

BOECO Spectrophotometers,
Germany Models S-20 Vis & S-22 UV/Vis



- ▶ **Wavelength ranges:**
320 - 1000 nm (S-20)
198 - 1000 nm (S-22)
- ▶ **Bandwidths:**
8 nm (S-20)
6 nm (S-22)
- ▶ **In-built wavelength calibration**
- ▶ **Automatic O%T setting during all calibration routines**
- ▶ **Dual display - wavelength & photometric result**
- ▶ **Full interfacing capability (bi-directional RS 232 interface)**
- ▶ **Versatile sampling system**
- ▶ **Simple operation**
- ▶ **Ideal for Routine Analysis**
- ▶ **First quality at affordable prices**
- ▶ **Manufactured under ISO 9000 norms**
- ▶ **CE mark for electromagnetic compatibility**

The BOECO Model S-22 has a unique xenon lamp which has the advantage of offering a broad spectral source with extended life. This enables the running costs for the S-22 to be minimised over the lifetime of the spectrophotometer, since there are no deuterium and tungsten lamps to replace.

- ▶ **Single lamp with guaranteed 3 year life time**
- ▶ **Self calibrating lamp at 3 wavelengths**
- ▶ **10 times more UV light energy**
- ▶ **Blazed holographic grating**



Code	Description
BOE 8630501	Model S-20 Vis Spectrophotometer, 230V, with pack 100 10x10mm plastic cuvettes, mains lead, 10x10 cell holder & manual
BOE 8630531	Model S-20 Vis Spectrophotometer, 110V, with pack 100 10x10mm plastic cuvettes, mains lead, 10x10 cell holder & manual
BOE 8635001	Model S-22 UV/Vis Spectrophotometer, 230V, with pack 100 10x10mm plastic cuvettes, mains lead, 10x10 cell holder & manual
BOE 8635031	Model S-22 UV/Vis Spectrophotometer, 110V, with pack 100 10x10mm plastic cuvettes, mains lead, 10x10 cell holder & manual

	S-20 Vis	S-22 UV/Vis
Wavelength:		
Range:	320 - 1000 nm	198 - 1000 nm
Resolution:	1nm	1nm
Accuracy	± 2 nm	± 2 nm
Bandwidth	8 nm	6 nm
Absorbance:		
Range:	-0.300 to 1.999 A	-0.300 to 1.999A
Resolution	0.1 %	0.1 %
Stray Light	<0,5% @ 340 nm	<0.5% @ 340 nm
Photometric Accuracy	± 1%	± 1%
Concentration:		
Range	-300 to 1999 Concentration	-300 to 1999 Concentration
Resolution	0.1 / 1	0.1 / 1
Units	ppm, mg/l, g/l, M, %, blank	ppm, mg/l, g/l, M, %, blank
Factor	0 to 999.9, 1000 to 9999	0 to 999.9, 1000 to 9999
Photometric Noise Levels	<1%	<1%
Photometric Stability	1%/Hour after warm-up	1%/Hour after warm-up
Readout	Custom Liquid Crystal Display	Custom Liquid Crystal Display
Outputs	Analog (0 to 1999mV) / RS232 serial port	Analog (0 to 1999mV) / RS232 serial port
Light Source	Tungsten Halogen 20W 12V	Xenon Lamp module
Input Voltage	115/230V AC -20% +10%	115/230V AC -20% +10%
Input Power	<50W	<50W
Size:	365(W)x272(D)x166(H) mm	365(W)x272(D)x166(H) mm
Weight:	6 kgs	6 kgs

Accessories

BOE 632 001	EU Sipper Pump, 220 V
BOE 632 031	US Sipper Pump, 110 V
BOE 630 020	Test Tube Block (13mm diameter)
BOE 630 021	Test Tube Block (25mm diameter)
BOE 630 022	Test Tube Block (16mm diameter)
BOE 648 001	Water heated single Cell Block
BOE 634 001	4 position cell holder
BOE 630 005	20 - 100mm adjustable Cell holder
BOE 630 004	10 x 10mm Cell holder
BOE 012 075	Tungsten Halogen Lamp (model S-20)
BOE 012 094	Xenon Lamp module (model S-22)
BOE 050 002	Serial interface set up card
BOE 035 088	Calibration Set Visible (S-20)
BOE 035 091	Calibration Set UV/Visible (S-20/22)

Cells & Cuvettes

HEL 6030-OG/10	Macro Cell, without lid optical glass 360 - 2500 nm 10 mm light path
HEL 6030-UV	Macro Cell, without lid Quartz HERASIL 230 - 2500 nm 10 mm light path
HEL 100-QS/10	Macro Cell, with PTFE lid Quartz SUPRASIL 200 - 2500 nm 10 mm light path
HEL 6040-OG	Semi-Micro Cell, without lid optical glass 360 - 2500 nm 10 mm light path
HEL 6040-UV	Semi-Micro Cell, without lid Quartz HERASIL 230 - 2500 nm 10 mm light path
LAF A 2002	Disposable Macro Cuvettes, PS 10 mm light path, pack of 160 pcs.
LAF A 2014	Disposable Semi-Micro Cuvettes, PS 10 mm light path, pack of 160 pcs.
BRA 759150	Disposable UV Semi-Micro Cuvettes, PS, wavelength as from 220 nm 10 mm light path, pack of 100 pcs.