



S-30

Instrument Specifications:

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

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 50ul 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 looks 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