



SCANNING UV VISIBLE SPECTROPHOTOMETER

SCANNING UV VISIBLE SPECTROPHOTOMETER

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/4m 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, clinical, environmental and general quality control applications..

100 SCANNING UV VISIBLE SPECTROPHOTOMETER



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 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

SPECIFICATIONS

Model	BSSCU-101	BSSCU-102	BSSNU-101
Wavelength Range	190-1100 nm		
Wavelength Accuracy	± 0.5 nm		
Wavelength Repeatability	0.3 nm		
Spectral Bandwidth	4 nm	2 nm	4 nm
Photometric Range	0-200 %T, -0.3 - 3.0 A, 0-9999 C		
Photometric Accuracy	$\pm 0.5\%T$ or $\pm 0.004 A @ 1A$		
Stability	0.0008 A/h @ 500 nm		
Baseline Flatness	$\pm 0.002 A$		
Scan Speed	Hi, Med., Low, Max 3000 nm/min		
Stray Light	0.05 %T @ 220 nm, 360 nm		
Light Source	Tungsten and Deuterium Lamp		
Optical System	Single Beam , Grating 1200 lines/mm		
Gross Dimension (W/D/H)	491x365x180 mm		
Display	5 inches LCD (320*240 dots)		
Weight (Net/Gross)	14 kg		
Power Supply	AC110V/220V 50Hz/60Hz		

OPTIONAL ACCESSORIES

Accessory Code	Name	Description	Unit	Light Path (mm)
3000806007	Holder	4-cell holder for up to 50mm square cuvette		
3000806008	Holder	4-cell holder for up to 100mm square cuvette		
3000806009	Holder	Long path single cell holder for 100mm		
3000806010	Holder	Single cell holder for 10mm square Cuvette		
3000806011	Holder	Cylindrical cell holder(Φ16mm)		
3000806019	Other	5° reflectance meachment attachment (minimum sample:20x20mm ;central beam height:50mm)	/1pc	
3000806020	Lamp	6v10w halogen lamp	/1pc	
3000806021	Lamp	12v20w halogen lamp (phillips)		
3000806022	Lamp	12v20w halogen lamp (osram)		
3000806023	Lamp	Milas deuterium lamp; 10v;300ma; 30w		
3000806024	Lamp	Deuterium lamp	/1pc	
3000806025	Thermo printer			
3000806026	Stylus printer			
3000806027	Cuvettes	Square cuvettes; glass 10mm	/4pcs	
3000806028	Cuvettes	Square cuvettes; glass 20mm	/4pcs	
3000806029	Cuvettes	Square cuvettes; glass 30mm	/4pcs	
3000806030	Cuvettes	Square cuvettes; glass 50mm	/4pcs	
3000806031	Cuvettes	Square cuvettes; glass 100mm	/4pcs	
3000806032	Cuvettes	Square cuvettes; quartz 10mm	/2pcs	
3000806033	Cuvettes	Square cuvettes; quartz 20mm	/2pcs	
3000806034	Cuvettes	500ul micro cell ; central-beam height:8.5mm;15mm; 2x10x45mm; quartz	/1pc	
3000806035	Cuvettes	1000ul micro cell; central-beam height:8.5mm;15mm; 3x10x45mm; quartz	/1pc	
3000806036	Software	Dongles for 31.61 application software ; (UV analyst software)	/1set	
3000806037	Software	Software (m.wave basic)	/1set	
3000806038	Software	Software	/1set	
3000806039	Software	Advanced PC window software (m.wave professional)	/1set	
3000806040	Software	Software (m.wave basic)	/1set	
3000806041	Holder	Cell holder for micro cells; Central beam height: 15mm		
3000806042	USB connector line	USB connector line (only for m.wave basic)	/1pc	
3000806043	Quartz Cuvette	Cell; 100ul; 1pcs; central beam height: 15mm		10
3000806044	Quartz Cuvette	Cell; 200ul; 1pcs;central beam height:15mm		10
3000806045	Cuvette	Flow cell; 5 mm; optical glass; 1pcs;central beam height:15mm; I5xw2xh5mm		
3000806046	Cuvette	Flow cell; 10 mm; optical glass; 1pcs;central beam height:15mm; I10xw2xh5mm		
3000806047	Cuvette	Flow cell; 20 mm; optical glass; 1pcs;central beam height:15mm;I20xw2xh5mm		
3000806048	Cuvette	Flow cell; 30 mm; optical glass; 1pcs;central beam height:15mm; I30xw2xh5mm		
3000806049	Cuvette	Flow cell; 5 mm; quartz; 1pcs; central beam height:15mm; I5xw2xh5mm		
3000806050	Cuvette	Flow cell; 20 mm; quartz; 1pcs; central beam height:15mm; I20xw2xh5mm		
3001807006	Other	A-102 peltier system; constant-temperature system; holder beam height:15mm		

3000806052	Other	A-100 peltier/sipper system; constant-temperature sipper system; holder beam height:15mm		
3001808008	Holder	4-cell holder for 10mm to 50mm square cuvette		
3001806009	Holder	4-cell holder for up to 100mm square cuvette		
3000806054	Holder	10mm water-jacketed 4-cell holder		
3000806055	Holder	Test tube holder(Φ 8- Φ 22mm)		
3000806056	Holder	Solid sample holder(δ 1.5mm-3mm; 1-position)		
3000806057	Silicon tube	Silicon tube; 1bag=1pair(1m+1m)	/1bag	
3000806060	Glass cuvettes	Square cuvettes; volume:900ul		2
3000806061	Glass cuvettes	Square cuvettes; volume:450ul		1
3000806062	Quartz cuvettes	Square cuvettes; volume:1800ul	/2pcs	5



BSSCU-101



BSSCU-102



BSSNU-101

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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

SPECIFICATIONS

Model	BSSNU-102	BSSNU-103	BSSNU-104
Wavelength Range	190-1100 nm		
Wavelength Accuracy	± 0.5 nm	± 0.3 nm	

Wavelength Repeatability	0.3 nm	0.2 nm
Spectral Bandwidth	2 nm	1.8 nm 1 nm
Photometric Range	0-200 %T, -0.3 - 3.0 A, 0-9999 C	
Photometric Accuracy	±0.5 %T or ±0.004 A @ 1A	±0.3 %T or ±0.003 A @ 1A
Stability	0.0008 A/h @ 500 nm	±0.0008 A/h @ 500 nm
Baseline Flatness	±0.002 A	±0.0015 A
Scan Speed	Hi, Med., Low, Max 3000 nm/min	
Stray Light	0.05 %T @ 220 nm, 360 nm	
Light Source	Tungsten and Deuterium Lamp	
Optical System	Single Beam , Grating 1200 lines/mm	
Software	PC Software	
Gross Dimension (W/D/H)	491x365x180 mm	579x428x198 mm
Display	5 inches LCD (320*240 dots)	
Weight (Net/Gross)	14 kg	20 kg
Power Supply	AC110V/220V 50Hz/60Hz	

Model	BSSUB-101	BSSUB-101-PC
Wavelength Range	190-1100 nm	
Wavelength Accuracy	±0.3 nm	
Wavelength Repeatability	0.2 nm	
Spectral Bandwidth	1.8 nm	0.5/1/2/4/5 nm variable
Photometric Range	0.200 %T, -0.3-3.0 A	
Photometric Accuracy	±0.002A(0~0.5A),±0.003A (0.5~1A), ±0.3%T (0~100%T)	
Stability	±0.002 A/h at 500 nm	
Baseline Flatness	±0.0015A	
Scan Speed	High, Med., Low, Max 2000 nm/min	
Stray Light	0.05 %T at (220/360 nm)	
Light Source	Tungsten Halogen Lamp and Deuterium Lamp	
Optical System	Split Beam Ratio Monitoring, Blazed Holographic Grating (1200 lines/mm)	
Software	PC Scanning Software	
Gross Dimension (W/D/H)	545x468x245mm	635x515x255mm
Display	Graphic LCD	
Weight (Net/Gross)	19kgs / 24kgs	
Power Supply	AC110V/220V 50Hz/60Hz	

OPTIONAL ACCESSORIES

Accessory Code	Name	Description	Unit	Light Path (mm)	Optical length	For Models
3000806007	Holder	4-cell holder for up to 50mm square cuvette				BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3000806008	Holder	4-cell holder for up to 100mm square cuvette				BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3000806009	Holder	Long path single cell holder for 100mm				BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3000806010	Holder	Single cell holder for 10mm square Cuvette				BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101

3000806011	Holder	Cylindrical cell holder(Φ 16mm)				BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3000806019	Other	5° reflectance meachment attachment (minimum sample:20x20mm ;central beam height:50mm)	/1pc			BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3000806020	Lamp	6v10w halogen lamp	/1pc			BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3000806021	Lamp	12v20w halogen lamp (phillips)				BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3000806022	Lamp	12v20w halogen lamp (osram)				BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3000806023	Lamp	Milas deuterium lamp; 10v;300ma; 30w				BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3000806024	Lamp	Deuterium lamp	/1pc			BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3000806025	Thermo printer					BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3000806026	Stylus printer					BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3000806027	Cuvettes	Square cuvettes; glass 10mm	/4pcs			BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3000806028	Cuvettes	Square cuvettes; glass 20mm	/4pcs			BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3000806029	Cuvettes	Square cuvettes; glass 30mm	/4pcs			BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3000806030	Cuvettes	Square cuvettes; glass 50mm	/4pcs			BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3000806031	Cuvettes	Square cuvettes; glass 100mm	/4pcs			BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3000806032	Cuvettes	Square cuvettes; quartz 10mm	/2pcs			BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3000806033	Cuvettes	Square cuvettes; quartz 20mm	/2pcs			BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3000806034	Cuvettes	500ul micro cell ; central-beam height:8.5mm;15mm; 2x10x45mm; quartz	/1pc			BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3000806035	Cuvettes	1000ul micro cell; central-beam height:8.5mm;15mm; 3x10x45mm; quartz	/1pc			BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3000806036	Software	Dongles for 31.61 application software ; (UV analyst software)	/1set			BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3000806037	Software	Software (m.wave basic)	/1set			BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3000806038	Software	Software	/1set			BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3000806039	Software	Advanced PC window software (m.wave professional)	/1set			BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3000806040	Software	Software (m.wave basic)	/1set			BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3000806041	Holder	Cell holder for micro cells; Central beam height: 15mm				BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3000806042	USB connector line	USB connector line (only for m.wave basic)	/1pc			BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101

3000806043	Quartz Cuvette	Cell; 100ul; 1pcs; central beam height: 15mm		10		BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3000806044	Quartz Cuvette	Cell; 200ul; 1pcs; central beam height: 15mm		10		BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3000806045	Cuvette	Flow cell; 5 mm; optical glass; 1pcs; central beam height: 15mm; 15xw2xh5mm				BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3000806046	Cuvette	Flow cell; 10 mm; optical glass; 1pcs; central beam height: 15mm; 110xw2xh5mm				BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3000806047	Cuvette	Flow cell; 20 mm; optical glass; 1pcs; central beam height: 15mm; 120xw2xh5mm				BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3000806048	Cuvette	Flow cell; 30 mm; optical glass; 1pcs; central beam height: 15mm; 130xw2xh5mm				BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3000806049	Cuvette	Flow cell; 5 mm; quartz; 1pcs; central beam height: 15mm; 15xw2xh5mm				BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3000806050	Cuvette	Flow cell; 20 mm; quartz; 1pcs; central beam height: 15mm; 120xw2xh5mm				BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3001807006	Other	A-102 peltier system; constant-temperature system; holder beam height: 15mm				BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3000806052	Other	A-100 peltier/sipper system; constant-temperature sipper system; holder beam height: 15mm				BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3001808008	Holder	4-cell holder for 10mm to 50mm square cuvette				BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3001806009	Holder	4-cell holder for up to 100mm square cuvette				BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3000806054	Holder	10mm water-jacketed 4-cell holder				BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3000806055	Holder	Test tube holder(Φ8-Φ22mm)				BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3000806056	Holder	Solid sample holder(δ1.5mm-3mm; 1-position)				BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3000806057	Silicon tube	Silicon tube; 1bag=1pair(1m+1m)	/1bag			BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3000806060	Glass cuvettes	Square cuvettes; volume: 900ul		2		BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3000806061	Glass cuvettes	Square cuvettes; volume: 450ul		1		BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3000806062	Quartz cuvettes	Square cuvettes; volume: 1800ul	/2pcs	5		BSSNU-102, BSSNU-103, BSSNU-104, BSSUB-101
3002006006	Quartz Cells - Melt together				1mm	BSSUB-101-PC
3002006007	Quartz Cells - Melt together				2mm	BSSUB-101-PC
3002006008	Quartz Cells - Melt together				5mm	BSSUB-101-PC
3002006009	Quartz Cells - Melt together				10mm	BSSUB-101-PC
3002006010	Quartz Cells - Melt together				20mm	BSSUB-101-PC
3002006011	Quartz Cells - Melt together				30mm	BSSUB-101-PC

3002006012	Quartz Cells - Melt together			40mm	BSSUB-101-PC
3002006013	Quartz Cells - Melt together			50mm	BSSUB-101-PC
3002006014	Quartz Cells - Melt together			100mm	BSSUB-101-PC
3002006015	Glass Cell - Melt together			1mm	BSSUB-101-PC
3002006016	Glass Cell - Melt together			2mm	BSSUB-101-PC
3002006017	Glass Cell - Melt together			5mm	BSSUB-101-PC
3002006018	Glass Cell - Melt together			10mm	BSSUB-101-PC
3002006019	Glass Cell - Melt together			20mm	BSSUB-101-PC
3002006020	Glass Cell - Melt together			30mm	BSSUB-101-PC
3002006021	Glass Cell - Melt together			40mm	BSSUB-101-PC
3002006022	Glass Cell - Melt together			50mm	BSSUB-101-PC
3002006023	Glass Cell - Melt together			100mm	BSSUB-101-PC
3002006024	Quartz fluorescence cell (With cover) - Melt together			10mm	BSSUB-101-PC
3002006025	10mm Quartz Cells (with plug) - Melt together			10mm	BSSUB-101-PC
3002006026	Micro cuvette - Melt together			10mm (1; 2; 4mm slit)	BSSUB-101-PC
3002006027	Quartz Cells - Hydrogel type			1mm	BSSUB-101-PC
3002006028	Quartz Cells - Hydrogel type			2mm	BSSUB-101-PC
3002006029	Quartz Cells - Hydrogel type			5mm	BSSUB-101-PC
3002006030	Quartz Cells - Hydrogel type			10mm	BSSUB-101-PC
3002006031	Quartz Cells - Hydrogel type			20mm	BSSUB-101-PC
3002006032	Quartz Cells - Hydrogel type			30mm	BSSUB-101-PC
3002006033	Quartz Cells - Hydrogel type			40mm	BSSUB-101-PC
3002006034	Quartz Cells - Hydrogel type			50mm	BSSUB-101-PC
3002006035	Quartz Cells - Hydrogel type			100mm	BSSUB-101-PC
3002006036	Glass Cell - Hydrogel type			1mm	BSSUB-101-PC
3002006037	Glass Cell - Hydrogel type			2mm	BSSUB-101-PC

3002006038	Glass Cell - Hydrogel type			5mm	BSSUB-101-PC
3002006039	Glass Cell - Hydrogel type			10mm	BSSUB-101-PC
3002006040	Glass Cell - Hydrogel type			20mm	BSSUB-101-PC
3002006041	Glass Cell - Hydrogel type			30mm	BSSUB-101-PC
3002006042	Glass Cell - Hydrogel type			40mm	BSSUB-101-PC
3002006043	Glass Cell - Hydrogel type			50mm	BSSUB-101-PC
3002006044	Glass Cell - Hydrogel type			100mm	BSSUB-101-PC
3002006045	Quartz fluorescence cell (With cover) - Hydrogel type			10mm	BSSUB-101-PC
3002006046	Micro cuvette - Hydrogel type			10mm (1; 2; 4mm slit)	BSSUB-101-PC
3002006047	Black Micro cuvette (avoid light) - Hydrogel type			10mm (1; 2; 4mm slit)	BSSUB-101-PC
3002006048	Tungsten Lamp				BSSUB-101-PC
3002006049	Deuterium lamp	Heraeus 2.5V			BSSUB-101-PC
3002006050	Scanning software				BSSUB-101-PC



BSSNU-102



BSSNU-103



BSSNU-104



BSSUB-101



BSSUB-101-PC



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