



S-30

## BOECO S-30 LIFE SCIENCE ANALYSER

- ▶ Pre-programmed for DNA Analysis
- ▶ DNA Purity Scan
- ▶ Established Protein Methods Pre-Loaded
- ▶ Standard UV/Vis Spectrophotometer Functions

The BOECO S-30 has been designed specifically for the scientist whose primary interest is the study of DNA and Proteins. Optimised for low volume analysis, the BOECO S-30 is capable of determining DNA levels as low as 70ng with samples as low as 50µl using special cuvettes and the micro-cuvette holder.

All routinely used DNA calculations are pre-programmed into BOECO S-30. It will automatically calculate purity ratios at 260/280nm or 260/230nm both with an optional background correction wavelength (default at 320nm).

Concentrations of ssDNA, dsDNA, RNA and Oligonucleotides are clearly displayed on the large multi-function LCD display. In addition a 100nm purity scan may be run to clearly show the status of any samples.

The on-board software enables all the common protein measurement methodologies to be run directly with the minimum set-up time. Included are the Bradford, Biuret, BCA, Lowry, Bicinchoninic and direct UV methods, standard settings can be used immediately or modified and stored for future use.

Where BOECO S-30 is used in a multi-user or unskilled user environment a Supervisor Security mode can be activated which locks all the set-up options without the entry of a pin code.

As well as these general life science applications BOECO S-30 can also be used as a standard UV/Vis spectrophotometer with Absorbance and Transmission readings being given across the wavelength range from 198 to 1000nm.

Code	Description
BOE 8636001	Model S-30 dedicated Spectrophotometer, for DNA/RNA oligonucleotide and protein analysis, supplied with mains lead, 8 x UV plastic cuvettes, cell holder and instruction manual, for use on 230 V, 50/60 Hz
BOE 8636031	Model S-30 dedicated Spectrophotometer, for DNA/RNA oligonucleotide and protein analysis, supplied with mains lead, 8 x UV plastic cuvettes, cell holder and instruction manual, for use on 110 V / 60 Hz

### Instrument Specification:

Transmittance	
Range:	0 to 199.9%
Resolution:	0.1%
Stray light	<0.5% @ 340nm and 220nm
Photometric accuracy:	±1%
Absorbance	
Range:	-0.300 to 1.999A
Resolution:	0.001A
Photometric stability:	<0.002A Hr after 30 minute warm up
Photometric noise:	<0.001A @ 0A @ 400nm
Concentration	
Range:	-300 to 9999
Resolution:	1, 0.1, 0.01 or 0.001
Units:	ppm, mg/l, g/l, M, %, µg/l, µg/ml, mg/ml, ng/ml or blank(mode specific)
Wavelength	
Range:	198 to 1000nm
Resolution:	1nm
Accuracy:	±2nm
Repeatability:	±0.5nm
Bandwidth:	5nm typical @ 270nm (8nm over full wavelength range)
Factor:	0 to 199.9, 1000 to 9999
Readout:Custom	LCD Graphics
Outputs:	Analogue (0 to 1.999V d.c.) / RS232 serial port
Light source:	Xenon flash lamp module
Operating Temperature:	5°C to 40°C
Maximum	RH:80%
Input voltage:	115/230V a.c. -20% +10%
	50/60Hz
Input power:	<50W
Size:	365(w)x272(d)x160(h) mm
Weight:	6kg

## ACCESSORIES SPECTROPHOTOMETER

Code	Description
BOE 633001	Heated cuvette system (cuvette holder and external control unit), supplied with interconnection cables, instruction manual, mains cables for EU, UK and USA. Universal voltage and frequency.
BOE 632001	External sipper pump supplied with inlet and outlet tubing, mains cable and instruction manual 230V/50Hz
BOE 632031	External sipper pump supplied with inlet and outlet tubing, mains cable and instruction manual 110V/60Hz
BOE 630005	Adjustable path length cuvette holder (10 -100mm)
BOE 630204	10mm cuvette holder (supplied as standard with product)
BOE 630304	Micro-cuvette holder with reduced aperture
BOE 636024	S-30 cuvette holder adapter
BOE 630020	Test tube holder (12.5 - 13.5mm diameter)
BOE 630022	Test tube holder (15.5 - 16.5mm diameter)
BOE 630021	Test tube holder (24 - 25.5mm diameter)
BOE 634001	4 position rotary cuvette holder
BOE 648001	Water heated cuvette holder
BOE 033290	Storage Case
BOE 630028	Dust Cover
BOE 012075	Tungsten halogen lamp (S-20, S-24)
BOE 012094	Xenon Lamp module (S-22, S-30)
BOE 035088	Calibration Set Visible
BOE 035091	Calibration Set UV/Visible

### Cuvettes:

Code	Description
BOE 104010	BOECO economic Macro cell, Optical glass 10 mm lighth path, PTFE lid, 2 pcs. / pack
HEL 6030-OG/10	Macro Cuvette without lid, Optical glass, 10 mm light path
HEL 6030-UV/10	Macro Cuvette without lid, Quartz glass, 10 mm light path
HEL 100-OS/10	Macro Cuvette with PTFE lid, Optical glass, 10 mm light path
HEL 100-OS/20	idem with 20 mm light path
HEL 100-OS/40	idem with 40 mm light path
HEL 100-OS/50	idem with 50 mm light path
HEL 100-OS/100	idem with 100 mm light path
HEL 6040-OG/10	Semi-Micro Cuvette without lid, Optical glass, 10 mm light path
HEL 6040-UV/10	Semi-Micro Cuvette without lid, Quartz glass, 10 mm light path
HEL 105-202-QS/15	Ultra-Micro Cuvette with PE stopper, Quartz glass, 10 mm light path, Centre height 15 mm Chamber volume 50 µl, Filling volume 70 µl
HEL 174-OS/10	Semi-Micro Flow-Through cuvette, Optical glass with in/outlet tubes, Volume 1500 µl
HEL 178.010-OS/10	Micro Flow-Through cuvette, Optical glass with in/outlet tubes, Volume 80 µl
BOE 2711110	Disposable Macro Cuvettes, PS, 10 mm light path, pack of 100 pcs.
BOE 2712120	Disposable Semi-Micro Cuvettes, PS, 10 mm light path, pack of 100 pcs.
BRA 759150	Disposable UV Semi-Micro Cuvettes, PS, Wavelength as from 220 to 900 nm, 10 mm light path, pack of 100 pcs.
BRA 759220	Disposable UV Micro Cuvettes, PS, Center height 15 mm, Vol. 70 µl up to 550 µl, Wavelength as from 220 to 900 nm, 10 mm light path, pack of 100 pcs.



TEST TUBE HOLDER



ADJUSTABLE PATH LENGTH CUVETTE HOLDER (10 - 100MM)



HEATED CUVETTE SYSTEM (CUVETTE HOLDER AND EXTERNAL CONTROL UNIT)



EXTERNAL SIPPER PUMP



HEL 100-OS/100



HEL 100-OS/10



HEL 174-OS/10