



**DOUBLE BEAM UV VISIBLE
SPECTROPHOTOMETER BSDBU-101**

DOUBLE BEAM UV VISIBLE SPECTROPHOTOMETER BSDBU-101

Designed to conserve benchspace, our product offers the measurement range of 190-1100nm at bandwidth of 1.8nm and 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 $\pm 0.2\%T$ 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.

BSDBU-101 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-101 |
|----------------------------|--|
| Wavelength Range | 190-1100 nm |
| Wavelength Accuracy | ± 0.1 nm(D2 656.1NM), ± 0.3 nm |
| Wavelength Reproducibility | $\leq 0.1\%T$ |
| Wavelength Repeatability | ≤ 0.1 nm |
| Spectral Bandwidth | 1.8 nm |
| Photometric Range | 0-200%T, -0.3--3A, 0-9999C |
| Photometric Accuracy | $\pm 0.2\%T$ |
| Photometric Repeatability | $\leq 0.15\%T$ |
| Stability | ± 0.0004 A/h(500nm) |

| | |
|-------------------------|---------------------------------|
| Baseline Flatness | ±0.001A |
| Stray Light | ≤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 | Description | Unit |
|----------------|------------------------|-------------|-------|
| BX-58426 | Glass cuvette (10 mm) | | 4 pcs |
| BX-58438 | Quartz cuvette (10 mm) | | 2 pcs |
| BX-58450 | Dustproof cover | | 1 pc |
| BX-58474 | Software CD | | 1 pc |
| BX-58486 | USB Cable | | 1 pc |
| BX-58498 | Power cord | | 1 pc |
| BX-58510 | Softdog | | 1 pc |

OPTIONAL ACCESSORIES

| Accessory Code | Name | Description | Volume | Unit |
|----------------|--|-------------|---------|-------------|
| BX-58254 | Single Position Cell Holder | 10 mm | | |
| BX-58266 | Single Position Water Jacketed Ambient Cell Holder | 10 mm | | |
| BX-58278 | 4-Position Cell Holder | 10 mm | | |
| BX-58290 | 4-Position Cell Holder | 50 mm | | |
| BX-58302 | 4-Position Cell Holder | 100 mm | | |
| BX-58314 | 8-Position Cell Holder | 10 mm | | |
| BX-58326 | Adjustable Cell Holder for Micro Cuvettes | | | |
| BX-58338 | Transparent Film Holder | | | |
| BX-58350 | Tube Holder | | | |
| BX-58362 | Thermostatic Controller | | | |
| BX-58374 | Auto Sampler | | | |
| BX-58386 | Auto Thermostatic Sampler | | | |
| BX-58398 | Micro Printer | | | |
| BX-58410 | Tungsten Lamp 6V, 10W (PH) | | | |
| BX-58422 | Tungsten Lamp 12V, 20W (PH) | | | |
| BX-58434 | Tungsten Lamp 12V, 20W (OSRAM) | | | |
| BX-58446 | D2 Lamp A510YXU Milasi | | | |
| BX-58458 | Glass Cuvette | 5x10x45 | 1.7 ml | Set (4 pcs) |
| BX-58470 | Glass Cuvette | 10x10x45 | 3.5 ml | Set (4 pcs) |
| BX-58482 | Glass Cuvette | 20x10x45 | 7 ml | Set (4 pcs) |
| BX-58494 | Glass Cuvette | 30x10x45 | 10.5 ml | Set (4 pcs) |

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|----------|----------------------|-----------|---------|-------------|
| BX-58506 | Glass Cuvette | 40x10x45 | 14 ml | Set (4 pcs) |
| BX-58518 | Glass Cuvette | 50x10x45 | 17.5 ml | Set (4 pcs) |
| BX-58530 | Glass Cuvette | 100x10x45 | 35 ml | Set (4 pcs) |
| BX-58542 | Quartz Cuvette | 5x10x45 | 1.7 ml | Set (2 pcs) |
| BX-58554 | Quartz Cuvette | 10x10x45 | 3.5 ml | Set (2 pcs) |
| BX-58566 | Quartz Cuvette | 20x10x45 | 7 ml | Set (2 pcs) |
| BX-58578 | Quartz Cuvette | 30x10x45 | 10.5 ml | Set (2 pcs) |
| BX-58590 | Quartz Cuvette | 40x10x45 | 14 ml | Set (2 pcs) |
| BX-58602 | Quartz Cuvette | 50x10x45 | 17.5 ml | Set (2 pcs) |
| BX-58614 | Quartz Cuvette | 100x10x45 | 35 ml | Set (2 pcs) |
| BX-58626 | Micro Quartz Cuvette | 10x2x2.5 | 50 µl | Set (2 pcs) |
| BX-58638 | Micro Quartz Cuvette | 10x2x5 | 100 µl | Set (2 pcs) |
| BX-58650 | Micro Quartz Cuvette | 10x2x10 | 200 µl | Set (2 pcs) |
| BX-58662 | Micro Quartz Cuvette | 10x2x25 | 500 µl | Set (2 pcs) |
| BX-58674 | Micro Quartz Cuvette | 10x2x45 | 700 µl | Set (2 pcs) |
| BX-60254 | Micro Quartz Cuvette | 10x2x45 | | Set (2 pcs) |



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