



# SPLIT BEAM UV VISIBLE SPECTROPHOTOMETER BSSBU-101

# SPLIT BEAM UV VISIBLE SPECTROPHOTOMETER BSSBU-101

We combine ease of use with reliability for your routine analysis and research applications. Our product offers the measurement range of 190-1100nm at bandwidth of 1.8nm/4nm which provides better performance and increases lab productivity. Its affordable price and availability of optional accessories make it a versatile addition to your lab. Used in Ideal for life science, QA, pharmaceuticals, biochemistry, petrochemical labs, environment protection and general quality control applications..

## BSSBU-101 SPLIT BEAM UV VISIBLE SPECTROPHOTOMETER



Wavelength range: 190nm-1100nm  
Optical System: Split Double beam optical system  
Czerny-Turner diffraction monochromator having 1200 lines/mm grating  
Bandwidth: 1.8nm/4nm  
Wide Measurement Range with ultra-low Stray Light at highest Resolution  
With its ultra-low stray light ( $\leq 0.05\%T$  (220nm, 340nm)) is achieved at wavelength range of 190 - 1100 nm  
A wide range of standard cuvettes can be use based on the sensitivity or sample volume requirements.  
Automatic 4-position cell holder and optional 7-position or 16-position cell holder  
The Sample analysis software deliver scanning, fixed wavelength analysis, quantitative analysis, data collection, storage, export, and reporting.  
USB data interface with online PC software ensures powerful function and data processing capabilities  
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  
Variety of optional accessories suitable for different applications including reflection sample holder, solid sample holder, water bath and auto sampler

## SPECIFICATIONS

| Model                    | BSSBU-101                                      |
|--------------------------|------------------------------------------------|
| Wavelength Range         | 190-1100 nm                                    |
| Wavelength Accuracy      | $\pm 0.5$ nm                                   |
| Wavelength Repeatability | $\pm 0.2$ nm                                   |
| Spectral Bandwidth       | 1.8 nm or 4 nm optional                        |
| Photometric Range        | 0-200 %T                                       |
| -0.3-3.0 A               | -9999-9999 C                                   |
| Photometric Accuracy     | $\pm 0.002A$ (0-0.5A)                          |
| $\pm 0.004A$ (0.5-1A)    | $\pm 0.008A$ (1-2A)                            |
| $\pm 0.3\%$ (0-100%T)    | Photometric Repeatability                      |
| $\pm 0.002A$ (0-0.5A)    | $\pm 0.004A$ (0.5-1A)                          |
| $\pm 0.008A$ (1-2A)      | $\pm 0.15\%$ (0-100%T)                         |
| Stability                | $\pm 0.001$ A/h at 500 nm, 0 A                 |
| Baseline Flatness        | $\pm 0.002$ A                                  |
| Stray Light              | $\leq 0.05\%T$ (220nm, 340nm)                  |
| Optical System           | Split beam, Czerny-Turner; Grating 1200line/mm |
| Software                 | None                                           |
| Gross Dimension (W/D/H)  | 470x390x225 mm                                 |
| Display                  | LCD                                            |

|                    |         |
|--------------------|---------|
| Noise              | ±0.001A |
| Weight (Net/Gross) | 20 kg   |

## 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 |
| 3002006050 | Scanning software                                 |                       |              |



**Biolab Scientific Ltd.**

3660 Midland Avenue, Suite 300, Toronto, Ontario M1V 0B8, Canada

Email: [info@biolabscientific.com](mailto:info@biolabscientific.com) | Website: [www.biolabscientific.com](http://www.biolabscientific.com)