



SINGLE BEAM UV VISIBLE SPECTROPHOTOMETER BSSUV-102

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SINGLE BEAM UV-VIS SPECTROPHOTOMETERS

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.



Wavelength range: 190nm-1100nm
 Optical System: Double beam optical system
 Czerny-Turner diffraction monochromator having 1200 lines/mm grating
 Bandwidth: 1.8nm/4nm
 Detector: Silicon Photodiode
 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
 Multi-wavelength pinpoint test for simultaneous testing of up to 30 wavelengths
 Flexibility with various sample size: A wide range of standard cuvettes can be use based on the sensitivity or sample volume requirements.
 Sophisticated and simplified sample analysis software: The Sample analysis softw

SPECIFICATIONS

Model	BSSUV-102
Wavelength Range	190-1100 nm
Wavelength Accuracy	± 0.1 nm (656.1nm D2)
Wavelength Repeatability	± 0.5 nm
Spectral Bandwidth	2/4 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	± 0.002 A/hr at 500 nm, 0 A
Baseline Flatness	± 0.0015 A
Stray Light	$\leq 0.05\%$ T (220 nm, NaI; 340 nm, NaNO ₂)
Optical System	Accurate double beam, Czerny-Turner, Grating 1200 line/mm
Monochromator	Littrow Diffraction Monochromator
Software	PC with online software
Gross Dimension (W/D/H)	470x390x225 mm
Display	LCD (320x240 pixel)
Weight (Net/Gross)	16 kg
Power	100 W
Power Supply	90-230V
Alt Name	Single Beam UV-Vis Spectrophotometers

ACCESSORIES FOR PURCHASE

No	Accessory Code	Name	Optical length
1	3002006006	Quartz Cells - Melt together	1mm
2	3002006007	Quartz Cells - Melt together	2mm
3	3002006008	Quartz Cells - Melt together	5mm
4	3002006009	Quartz Cells - Melt together	10mm
5	3002006010	Quartz Cells - Melt together	20mm

6	3002006011	Quartz Cells - Melt together	30mm
7	3002006012	Quartz Cells - Melt together	40mm
8	3002006013	Quartz Cells - Melt together	50mm
9	3002006014	Quartz Cells - Melt together	100mm
10	3002006015	Glass Cell - Melt together	1mm
11	3002006016	Glass Cell - Melt together	2mm
12	3002006017	Glass Cell - Melt together	5mm
13	3002006018	Glass Cell - Melt together	10mm
14	3002006019	Glass Cell - Melt together	20mm
15	3002006020	Glass Cell - Melt together	30mm
16	3002006021	Glass Cell - Melt together	40mm
17	3002006022	Glass Cell - Melt together	50mm
18	3002006023	Glass Cell - Melt together	100mm
19	3002006024	Quartz fluorescence cell (With cover) - Melt together	10mm
20	3002006025	10mm Quartz Cells (with plug) - Melt together	10mm
21	3002006026	Micro cuvette - Melt together	10mm (1; 2; 4mm slit)
22	3002006027	Quartz Cells - Hydrogel type	1mm
23	3002006028	Quartz Cells - Hydrogel type	2mm
24	3002006029	Quartz Cells - Hydrogel type	5mm
25	3002006030	Quartz Cells - Hydrogel type	10mm
26	3002006031	Quartz Cells - Hydrogel type	20mm
27	3002006032	Quartz Cells - Hydrogel type	30mm
28	3002006033	Quartz Cells - Hydrogel type	40mm
29	3002006034	Quartz Cells - Hydrogel type	50mm
30	3002006035	Quartz Cells - Hydrogel type	100mm
31	3002006036	Glass Cell - Hydrogel type	1mm
32	3002006037	Glass Cell - Hydrogel type	2mm
33	3002006038	Glass Cell - Hydrogel type	5mm
34	3002006039	Glass Cell - Hydrogel type	10mm
35	3002006040	Glass Cell - Hydrogel type	20mm
36	3002006041	Glass Cell - Hydrogel type	30mm
37	3002006042	Glass Cell - Hydrogel type	40mm
38	3002006043	Glass Cell - Hydrogel type	50mm
39	3002006044	Glass Cell - Hydrogel type	100mm
40	3002006045	Quartz fluorescence cell (With cover) - Hydrogel type	10mm
41	3002006046	Micro cuvette - Hydrogel type	10mm (1; 2; 4mm slit)
42	3002006047	Black Micro cuvette (avoid light) - Hydrogel type	10mm (1; 2; 4mm slit)
43	3002006048	Tungsten Lamp	
44	3002006049	Deuterium lamp	

FEATURES

Wavelength range: 190nm-1100nm

Optical System: Double beam optical system

Czerny-Turner diffraction monochromator having 1200 lines/mm grating

Bandwidth: 1.8nm/4nm

Detector: Silicon Photodiode

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

Multi-wavelength pinpoint test for simultaneous testing of up to 30 wavelengths

Flexibility with various sample size: A wide range of standard cuvettes can be use 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 the 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.

USB data interface with online PC software ensures powerful function and data processing capabilities

Automatic 4-position cell holder and optional 7-position or 16-position cell holder

Variety of optional accessories suitable for different applications including reflection sample holder, solid sample holder, water bath and auto sampler.

APPLICATIONS

Ideal for life science, QA, pharmaceuticals, clinical, environmental and general quality control applications.



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