



# SINGLE BEAM VISIBLE SPECTROPHOTOMETER BSSBV-301

## SINGLE BEAM VISIBLE SPECTROPHOTOMETER BSSBV-301

Designed to conserve benchspace, our product offers the measurement range of 190-1100nm at bandwidth of 2nm. Engineered for a wide range of applications, our systems provide dependable performance and reliable results. It produces the photometric range of -0.3 to 3 A; 0-200 %T and photometric accuracy of  $\pm 0.3\%$ T which makes it suitable for various quantitative assays.

Used in Most suitable for quantitative determination assays and toxicological assays in environmental, industrial, pharmaceutical fields..

Also known as Vis Spectrometer, UV-Vis Spectrometer, Spectrometers, visible spectrophotometer.

## BSSBV-301 SINGLE BEAM VISIBLE SPECTROPHOTOMETER



Wavelength range: 320nm-1100nm

Optical System: 1200 lines/mm line Czerny Turner Diffraction Grating monochromator ensures high resolution, high photometric accuracy and low stray light

Bandwidth: 2&4nm

Detector: Silicon Photodiode

Measurement Range with ultra-low Stray Light: With its ultra-low stray light  $\leq 0.05\%$ T is achieved on wavelength range of 320 - 1100 nm

Sample size: A wide range of standard cuvettes can be used based on the sensitivity or sample volume requirements.

Sophisticated and simplified sample analysis software: The Sample analysis software deliver scanning, fixed wavelength analysis, quantitative analysis, data collection, storage, export, and reporting.

With additional feature of an easy access USB port available in the unit, which enables results to be stored directly to a USB memory stick for easy transfer of data.

LCD display

Large sample compartment to accommodate 5-100mm cuvettes with holders

USB port and parallel port

Manually set wavelength

Automatic zero adjustment

## SPECIFICATIONS

Model	BSSBV-301
Wavelength Range	325-1000 nm
Wavelength Accuracy	$\pm 2$ nm
Wavelength Repeatability	1 nm
Spectral Bandwidth	4 nm
Photometric Range	0-200 %T, -0.3 - 3 A, 0-1999 C
Photometric Accuracy	$\pm 0.5$ %T or $\pm 0.004$ A @ 1A
Stability	$\pm 0.004$ A/h @ 500 nm
Stray Light	0.2 %T
Light Source	Tungsten Lamp
Photometric Mode	T, A, C, F
Optical System	Single Beam , Grating 1200 lines/mm
Gross Dimension (W/D/H)	440x387x180 mm
Display	128*64 LCD
Weight (Net/Gross)	8 kg
Power Supply	AC 85 V - 265 V 50/60 Hz

## OPTIONAL ACCESSORIES

Accessory Code	Name	Description	Unit	Light Path (mm)
3000806007	Holder	4-cell holder for up to 50mm square cuvette		
3000806008	Holder	4-cell holder for up to 100mm square cuvette		
3000806009	Holder	Long path single cell holder for 100mm		
3000806010	Holder	Single cell holder for 10mm square Cuvette		
3000806011	Holder	Cylindrical cell holder(Φ16mm)		
3000806030	Cuvettes	Square cuvettes; glass 50mm	/4pcs	
3000806031	Cuvettes	Square cuvettes; glass 100mm	/4pcs	
3000806032	Cuvettes	Square cuvettes; quartz 10mm	/2pcs	
3000806033	Cuvettes	Square cuvettes; quartz 20mm	/2pcs	
3001806006	Cuvettes	Square cuvettes; quartz 100mm	/2pcs	
3001806007	Cuvettes	50ul micro cell	/1pc	
3000806035	Cuvettes	1000ul micro cell; central-beam height:8.5mm;15mm; 3x10x45mm; quartz	/1pc	
3000806036	Software	Dongles for 31.61 application software ; (UV analyst software)	/1set	
3000806037	Software	Software (m.wave basic)	/1set	
3000806038	Software	Software	/1set	
3000806039	Software	Advanced PC window software (m.wave professional)	/1set	
3000806040	Software	Software (m.wave basic)	/1set	
3000806041	Holder	Cell holder for micro cells; Central beam height: 15mm		
3000806042	USB connector line	USB connector line (only for m.wave basic)	/1pc	
3000806043	Quartz Cuvette	Cell; 100ul; 1pcs; central beam height: 15mm		10
3000806044	Quartz Cuvette	Cell; 200ul; 1pcs;central beam height:15mm		10
3000806045	Cuvette	Flow cell; 5 mm; optical glass; 1pcs;central beam height:15mm; 15xw2xh5mm		
3000806046	Cuvette	Flow cell; 10 mm; optical glass; 1pcs;central beam height:15mm; 110xw2xh5mm		
3000806047	Cuvette	Flow cell; 20 mm; optical glass; 1pcs;central beam height:15mm;120xw2xh5mm		
3000806048	Cuvette	Flow cell; 30 mm; optical glass; 1pcs;central beam height:15mm; 130xw2xh5mm		
3000806049	Cuvette	Flow cell; 5 mm; quartz; 1pcs; central beam height:15mm; 15xw2xh5mm		
3001806008	Other	A-101 sipper system; holder beam height:15mm		
3000806052	Other	A-100 peltier/sipper system; constant-temperature sipper system; holder beam height:15mm		
3001806009	Holder	4-cell holder for up to 100mm square cuvette		
3000806055	Holder	Test tube holder(Φ8-Φ22mm)		
3000806057	Silicon tube	Silicon tube; 1bag=1pair(1m+1m)	/1bag	
3000806060	Glass cuvettes	Square cuvettes; volume:900ul		2
3000806061	Glass cuvettes	Square cuvettes; volume:450ul		1
3000806062	Quartz cuvettes	Square cuvettes; volume:1800ul	/2pcs	5



**Biolab Scientific Ltd.**

3660 Midland Avenue, Suite 300, Toronto, Ontario M1V 0B8, Canada  
Email: [contact@biolabscientific.com](mailto:contact@biolabscientific.com) | Website: [www.biolabscientific.com](http://www.biolabscientific.com)