-45	Brix (%)	0~45%	0.1	±0.2					
	Refractiv Index	1.3330~1.4098	0.0001	±0.0005					
PDR-85	Brix (%)	0~85%	0.1	±0.5					
	Refractiv Index	1.3330~1.5100	0.0001	±0.0003					
PDR-92	Brix (%)	58~92%	0.1	±0.2					
	Refractiv Index	1.4370~1.5233	0.0001	±0.0003					
PDR- HN1	Brix (%)	58~92%	0.1	±0.2					
	° B, e	38~43	0.1	±0.2					
	Water (IHC2002)	13~25	0.1	±0.2					
	Refractiv Index	1.4370~1.5233	0.0001	±0.0003					
PDR-HN2	Brix (%)	58~92%	0.1	±0.2					
	°B, e	38~43	0.1	±0.2					
	Water (IHC2002)	17~27	0.1	±0.2					
	Refractiv Index	1.4370~1.5233	0.0001	±0.0003					
PDR-A1	Salinity	0~28%	0.1	±0.2					
	Ref ractiv Index	1.3330~1.3900	0.0001	±0.0003					
PDR-S1	Brix (%)	0~35%	0.1	±0.2					
	Salinity	0~28%	0.1	±0.2					
	Refractiv Index	1.3330~1.3900	0.0001	±0.0003					

Technical Parameters:

Model	Scale	Range	Min. Reading	Accuracy	Temp.	Temp. Precision	Power Supply	Packing Size (W*D*H)mm	G.W.
	SERUM P. (g/dl)	1.000~1.050	0.001	±0.001				Ny Size (W*D*H)mm	
PDR-R1	URINE SP.G	0~12g/dl	0.1	±0.1					
	Refractiv Index	1.3330~1.3900	0.0001	±0.0003					
PDR-R2	SERUM P. (g/dl)	0~14g/dl	0.1	±0.1					
	URINE SP.G (dog)	1.000~1.060	0.001	±0.001					
	Refractiv Index	1.3330~1.3900	0.0001	±0.0003					
	SERUM P. (g/dl)	0~14g/dl	0.1	±0.1					
PDR-R3	URINE SP.G (cat)	1.000~1.060	0.001	±0.001					
	Refractiv Index	1.3330~1.3900	0.0001	±0.0003					
PDR-L1	Alcohol	0~60%v/v	0.1	±0.3					
PDR-L2	Alcohol	0~60%w/w	0.1	±0.5					0.3
	Brix (%)	0~35%	0.1	±0.2	0°C~40°C (32°F ~104°F)	± 0.5°C(1°F)	2 x AAA (1.5V)		
	VOL AP (%)	0~22%	0.1	±0.2					
PDR- FWN1	Oe (Germany)	30~150	1	±1					
	KMW	0~25	0.1	±0.2					
	Brix (%)	0~35%	0.1	±0.2					
	VOL AP (%)	0~22%	0.1	±0.2					
PDR-FWNZ	Oe (Germany)	30~150	1	±1					
	KMW	0~25	0.1	±0.2					
	Brix (%)	0~35%	0.1	±0.2					
PDR-R2 PDR-R3 PDR-L1 PDR-L2 PDR-FWN1 PDR-FWN2 PDR-FWN2	VOL AP (%)	0~22%	0.1	±0.2					
	Oe (Switzerland)	0~150	1	±1					
	KMW	0~25	0.1	±0.2					
PDR-FK1	Soybean milk concentration	0~35%	0.1	±0.3					
	Glycol	32~-50°F	0.1 °F	±1 °F					
PDR-FC1	Propanediol	32~-50°F	0.1 °F	±1 °F					
	Battery fluid	1.00~1.50sg	0.01 sg	± 0.01 sg					
	Glass water	32~-40°F	0.1 °F	±1 °F					
PDR-FC2	Glycol	0~-50°C	0.1°C	±1 °F					
	Propanediol	0~-50°C	0.1 °C	±1 °F					
	Battery fluid	1.00~1.50sg	0.01 sg	± 0.01 sg					
	Glass water	0~-40°C	0.1 °C	±1 °C					