



“拜尔控”牌 分光光谱仪 “BIOCHROM” Spectrophotometers

英国制造
Made in England

Libra S50 / S60 / S70 / S80 UV/Vis Spectrophotometers 紫外光 / 可见光分光光谱仪

Stand Alone Model 独立操控型

- Color touch screen display - Full control of all instrument parameters
- USB interfaces for data storage and export
- Full suite of software applications provided as standard - Single wavelength measurement in Absorbance, % Transmission and concentration measurements using factors, Wavelength scanning, Calibration curves, Kinetics, Pre-stored Life Science applications, etc
- Method storage with password protection and multi-level user login
- Equation Editor
- Choice of data export methods to PC using USB, to PC using Bluetooth or to thermal printer



S80



Instrument Software 内置软件



Easy Changing Accessories
更换配件十分容易



Color touch screen display
彩色触摸屏



Easy Access USB port
USB 端口

PC Control Model 电脑操控型

- Using an external PC to control the spectrophotometer and manipulate data gives the ultimate in flexibility and control.
- Resolution software in different modules for different customers' need:
 1. **Resolution Lite** - for Quick Read and fast scanning only
 2. **Resolution** - for all routine measurements
 3. **Resolution Life Science** - for nucleic acids, proteins and cell density measurements
 4. **Resolution CFR** - if you need full 21 CFR part 11 compliance



S80PC



Resolution Software
外置 PC 软件



Cell changer 试管座



Temperature controlled cell holder
温控试管座

Software Module 软件功能	Stand-alone Instrument Software	Resolution Lite	Resolution	Resolution Life Science	Resolution CFR
Single Wavelength Measurement	Fixed wavelength, Abs/%T, Concentration (factor)		Single or multiple wavelength measurements in Absorbance, % Transmission or concentration including full instrument control, batch processing of sample data and calculations on collected data		
Wavelength Scanning	Sample overlays, automatic feature detection and post run data manipulation		Sample overlays, automatic feature detection and post run data manipulation, spectral scans and spectral arithmetic manipulations		
Concentration Standard Curve	Quantitation using calibration curves with multiple standards and a choice of curve fits	---	Generation of calibration curves including full instrument and accessory control, choice of line fit, QC limit testing and statistical analysis of sample data		
Kinetics	Serial (or parallel measurements with the optional cell changer) including sample overlays and post run data manipulation	---	Absorbance versus time measurements on single or multiple cells (with optional cell changer), multiple sample overlays, batch processing of sample data and post run sample calculations and manipulations		
Validation	---	Software module that allows users to enter and store full details of their Certified Reference Materials (CRMs) and schedule tests to be carried out at defined intervals to meet their Standard Operating Procedures. Users are prompted to insert the specified CRM at the scheduled time and the system automatically checks the performance against the instrument specification.			
Life Science Methods	DNA, RNA & Oligo concentration and purity measurement with optional wavelength scanning. CyDye™ DNA quantitation. Tm calculation. Protein concentration by direct UV measurement or Bradford, Biuret, Lowry or BCA colorimetric methods	---	---	DNA, RNA & Oligo concentration & purity measurement Protein quantitation via direct UV methods or BCA, Biuret, Bradford, Lowry & Colloidal Gold methods Cell Density measurement	
Custom Method Development	Equation Editor allows the set up of stored methods include calculations based on measured sample data e.g. Absorbance ratio and difference.	---	The Method Developer module allows custom methods to be set up in all applications. These can include sample prompts containing information such as method SOP timings and the ability to lock individual method parameters		
21 CFR Part 11 Compliance	---	---	---	---	Ability to set up different users as part of defined groups. Audit trail. Electronic signature

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Libra S50 / S60 / S70 / S80 UV/Vis Spectrophotometers 紫外光 / 可见光分光光谱仪

S50 / S60 系列

- Long life Xenon lamp technology for low cost of ownership
- All application software is built in – no extra modules to buy
- Multi-user analytical instrument with secure login
- Custom calculation facility using Equation Editor
- Large sample compartment making changing accessories easy
- Built in Life Science methods including nucleic acid concentration and purity

S70 系列

- Fully European Pharmacopoeia compliant system
- Password login to protect methods
- High performance system with narrow bandwidth for precise analysis (toluene hexane ratio of >2.0)
- Optional validation logbook for IQ/OQ/PQ

S80 系列

- High performance variable bandwidth UV-Visible spectrophotometer
- Full European Pharmacopoeia compliance
- 21 CFR part 11 compliance using Resolution CFR
- Custom calculation facility for method development in the Resolution Software
- Wide range of accessories that are easily changed

Specification 规格

Model 型号	S50	S50PC	S60	S60PC	S70	S70PC	S80	S80PC
Order Code 订货编号	Standard 80-7000-01	80-7000-00	80-7000-11	80-7000-10	80-7000-21	80-7000-20	80-7000-31	80-7000-30
	w/ printer 80-7000-02		80-7000-12		80-7000-22		80-7000-32	
	w/ bluetooth 80-7000-03		80-7000-13		80-7000-23		80-7000-33	
	w/ printer+bluetooth 80-7000-04		80-7000-14		80-7000-24		80-7000-34	
Lamp 光源	Xenon				Tungsten/Deuterium			
Optics 光学原理	Split Beam			Double Beam				
Wavelength Range 波长范围	190nm to 1100nm							
Bandwidth 带宽	2nm		2nm		1nm		Variable (0.5, 1, 2, 4nm)	
Detector 感应器	Dual Solid State Silicon Photodiode							
Wavelength Accuracy 波长准确度	+/- 0.5nm across wavelength range				+/- 0.3nm across wavelength range			
Wavelength Reproducibility 波长重复性	+/- 0.1nm							
Stray Light 杂散光	<0.050%T at 220nm using NaI and 340nm using NaNO ₃				<0.025%T at 220nm using NaI and 340nm using NaNO ₃ <1%T at 198nm using KCl			
Photometric Range 光度范围	-4.000A to +4.000A							
Photometric Accuracy 光度准确度	+/-0.002A at 0.5A +/-0.004A at 1A +/-0.006A at 2A							
Photometric Reproducibility 光度重复性	+/-0.002A at 1A							
Scan Speed 扫描速度	>2400 nm/min							
Baseline Flatness 基线平坦度	---				+/-0.001 A across the range			
Color Touch Screen 彩色触摸屏	✓	---	✓	---	✓	---	✓	---
Built-in Software 内置软件	✓	---	✓	---	✓	---	✓	---
Resolution Software 外置软件	Optional 另购	Standard 标准	Optional 另购	Standard 标准	Standard 标准	Standard 标准	Standard 标准	Standard 标准
USB Storage USB 存储	✓	---	✓	---	✓	---	✓	---
Built-in Thermal Printer 内置热敏打印机	Optional 另购	---	Optional 另购	---	Optional 另购	---	Optional 另购	---
Method Storage 方法储存	90 on-board, unlimited via USB	Unlimited on PC	90 on-board, unlimited via USB	Unlimited on PC	90 on-board, unlimited via USB	Unlimited on PC	90 on-board, unlimited via USB	Unlimited on PC
Cell Compatibility 试管兼容性	Cuvette, Microcell*, 1-100mm path length cell*, test tube*, film*							
Dimensions 尺寸	510 x 350 x 160mm							
Power 电源	90 – 265 V AC, 50/60Hz							

* Require optional cell holder 需另购其它试管座

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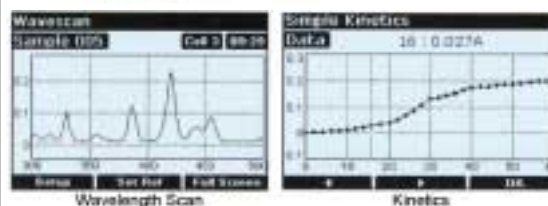
英国制造
Made in England

Libra S22 UV/Vis Spectrophotometers 紫外光 / 可见光分光光谱仪

- Press To Read (PTR) xenon lamp technology
- GLP self test diagnostics
- Rapid System Operation
- 8-position sampler changer as standard



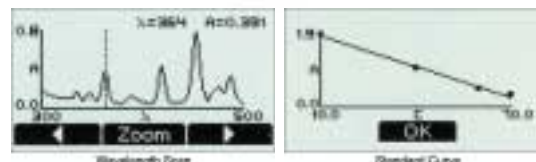
Specification 规格	
Model 型号	S22
Order Code 订购编号	80-2115-20
Lamps 光源	Xenon (PTR)
Optics 光学原理	Reference beam compensation (RBC)
Bandwidth 带宽	3nm or better
Wavelength Range 波长范围	190 – 1100nm
Wavelength Accuracy 波长准确度	±1nm
Absorbance Range 吸光率范围	-3.000 to +3.000A
Dimensions 尺寸	510 x 350 x 160mm
Power 电源	90 – 265 V AC, 50/60Hz
PC Software 软件	Acquire Software (80-2115-31)



Libra S11/ S12 Visible, UV/Vis Spectrophotometers 可见光, 紫外光 / 可见光分光光谱仪

- Lamp saver mode
- Automatic system calibration
- Wide range of sample handling accessories

Specification 规格		
Model 型号	S11	S12
Order Code 订购编号	80-2115-15	80-2115-10
Lamps 光源	Tungsten	Deuterium/Tungsten
Optics 光学原理	Single Beam	
Bandwidth 带宽	5nm	
Wavelength Range 波长范围	325 – 999nm,	200 – 999nm,
Wavelength Accuracy 波长准确度	±2nm	
Absorbance Range 吸光率范围	-3.000 to +3.000A	
Dimensions 尺寸	300 x 400 x 190mm	
Power 电源	90 – 265 V AC, 50/60Hz	
PC Software 软件	Acquire Lite Software (80-2112-24)	



Optional Accessories 另购配件

适用于 S22		
Description 说明	Model 型号	
1 4 position cell changer, 10 – 50mm pathlength	80-2160-01	
2 6 position Peltier heated cell changer	80-2106-04	
3 Temperature control unit (for item 3)	80-2112-49	
4 8 position cell changer	80-2108-01	
5 Single cell holder, 10mm pathlength	80-2106-05	
6 Cylindrical cell holder, up to 100mm pathlength	80-2106-10	
7 Cell holder with 8µl HPLC flow cell	80-2106-11	
8 Peltier heated single cell holder, 20-50°C	80-2106-13	
9 Sipper, complete with flow cell and all tubing (Use with item 5 or item 8)	80-2112-25	
10 Autosampler interface kit for Gilson 211/222 XL	80-2104-96	

适用于 S11/ S12		
Description 说明	Model 型号	
1 2 position manual cell changer	80-2109-04	
2 50mm pathlength cell holder	80-2109-05	
3 Test tube holder, Ø8-26mm, 180mm length	80-2109-33	
4 Peltier heated cell holder, 25, 30, 37°C	80-2109-07	
5 Temperature Controller	80-2112-54	
6 Cylindrical cell holder	80-2112-26	



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