



# SINGLE BEAM VISIBLE SPECTROPHOTOMETER BSSBV-102

## SINGLE BEAM VISIBLE SPECTROPHOTOMETER BSSBV-102

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-102 SINGLE BEAM VISIBLE SPECTROPHOTOMETER



Wavelength range: 320nm-1100nm

Optical System: High quality Czerny Turner Diffraction Grating monochromator ensures high resolution, high photometric accuracy and low stray light

Bandwidth: 4nm

Detector: Silicon Photodiode

Measurement Range with ultra-low Stray Light: With its ultra-low stray light ( $\leq 0.2\%$  T (220nm, 340nm)) 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.

## SPECIFICATIONS

Model	BSSBV-102
Wavelength Range	320-1100 nm
Wavelength Accuracy	$\pm 2$ nm
Wavelength Repeatability	$\pm 1$ nm
Spectral Bandwidth	4 nm
Photometric Range	-0.3 to 3 A
0-200 %T	-9999 to 9999 C
Photometric Accuracy	$\pm 0.5\%$ T (0-100%T)
Photometric Repeatability	$\pm 0.2\%$ T (0-100%T)
Stability	$\pm 0.002$ A/hr at 500 nm, 0 A
Baseline Flatness	None
Stray Light	$\leq 0.2\%$ T (220 nm, NaI; 340 nm, NaNO <sub>2</sub> )
Photometric Mode	None
Optical System	Littrow, Grating 1200 line/mm
Monochromator	Littrow Diffraction Monochromator
Gross Dimension (W/D/H)	470x380x200 mm
Display	LCD
Weight (Net/Gross)	14 kg
Power Supply	240V 60Hz

## OPTIONAL ACCESSORIES

Accessory Code	Name	Optical length	Description
3002006006	Quartz Cells - Melt together	1mm	
3002006007	Quartz Cells - Melt together	2mm	
3002006008	Quartz Cells - Melt together	5mm	
3002006009	Quartz Cells - Melt together	10mm	
3002006010	Quartz Cells - Melt together	20mm	
3002006011	Quartz Cells - Melt together	30mm	
3002006012	Quartz Cells - Melt together	40mm	
3002006013	Quartz Cells - Melt together	50mm	
3002006014	Quartz Cells - Melt together	100mm	
3002006015	Glass Cell - Melt together	1mm	
3002006016	Glass Cell - Melt together	2mm	
3002006017	Glass Cell - Melt together	5mm	
3002006018	Glass Cell - Melt together	10mm	
3002006019	Glass Cell - Melt together	20mm	
3002006020	Glass Cell - Melt together	30mm	
3002006021	Glass Cell - Melt together	40mm	
3002006022	Glass Cell - Melt together	50mm	
3002006023	Glass Cell - Melt together	100mm	
3002006024	Quartz fluorescence cell ( With cover ) - Melt together	10mm	
3002006025	10mm Quartz Cells (with plug) - Melt together	10mm	
3002006026	Micro cuvette - Melt together	10mm (1; 2; 4mm slit)	
3002006027	Quartz Cells - Hydrogel type	1mm	
3002006028	Quartz Cells - Hydrogel type	2mm	
3002006029	Quartz Cells - Hydrogel type	5mm	
3002006030	Quartz Cells - Hydrogel type	10mm	
3002006031	Quartz Cells - Hydrogel type	20mm	
3002006032	Quartz Cells - Hydrogel type	30mm	
3002006033	Quartz Cells - Hydrogel type	40mm	
3002006034	Quartz Cells - Hydrogel type	50mm	
3002006035	Quartz Cells - Hydrogel type	100mm	
3002006036	Glass Cell - Hydrogel type	1mm	
3002006037	Glass Cell - Hydrogel type	2mm	
3002006038	Glass Cell - Hydrogel type	5mm	
3002006039	Glass Cell - Hydrogel type	10mm	
3002006040	Glass Cell - Hydrogel type	20mm	
3002006041	Glass Cell - Hydrogel type	30mm	
3002006042	Glass Cell - Hydrogel type	40mm	
3002006043	Glass Cell - Hydrogel type	50mm	
3002006044	Glass Cell - Hydrogel type	100mm	
3002006045	Quartz fluorescence cell ( With cover ) - Hydrogel type	10mm	
3002006046	Micro cuvette - Hydrogel type	10mm (1; 2; 4mm slit)	
3002006047	Black Micro cuvette (avoid light) - Hydrogel type	10mm (1; 2; 4mm slit)	
3002006048	Tungsten Lamp		
3002006049	Deuterium lamp		Heraeus 2.5V



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