

Spectrophotometer Libra S4+ Vis/S6+ Vis

These universal spectrophotometers are designed for a variety of applications in education, quality control and routine laboratories. They measure absorbance, transmission and concentration as well as simple kinetics. The large display allows to view the results in numerical as well as in graphical form. Stored methods can also be locked by using a pin protected password, as well as unlocked and deleted. The PVC (Print Via Computer) software is included with the instrument and providing the user with the option to transfer data directly to a PC. Data can be easily stored on a USB memory stick and analyzed at a later date.

Biochrom Ltd.

- Large LC display
- Interfaces for PC and USB stick
- Simple operation
- Small, lightweight device

1 Spectrophotometer Libra S4+ Vis

Ideal instrument for education and QC laboratories. Compact and lightweight for simpler applications.

Biochrom Ltd.

Up to 72 methods can be stored, providing a fast and easy way to recall frequently used methods.

Scope of supply:

Libra S4+, PVC software (Print Via Computer), data cable USB to PC, starter pack of 8 disposable cuvettes

Specifications

Optical system:	Single beam
Wavelength range:	325 ... 1100 nm
Accuracy:	±2 nm
Reproducibility:	±1 nm
Photometric range:	-0.300 ... 2.500 A
Accuracy:	< 0.002 A to 0A at 546 nm
Reproducibility:	< 0.002 A to 0A at 500 nm
Stray light:	< 1 %T at 340 nm
Light source:	Tungsten halogen
Outputs:	Export to PC with USB cable, USB memory stick
Dimensions (W x D x H):	325 x 225 x 133 mm
Weight:	1.6 kg
Power supply:	90-265 V, 50/60 Hz

Type	PK	Cat. No.
Libra S4+	1	4.668 614



2 Spectrophotometer Libra S6+ Vis

Fulfills the requirements of routine spectroscopy. Small and lightweight instrument with many functions. It also includes sorted methods for Bradford, BCA, Biuret and Lowry assays.

Biochrom Ltd.

Up to 90 methods can be stored, providing a fast and easy way to recall frequently used methods.

Scope of supply:

Libra S6+, PVC software (Print Via Computer), data cable USB to PC, starter pack of 8 disposable cuvettes

Specifications

Optical system:	Single beam
Wavelength range:	325 ... 1100 nm
Accuracy:	±2 nm
Reproducibility:	±1 nm
Photometric range:	-0.300 ... 2.500 A
Accuracy:	< 0.002 A to 0A at 546 nm
Reproducibility:	< 0.002 A to 0A at 500 nm
Stray light:	< 1 %T at 340 nm
Light source:	Tungsten halogen
Outputs:	Export to PC with USB cable, USB memory stick
Dimensions (W x D x H):	325 x 225 x 133 mm
Weight:	1.6 kg
Power supply:	90-265 V, 50/60 Hz

Type	PK	Cat. No.
Libra S6+	1	4.668 615



1


6.263 610

Spectrophotometer LLG-uniSPEC 2 and 4

High-quality and cost-efficient UV/VIS spectrophotometers for pharmaceutical, biochemical and clinical lab applications. Suitable for different measurement types such as kinetics, wavelength scans, quantitative analysis, multi-wavelength and DNA/Protein analysis.

Available in two versions:

LLG-uniSPEC 2 for standard routine measurements and uniSPEC 4 suitable for complex measurements e.g. required for quality controls. LLG-uniSPEC 4 features a small band width and a high wavelength accuracy. Both units can store and save 200 calibration curves. A pre-adjusted lamp design allows a fast and easy lamp replacement. Both lamps can be individually turned on/off to extend the durability. Both versions can be used either as stand-alone units or can be operated via a PC by using the supplied software.

- Single beam system, grid with 1200 lines/mm
- Silicon photodiode detector
- Parallel port for printer output
- USB port
- 4 position cell holder (10 mm) included
- Additional cell holders optionally available
- LCD display
- Deuterium and tungsten lamp
- Automatic wavelength adjustment

Scope of supply: LLG-uniSPEC 2 or 4 Photometer, software for connection to PC, 4 glass cells and 2 quartz cells.

2


6.263 620

Specifications

Optical System:	Single beam, Grating 1200 lines/mm, Silicium photodiode detector
Wavelength range:	190 to 1100 nm
Bandwidth:	2 nm // 1.8 nm
Wavelength accuracy:	±0.5 nm // ±0.3 nm
Wavelength repeatability:	0.3 nm // 0.2 nm
Wavelength setting:	automatic
Photometric accuracy:	±0.5 % T // ±0.3 % T
Photometric repeatability:	0.3 % T // 0.2 % T
Photometric range:	-0.3-3 A, 0-200 % T, 0-9999 C
Stability:	±0.002 A/h at 500 nm
Stray light:	≤0.1 %T // ≤0.05 %T at 220 nm, 360 nm
Data output:	USB port
Printer port:	parallel port
Display:	128 x 64 Dots LCD // 320 x 240 Dots LCD
Standard cell holder:	4-position 10 mm cell changer
Lamps:	D2 lamp and W lamp
Dimension (W x D x H):	460 x 360 x 225 mm // 625 x 430 x 206 mm
Weight:	18 kg // 28 kg
Power supply:	220 V/50 Hz or 110 V/60 Hz
Warranty:	3 years

LLG-uniSPEC 2 // LLG-uniSPEC 4

Type	Plug type	PK	Cat. No.
LLG-uniSPEC 2	EU	1	6.263 610
LLG-uniSPEC 2	UK	1	6.263 611
LLG-uniSPEC 4	EU	1	6.263 620
LLG-uniSPEC 4	UK	1	6.263 621

Accessories for Spectrophotometer LLG-uniSPEC 2/LLG-uniSPEC 4

Description	PK	Cat. No.
Cuvette holder for 4 cuvettes 50 mm and 100 mm	1	6.266 530
Cuvette holder, adjustable for 1 micro-cuvette	1	6.263 617
Tungsten lamp	1	6.263 615
Deuterium lamp	1	6.263 616
Circuit board power supply for LLG-uniSPEC 2	1	6.263 618
Circuit board photometer for LLG-uniSPEC 2	1	6.263 619
Spare keypad display for LLG-uniSPEC 2	1	6.263 625
Spare circuit board for LLG-uniSPEC 2	1	6.263 626
Cuvette holder, manual for 8 cuvettes, 10 mm	1	6.263 627
Foil keypad for LLG-uniSPEC 2	1	6.263 628

Spectrophotometer Models 6300 VIS/6305 UV-VIS

Models 6300 and 6305 are general purpose visible and UV/Visible range spectrophotometers which are suited to a wide range of applications in education and quality control.

Jenway



9.775 411

- Simple operation
- Versatile sampling system
- G.L.P. compliant
- Full interfacing capability
- Simple keypad and operating protocols designed to enable reliable operation by unskilled operators
- LCD gives simultaneous readout of wavelength and photometric result
- Error messages, prompts, mode indication and a choice of concentration units are presented in an easily understood format
- Cuvette holder allows 10 mm to 100 mm cells
- 3 year warranty

Supplied with: Mains lead, pack 100 disposable cuvettes, 10 x 10mm cell holder, PC Application Software on CD-ROM and operating instructions.

Various accessories e.g. sipper pump, cells, cell holders, cuvettes and lamps available on request.

Specifications

Optical system:	Single beam
Wavelength	
Range:	198 to 1000 nm (6305) 320 to 1000 nm (6300)
Resolution:	1 nm
Accuracy:	±2 nm
Bandwidth:	8 nm, 6 nm over UV range
Transmittance	
Range:	0 to 199.9 %
Resolution:	0.1 %
Stray light:	<0.5 % at 340 & 220 nm
Accuracy:	±1 %
Absorbance	
Range:	-0.300 to 1.999 A
Resolution:	0.001 A
Concentration	
Range:	-300 to 1999
Resolution:	0.1/1
Units:	ppm, mg/l, g/l, M, blank %
Outputs:	analogue (0 to 1999 mV d.c.) RS232 serial port
Light Source:	Xenon flash lamp module (6305) Tungsten halogen (6300)
Dimensions (W x D x H):	365 x 272 x 160 mm
Weight:	6 kg
Supply requirements:	230 V/50 Hz

Type	PK	Cat. No.
6300 VIS	1	9.775 412
6305 UV-VIS	1	9.775 411
Adjustable path length cuvette holder for 10 mm to 100 mm cuvettes	1	9.775 430





6.283 459

Scanning Spectrophotometers Series 72, VIS and UV-Vis

Scanning spectrophotometers from Jenway for measurements in the visible and UV range.

Jenway

Model 7200 (VIS): wavelength range of 335 to 800 nm with a spectral bandwidth of 7 nm.

Model 7205 (UV-VIS): wavelength range of 198 to 800 nm with a spectral bandwidth of 5 nm.

Both spectrophotometers are ideal for a variety of applications in education and routine testing in clinical, veterinary, pharmaceutical and QC laboratories.

The 72 series spectrophotometers offer measurement modes for single wavelength with basic absorbance and % transmittance; concentration determination (via reference standards or calibration curves with up to 6 standards), full spectrum scanning and kinetics for up to 3 simultaneous wavelength measurements.

The colour touchscreen user interface provides fast and easy set up and navigation of the instrument.

The 4" display allows full spectrum scans, quantitation curves and kinetics runs to be viewed easily.

The sample chamber lid can also be left open during measurements which is ideal for samples in tall test tubes.

Including two USB ports for data storage and printer connectivity.

Optional heated 10x10 mm cuvette holder for thermostated measurements at 37 °C.

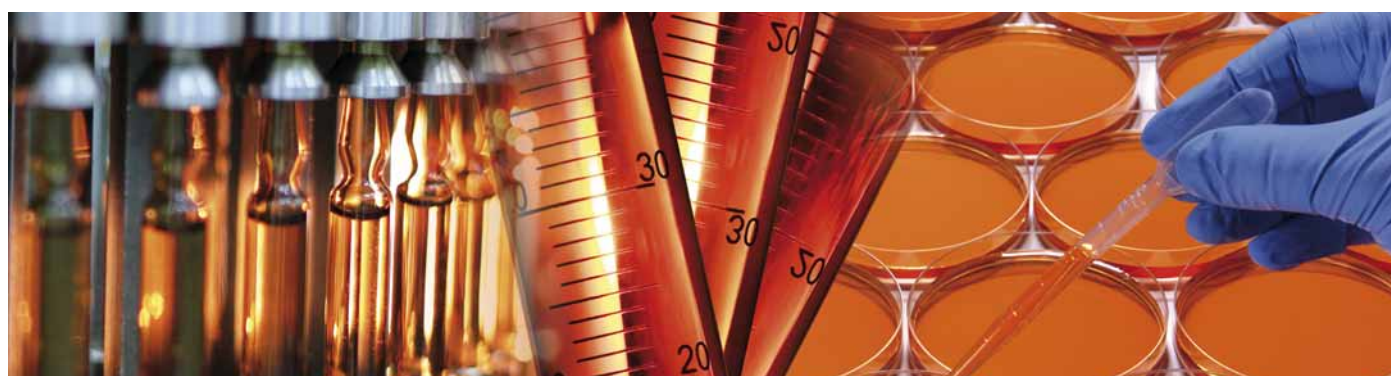
More accessories available on request.

- Scanning diode array detector (DAD)
- Colour Touchscreen navigation
- Small footprint and lightweight
- Fast scan speed
- Multiple USB ports for data storage and printer connectivity
- 2 year warranty on the instrument

Specifications

Optical system:	Single beam
Wavelength Range:	
7200 (VIS):	335 to 800 nm
7205 (UV-VIS):	198 to 800 nm
	±2 nm
Resolution	±2 nm
Repeatability	
Spectral bandwidth:	
7200 (VIS):	7 nm
7205 (UV-VIS):	5 nm
Photometric range:	-0.300 to 2500 A
Accuracy:	±0.01 A at 1.0 A and 546 nm
Stability:	±0.005 A/h bei 0.04 A und 546 nm
Stray Light at 340 nm, %T:	< 1 % T acc. ANSI/ASTM E387-72
Concentration range:	±2500
Quantitation:	±2500
Kinetics:	15 bis 99999 s
Light source:	
7200 (VIS):	Tungsten halogen lamp
7205 (UV-VIS):	Xenon Lamp
Outputs:	2 x USB
Dimension (W x D x H):	212 x 422 x 120 mm
Weight:	2.8 kg
Power supply:	100-240 V, 50/60 Hz
Warranty:	2 Years

Description	PK	Cat. No.
Spectrophotometer 7200 (VIS)	1	6.283 459 1
Spectrophotometer 7205 (UV-VIS)	1	6.286 777
Cell holder, 10 x 10 mm	1	6.283 460



1 Spectrophotometer Model 6850

Double beam spectrophotometer with a variable spectral bandwidth. The highly stable optics and two detectors measure the sample and reference simultaneously optimising measurement accuracy. The 6850 has measurement modes for photometrics, concentration, multi-wavelength, spectrum scanning, kinetics, quantitation, DNA/RNA and protein analysis. Jenway Prism PC software is supplied as standard and offers additional functionality with preloaded methods for DNA/RNA and protein analysis, as well as extensive post-measurement tools, unlimited results saving and easy export of data. The 6850 double beam spectrophotometer is ideal for quality control, general research, pharmaceutical, biochemical and clinical laboratory applications. Installation Qualification and Operation Qualification (IQ/OQ) is available for the 6850. Jenway

- Double beam spectrophotometer with highly stable optics
- Variable spectral bandwidth 0.5, 1, 2, 4, 5 nm
- Analysis: Auto peaks and valleys, zoom, addition, subtraction, peak ratios, smoothing, area under curve, wavelength table, derivatives, overlay with PC software
- Integrated user interface
- USB port for data storage
- Conforms to European Pharmacopeia requirements
- Jenway Prism PC software included as standard
- 1 year warranty

Specifications

Optical system:	Double beam
Wavelength range:	190 to 1100 nm
Resolution:	0.1 nm
Accuracy:	±0.3 nm (at 0.5 and 1 nm bandwidth) ±0.5 nm (at 2, 4 and 5 nm bandwidth)
Reproducibility:	±0.2 nm
Photometric range:	-0.3 to 3.0 A 0 to 200 %T
Accuracy:	±0.002 A (0 to 0.5 A) ±0.3 % T (0 to 100 %T)
Reproducibility:	±0.001 Abs (0 to 0.5 Abs) ±0.002 Abs (0.5 to 1.0 Abs)
Resolution:	0.1 %T, 0.001 A
Stray light:	< 0.05 %T at 220 and 360 nm
Concentration range:	0 to 99999
Quantitation points:	Up to 3 wavelengths
Kinetics:	Up to 12 h with time intervals of 0.1, 0.2, 0.5, 1, 2, 5, 10 or 30 s
Spectrum:	Any range between 190 and 1100 nm
Scan Speed:	100 to 2000 nm/min
Scan interval:	0.1, 0.2, 0.5, 1, 2 or 5 nm
Light source:	Tungsten and Deuterium lamp
Outputs:	USB and parallel
Dimensions (W x D x H):	600 x 450 x 200 mm
Weight:	22 kg
Supply requirements:	230 V, 50/60 Hz

Type	PK	Cat. No.
6850	1	9.775 454



1


1 Spectrophotometer BioDrop DUO

Biodrop Duo is a service-free bench-top instrument with a cuvette holder and a micro-volume sample port. The port enables absorption measurements in just 0.5 μ l sample volume without cuvettes. Ideal for rapid serial measurements of DNA, RNA or proteins. The cuvette holder offers the possibility for measurements with larger volumes with conventional 10 mm cuvettes. The instrument has a large colour touchscreen and preprogrammed applications for the measurement of DNA, RNA, oligos and proteins. Generated data can be stored internally or transferred from the instrument using a USB flashdrive. The photometer can be operated with a PC and the supplied BioDrop Resolution Software via a USB connection. A built-in printer can also be selected for a complete stand-alone solution.

Biochrom Ltd.

- Micro-volume sample port for minimum sample volume
- High-resolution, colour touchscreen
- Software package with preprogrammed methods for sample analysis
- USB connection for PC control and data export
- No calibration needed
- Easy cleaning of the sample port with a lint-free tissue

Specifications

Maximum concentration dsDNA:	2500 ng/ μ l
Detection limit:	1 ng/ μ l
Absorbance range:	0.3 to 2.5 A (0.3 A to 50 A, 10 mm equivalent)
Absorbance accuracy:	\pm 0.005 A or 1 % of the reading, whichever is the greater at 546 nm
Spectral bandwidth:	5 nm
Stray light:	<0.5 %T at 220 nm and 340 nm using NaNO ₂
Wavelength range:	190 bis 1100 nm
Wavelength accuracy:	\pm 2 nm
Light source:	Pulsed Xenon lamp
Dimensions (W x D x H):	260 x 420 x 185 mm
Weight:	3 kg
Power supply:	90-250 V, 50/60 Hz, max 50 VA

Description	PK	Cat. No.
BioDrop DUO	1	6.313 967
BioDrop DUO with printer	1	6.313 968

2


2 Spectrophotometer 7415 nano

For accurate, fast and reproducible measurement of sample volumes from 0.5 μ l to 5 μ l. Programmed for the measurement of nucleic acid concentration and purity as well as protein assays. The direct application of the sample on the measuring head eliminates the need for cuvettes or sample dilution. Single measurements are performed in less than 6.5 seconds. Fast cleaning of the measuring optics simply by wiping off. Customized Android-based user interface to control the instrument, set measurement modes and retrieve results. Ethernet and USB interfaces for transfer of results, updates and printer connection as well as networking with cloud services.

Jenway

- Ideal for DNA, RNA and protein determination
- Only 0.5 μ l sample volume required
- For DNA concentrations up to 2 ng/ μ l
- 7" color touch screen
- Multilingual user interface
- 10 GB internal memory for methods and results
- 3 years warranty, also on the xenon lamp
- Stainless steel measuring head with quartz lens

Specifications

Wavelength range:	198 ... 1000 nm
Wavelength accuracy:	\pm 2 nm
Spectral bandwidth:	5 nm
Absorbance accuracy:	\pm 0.01 at 1.0 A
Transmittance range:	0 ... 199.9 %
Concentration range:	2 ... 6000 ng/ μ l dsDNA
DNA measurement modes:	dsDNA, ssDNA, RNA, Oligonucleotides, 260/280, 260/230, variable ratio
Protein measurement modes:	BCA, Bradford, Lowry, Biuret, direct UV
Light source:	Xenon lamp
Dimensions (W x D x H):	275 x 400 x 220 mm
Weight:	7.7 kg
Power supply:	100 ... 240 V, 50 ... 60 Hz

Type	PK	Cat. No.
7415 Nano	1	4.664 027