



# SINGLE BEAM UV VISIBLE SPECTROPHOTOMETER BHV1B2 (BSSUV-302)

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## SPECTROPHOTOMETER

Spectrophotometers are the ideal instrument for education and QC laboratories. Using your standard sample solutions, you can get a standard curve on the large LCD screen. They are widely used in colleges and enterprises for general quantitative analysis and experiments.



Large LCD screen (128\*64 Dots).

Can display a total 50 groups of data, 3 groups per screen. Can display standard curve and the curve equation.

The system can also save the test results. Total 200 groups of data and 200 standard curves can be saved; it is convenient for check and reload.

Data can be restored after a sudden power cut.

Auto setting wavelength.

Tungsten lamp & Deuterium lamp can be turned on/off individually to extend lifetime.

Pre-aligned design makes it convenient to change lamps.

A large sample compartment, it can accommodate 5-100 mm path length cuvettes with optional holders. A variety of optional accessories are available.

## SPECIFICATIONS

Model	BHV1B2
Old Model	BSSUV-302
Wavelength Range	200-1000 nm
Spectral Bandwidth	4 nm
Optical System	Single Beam, Grating 1200 lines/mm
Wavelength Accuracy	$\pm 2$ nm
Wavelength Repeatability	0.8 nm
Photometric Accuracy	$\pm 0.5\%T$ or $\pm 0.004A$ @ 1A
Photometric Range	0-200%T, -0.3-3 A, 0-9999 Conc
Stray Light	0.2%T
Stability	$\pm 0.002$ A/h @500 nm
Detector	Silicon Photodiode
Standard Cell Holder	4-position 10mm cell changer
Sample Compartment	Standard 10mm pathlength cuvette
Light Source	Tungsten & Deuterium lamp
Output	USB Port & Parallel Port (Printer)
Power Requirement	AC 110/220 V, 50/60 Hz
Dimensions (LxWxH)	440 x 387 x 180 mm
Weight	14 kg
Alt Name	Spectrophotometer

## ACCESSORIES FOR PURCHASE

No	name
1	Micro Cell Holder (Beam height: 15mm)
2	8-Position Auto Cell Changer
3	4-Cell Holder for 10mm SQU.cuvette
4	4-Cell Holder for 50mm SQU.cuvette
5	4-Cell Holder for 100mm SQU.cuvette
6	Square Cuvettes Glass :10 mm

7	20 mm
8	30 mm
9	50 mm
10	100 mm
11	Square cuvettes Quartz:10 mm
12	20 mm
13	30 mm
14	50 mm
15	100 mm
16	Micro cell, Quartz (Beam height: 15mm) 100UL
17	200UL
18	500UL
19	Sipper System
20	Constant-Temperature System
21	Constant-Temperature Sipper System
22	Test Tube Holder
23	Cylindrical Cell Holder
24	Solid Sample Holder (Single Cell)
25	Water-Jacketed Cell Holder
26	10mm Water-Jacketed 4-Cell Holder
27	Milas Deuterium Lamp
28	Halogen Lamp(Philips)
29	Halogen Lamp(Philips)
30	Halogen Lamp(Osram)
31	Self Masking Cont. Flowthrough G.Cell (Beam height: 15mm) 5mm
32	10mm
33	20mm
34	30mm
35	Self Masking Cont. Flowthrough Q. Cell (Beam height: 15mm) 5mm
36	10mm
37	20mm
38	30mm
39	Thermal Printer



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2



3



4



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6



## FEATURES

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A large sample compartment, it can accommodate 5-100 mm path length cuvettes with optional holders. A variety of optional accessories are available.

The optional application software M. Wave Professional provides complete control of the spectrophotometer through the Built-in USB port. You can achieve the following functions:

I. Quantitative; II. Kinetics; III. Wavelength Scan; IV. Multi Wavelength; V. DNA/Protein.

Functions:

Basic Mode: Absorbance, Transmittance, Concentration.

Quantitative Functions:

Standard Curve

Maximum of 9 standard samples can be used to establish a standard curve: The curve equation will display on the screen simultaneously. You can test your unknown concentration solutions by the curve.

Coefficient Methods

If you have known the coefficients K&b of the formula  $C=K*A+b$ , you can input the value directly by button, then test your unknown solution.



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