

BOECO S-24 VIS SPECTROPHOTOMETER

- ▶ Concentration and kinetic measurements
- ▶ Spectrum Scanning from 320 to 1000 nm
- ▶ Quantitation using up to 6 standards
- ▶ 200 method memory (50 per mode)

The BOECO S-24 is an advanced measuring system with modes for Photometrics, Concentration, Quantitation, Kinetics and Scanning. The S-24 will meet the demands of a wide range of applications especially those in the clinical, veterinary environmental, general QC and performance testing areas.

With a memory capacity of 50 methods for each mode, the fully open operating system ensures compatibility with reagent kits from most manufacturers, as well as enabling full customisation to the operators's choice of chemistries and operating procedures.

The simple to use but feature rich spectrophotometer can be adapted to meet your current and future requirements through its novel customisable menus. Activating the Supervisors Security functions, that enable that all the Set-up options to be locked without the entry of a security code number, can further enhance the integrity of your work.

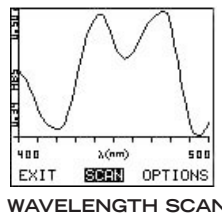
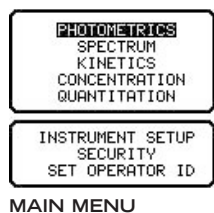
In the Photometrics mode, Absorbance, Transmission and Wavelength are displayed simultaneously on the readout so no changing is required. Simple concentration measurements using a single standard or factor can be made in the Concentration mode. A Quantitation mode allows more complex concentration methods to be programmed, using up to six standards to create a calibration curve. For each curve fit option a linearity correlation co-efficient is calculated.

A real-time graphical display of Kinetic measurements is shown along with the calculated concentration value and other relevant data. The Spectrum Scanning mode allows scans to be made across any selected portion of the 320 to 1000 nm range. The auto-ranging Absorbance axis allows scans to be commenced with no prior knowledge of the peak Absorbance level expected.

The S-24 has an analogue output that can be used to drive chart recorders and other analogue recording or conversion devices, as well as a bi-directional RS 232 serial port for connection to serial printers and computers. The optional S-24 software allows full emulation of the instrument functions on a PC including the import of results and download of methods. An electrically heated cuvette holder and control unit is available, as well as a water heated cuvette holder and a thermostatically controlled water circulator. The external programmable sipper pump ensures faster and safer sample handling.

The large sample compartment enables a wide range of sampling devices to be fitted. Cuvette holders from 10 mm to 100 mm in path length, a four-position rotary cuvette holder, and test tubes from 12.5 to 25 mm diameter can all be accommodated.

Code	Description
BOE 8636001	Model S-24 Spectrophotometer, supplied with a pack of 100 10 x 10 mm plastic cuvettes, mains lead, 10 x 10 mm cuvette holder and manual, for use on 230 V, 50/60 Hz
BOE 8636031	Model S-24 Spectrophotometer, supplied with a pack of 100 10 x 10 mm plastic cuvettes, mains lead, 10 x 10 mm cuvette holder and manual, for use on 110 V, /60 Hz



Instrument Specifications:

Wavelength Range:	320 to 1000nm
Resolution:	1nm
Accuracy:	±2nm
Spectral Bandwidth:	8nm
Absorbance Range:	-0.300 to 1.999A
Transmittance Range:	0 to 199.9%
Concentration Range:	-300 to 1999Conc.
Selectable Resolution:	1, 0.1, 0.01 or 0.001
Calibration:	Blank with a single standard or factor
Memory:	50 methods
Quantitation Range:	-300 to 1999Conc.
Selectable Resolution:	1, 0.1, 0.01 or 0.001
Calibration:	Blank with up to 6 standards
Curve Correction:	Linear regression, interpolation or linear regression through zero
Memory:	50 methods
Kinetics:	Graphical and calculated concentration value
Selectable Resolution:	1, 0.1, 0.01 or 0.001
Calibration:	Against standard and factor
Correlation Factor:	squared value displayed with result
Memory:	50 methods and 5 graphed results
Spectrum:	any range between 320 and 1000 nm
Scan Data Internal:	1, 2 or 5 nm selectable
Analysis:	Absorbance and wavelength of peaks and valleys
Memory:	50 methods and 5 scans
GLP:	Real time clock and calendar Operator ID Supervisor security (locks all set up parameters) Method display lock
Readout:Custom	LCD Graphics
Outputs:	Analogue (0 to 1.999V d.c.) RS232 serial port
Light source:	Tungsten Halogen lamp
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