



DOUBLE BEAM UV VISIBLE  
SPECTROPHOTOMETER BSDBU-102

# DOUBLE BEAM UV VISIBLE SPECTROPHOTOMETER BSDBU-102

analyzing the emission wavelength of the electromagnetic radiation.

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.

## BSDBU-102 DOUBLE BEAM UV VISIBLE SPECTROPHOTOMETER



Wavelength range: 190-1100nm

Spectral Bandwidth: 1.8nm and 2nm

Detector: Silicon Photodiode

Stray Light: Stray light is achieved at  $\leq 0.03\%T$

Light source: Deuterium and tungsten halogen lamp

LCD display

Automatic wavelength setting

Double beam optical system having suspended posture

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

Equipped with scanning software

High, medium and low scanning speed

Sophisticated and simplified sample analysis software: The sample analysis software provides the 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 that enables results to be stored directly to a USB memory stick for easy transfer of data.

Strengthening and thickening of bottom plate ensures elimination of vibrational or transformational impact on the optical system

Optical system having high quality structural design with technological requirements and raw materials

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

Provides Photometric, Quantitative, Kinetics, Wavelength scan, Multi-wavelength and DNA/Protein Test functions

## SPECIFICATIONS

Model	BSDBU-102
Wavelength Range	190-1100 nm
Wavelength Accuracy	$\pm 0.1$ nm(D2 656.1NM), $\pm 0.3$ nm
Wavelength Reproducibility	$\leq 0.1\%T$
Wavelength Repeatability	$\leq 0.1$ nm
Spectral Bandwidth	2 nm
Photometric Range	0-200%T, -0.3--3A, 0-9999C
Photometric Accuracy	$\pm 0.2\%T$
Photometric Repeatability	$\leq 0.15\%T$
Stability	$\pm 0.0004$ A/h(500nm)
Baseline Flatness	$\pm 0.001A$
Stray Light	$\leq 0.03\%T$
Light Source	Deuterium&Tungsten Halogen Lamp

Detector	Silicon Photodiode
Software	PC Software
Gross Dimension (W/D/H)	625x430x210 mm
Display	LCD
Noise	±0.0005A
Weight (Net/Gross)	28 kg
Power	300 W
Power Supply	220V 50Hz/110V60Hz

## ACCESSORIES

Accessory Code	Name	Unit
3000606019	Glass cuvette (10 mm)	4 pcs
3000606021	Quartz cuvette (10 mm)	2 pcs
3000606023	Dustproof cover	1 pc
3000606026	Software CD	1 pc

Accessory Code	Name	Unit
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)
3000606006	Single Position Cell Holder	10 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				
3000606011	8-Position Cell Holder	10 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)					
3000606022	D2 Lamp A510YXU Milasi					
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)	
3000606047	Micro Quartz Cuvette				Set (2 pcs)	10x2x45



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