



# SINGLE BEAM VISIBLE SPECTROPHOTOMETER BSSBV-401

## SINGLE BEAM VISIBLE SPECTROPHOTOMETER BSSBV-401

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-401 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: 2nm

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.

Suspended posture optical system

24-bit high speed and high precision A/D conversion technique improves sensitivity

Can store up to 200 groups of data and 200 standard curves

Automatic wavelength setting

Automatic wavelength calibration and automatic deviation repair

USB port and parallel port

Inclusive of standard PC software

## SPECIFICATIONS

Model	BSSBV-401
Wavelength Range	320-1100 nm
Wavelength Accuracy	$\pm 0.5$ nm
Wavelength Reproducibility	$\leq 0.2$ nm
Wavelength Repeatability	$\leq 0.2$ nm
Spectral Bandwidth	3 nm
Photometric Range	0.200 %T, -0.3-3 A, 0-9999 C
Photometric Accuracy	$\pm 0.3$ %T
Photometric Repeatability	$\leq 0.15$ %T
Stability	$\pm 0.0001$ A/hr at 500 nm
Baseline Flatness	$\pm 0.0001$ A/h
Stray Light	$\leq 0.05$ %T
Light Source	Tungsten-Halogen Lamp
Photometric Mode	$\leq 0.05$ %T

Software	USB
Gross Dimension (W/D/H)	460x380x180 mm
Display	LCD (228x64 pixel)
Noise	≤0.0005A
Weight (Net/Gross)	15 kg
Power	300 W
Power Supply	AC 220V/50Hz or AC110/60Hz

## ACCESSORIES

Accessory Code	Name	Unit
3000606019	Glass cuvette (10 mm)	4 pcs
3000606023	Dustproof cover	1 pc
3000606026	Software CD	1 pc
3000606028	USB Cable	1 pc
3000606030	Power cord	1 pc
3000606032	Softdog	1 pc

## OPTIONAL ACCESSORIES

Accessory Code	Name	Description	Light Path LxWxH (mm)	Volume	Unit	Light Path LxWxH (mm)
3000606007	Single Position Water Jacketed Ambient Cell Holder	10 mm				
3000606008	4-Position Cell Holder	10 mm				
3000606009	4-Position Cell Holder	50 mm				
3000606010	4-Position Cell Holder	100 mm				
2902406006	Adjustable Cell Holder for Micro Cuvettes					
2902406007	Transparent Film Holder					
3000606012	Tube Holder					
3000606013	Thermostatic Controller					
3000606014	Auto Sampler					
3000606015	Auto Thermostatic Sampler					
3000606016	Micro Printer					
3000606017	Tungsten Lamp 6V; 10W (PH)					
3000606018	Tungsten Lamp 12V; 20W (PH)					
3000606020	Tungsten Lamp 12V; 20W (OSRAM)					
3000606024	Glass Cuvette		5x10x45	1.7 ml	Set (4 pcs)	
3000606025	Glass Cuvette		10x10x45	3.5 ml	Set (4 pcs)	
3000606027	Glass Cuvette		20x10x45	7 ml	Set (4 pcs)	
3000606029	Glass Cuvette		30x10x45	10.5 ml	Set (4 pcs)	
3000606031	Glass Cuvette		40x10x45	14 ml	Set (4 pcs)	
3000606033	Glass Cuvette		50x10x45	17.5 ml	Set (4 pcs)	
3000606034	Glass Cuvette		100x10x45	35 ml	Set (4 pcs)	
3000606035	Quartz Cuvette		5x10x45	1.7 ml	Set (2 pcs)	
3000606036	Quartz Cuvette		10x10x45	3.5 ml	Set (2 pcs)	
3000606037	Quartz Cuvette		20x10x45	7 ml	Set (2 pcs)	

3000606038	Quartz Cuvette		30x10x45	10.5 ml	Set (2 pcs)	
3000606039	Quartz Cuvette		40x10x45	14 ml	Set (2 pcs)	
3000606040	Quartz Cuvette		50x10x45	17.5 ml	Set (2 pcs)	
3000606041	Quartz Cuvette		100x10x45	35 ml	Set (2 pcs)	
3000606042	Micro Quartz Cuvette		10x2x2.5	50 ml	Set (2 pcs)	
3000606043	Micro Quartz Cuvette		10x2x5	100 µl	Set (2 pcs)	
3000606044	Micro Quartz Cuvette		10x2x10	200 µl	Set (2 pcs)	
3000606045	Micro Quartz Cuvette		10x2x25	500 µl	Set (2 pcs)	
3000606046	Micro Quartz Cuvette		10x2x45	700 µl	Set (2 pcs)	
3001906006	Quartz Flow Cuvette				Set (2 pcs)	
3000606047	Micro Quartz Cuvette				Set (2 pcs)	10x2x45



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