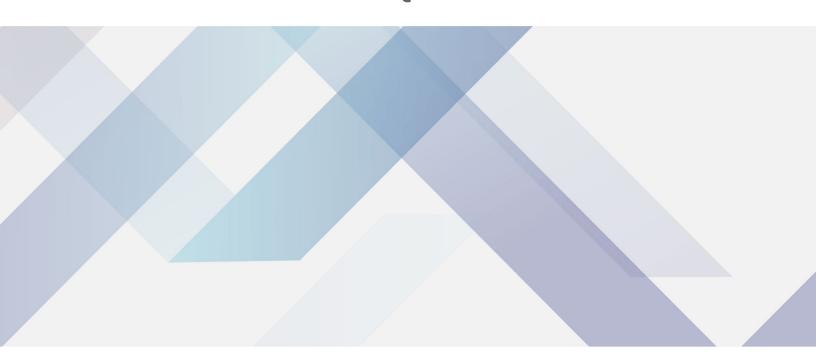






# SINGLE BEAM UV VISIBLE SPECTROPHOTOMETER BEQ1L1





## SINGLE BEAM UV VISIBLE SPECTROPHOTOMETER BEQ1L1

#### 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 ±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 (≤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	BEQ1L1	
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	±0.5 %T (0-100%T)	
Photometric Repeatability	±0.2 %T (0-100%T)	
Stability	±0.002 A/hr at 500 nm, 0 A	
Baseline Flatness	±0.0015 A	
Stray Light	≤ 0.05%T (220 nm, NaI; 340 nm, NaNO2)	
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	Description
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	

7         3002006012         Quartz Cells - Melt together         50mm           8         3002006013         Quartz Cells - Melt together         100mm           10         3002006014         Quartz Cells - Melt together         100mm           11         3002006015         Glass Cell - Melt together         2mm           12         3002006017         Glass Cell - Melt together         5mm           14         3002006019         Glass Cell - Melt together         10mm           15         3002006010         Glass Cell - Melt together         20mm           16         3002006020         Glass Cell - Melt together         30mm           16         3002006021         Glass Cell - Melt together         50mm           18         3002006022         Glass Cell - Melt together         50mm           19         3002006023         Glass Cell - Melt together         10mm           19         3002006024         Quartz fluorescence cell (With cover) - Melt together         10mm           20         3002006025         Tomm Quartz Cells (with plug) - Melt together         10mm (1; 2; 4mm silt)           21         3002006025         Quartz Cells - Hydrogel type         2mm           23         3002006022         Quartz Cells - Hydrogel type <td< th=""><th>6</th><th>3002006011</th><th>Quartz Cells - Melt together</th><th>30mm</th><th></th></td<>	6	3002006011	Quartz Cells - Melt together	30mm	
8         3002006013         Quartz Cells - Melt together         100mm           9         3002006014         Quartz Cells - Melt together         1mm           11         3002006015         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         3002006022         Glass Cell - Melt together         10mm           19         3002006022         Glass Cell - Melt together         10mm           20         3002006022         Quartz fluorescence cell (With cover) - Melt together         10mm           3002006025         Jomm Quartz Cells (with plug) - Melt together         10mm (1; 2; 4mm slit)           3002006026         Vaurtz Cells - Hydrogel type         2mm           3002006027         Quartz Cells - Hydrogel type         3mm           3002006030	7	3002006012	-		
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12         3002060617         Glass Cell - Melt together         10mm         10mm           13         300206018         Glass Cell - Melt together         20mm         10mm           14         300206019         Glass Cell - Melt together         30mm         10mm           15         300206020         Glass Cell - Melt together         40mm         10mm           16         300206021         Glass Cell - Melt together         50mm         10mm           17         300206022         Glass Cell - Melt together         100mm         10mm           18         300206023         Glass Cell - Melt together         10mm         10mm           19         300206024         Quartz fluorescence cell (With cover) - Melt together         10mm         10mm           20         300206025         10mm Quartz Cells (With plug) - Melt together         10mm         10mm           20         300206026         Micro cuvette - Melt together         10mm (1; 2; 4mm slit)         10mm           21         300206027         Quartz Cells - Hydrogel type         2mm         10mm           23         300206029         Quartz Cells - Hydrogel type         3mm         10mm           25         300206029         Quartz Cells - Hydrogel type         30mm	10	3002006015		1mm	
13         3002006018         Glass Cell - Melt together         20mm         1           15         3002006020         Glass Cell - Melt together         30mm         1           16         3002006020         Glass Cell - Melt together         30mm         1           17         3002006021         Glass Cell - Melt together         50mm         1           18         3002006023         Glass Cell - Melt together         100mm         1           19         3002006024         Quartz florescence cell ( With cover) - Melt together         10mm         1           20         3002006025         10mm Quartz Cells ( With plug) - Melt together         10mm         1           21         3002006025         10mm Quartz Cells - Hydrogel type         10mm (1; 2; 4mm slit)         1           22         3002006026         Micro cuvette - Melt together         10mm (1; 2; 4mm slit)         1           23         3002006027         Quartz Cells - Hydrogel type         2mm         1           24         3002006028         Quartz Cells - Hydrogel type         3mm         1           25         3002006030         Quartz Cells - Hydrogel type         30mm         1           26         3002006031         Quartz Cells - Hydrogel type         30mm	11	3002006016	Glass Cell - Melt together	2mm	
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15         3002006020         Glass Cell - Melt together         40mm         40mm           16         3002006021         Glass Cell - Melt together         50mm         40mm           17         3002006022         Glass Cell - Melt together         50mm         40mm           18         3002006023         Glass Cell - Melt together         100mm         100mm           19         3002006024         Quartz fluorescence cell ( With cover) - Melt together         10mm         40mm           21         3002006025         10mm Quartz Cells ( With plug) - Melt together         10mm         40mm           21         3002006026         Micro cuvette - Melt together         10mm (1; 2; 4mm slit)         40mm           22         3002006027         Quartz Cells - Hydrogel type         2mm         40mm           23         3002006028         Quartz Cells - Hydrogel type         5mm         40mm           24         3002006030         Quartz Cells - Hydrogel type         20mm         40mm           25         3002006031         Quartz Cells - Hydrogel type         30mm         40mm           29         3002006032         Quartz Cells - Hydrogel type         30mm         40mm           30         3002006033         Quartz Cells - Hydrogel type	13	3002006018	Glass Cell - Melt together	10mm	
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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 (1; 2; 4mm slit)           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         2mm           25         3002006030         Quartz Cells - Hydrogel type         20mm           26         3002006031         Quartz Cells - Hydrogel type         30mm           27         3002006032         Quartz Cells - Hydrogel type         30mm           28         3002006033         Quartz Cells - Hydrogel type         50mm           30         3002006034         Quartz Cells - Hydrogel type         100mm           31         3002006035         Quartz Cells - Hydrogel type         2mm           32         3002006036         Glass Cell - H	15	3002006020	Glass Cell - Melt together	30mm	
18         3002006023         Glass Cell - Melt together         100mm         100mm           19         3002006024         Quartz fluorescence cell (With cover) - Melt together         10mm         100mm           20         3002006025         10mm Quartz Cells (with plug) - Melt together         10mm (1; 2; 4mm slit)         100mm           21         3002006026         Micro cuvette - Melt together         10mm (1; 2; 4mm slit)         100mm           22         3002006027         Quartz Cells - Hydrogel type         2mm         100mm           23         3002006028         Quartz Cells - Hydrogel type         2mm         100mm           24         3002006029         Quartz Cells - Hydrogel type         20mm         100mm           25         3002006030         Quartz Cells - Hydrogel type         30mm         100mm           27         3002006031         Quartz Cells - Hydrogel type         30mm         100mm           28         3002006032         Quartz Cells - Hydrogel type         50mm         100mm           29         3002006033         Quartz Cells - Hydrogel type         100mm         100mm           30         3002006034         Quartz Cells - Hydrogel type         50mm         100mm           30         3002006035         Glas	16	3002006021	Glass Cell - Melt together	40mm	
19       3002006024       Quartz fluorescence cell (With cover) - Melt together       10mm         20       3002006025       10mm Quartz Cells (with plug) - Melt together       10mm (1; 2; 4mm slit)         21       3002006026       Micro cuvette - Melt together       10mm (1; 2; 4mm slit)         22       3002006027       Quartz Cells - Hydrogel type       2mm         23       3002006028       Quartz Cells - Hydrogel type       5mm         24       3002006029       Quartz Cells - Hydrogel type       5mm         25       3002006030       Quartz Cells - Hydrogel type       20mm         26       3002006031       Quartz Cells - Hydrogel type       30mm         27       3002006032       Quartz Cells - Hydrogel type       30mm         28       3002006033       Quartz Cells - Hydrogel type       50mm         30       3002006034       Quartz Cells - Hydrogel type       100mm         30       3002006035       Quartz Cells - Hydrogel type       100mm         31       3002006036       Glass Cell - Hydrogel type       1mm         32       3002006037       Glass Cell - Hydrogel type       5mm         33       3002006038       Glass Cell - Hydrogel type       5mm         34       3002006039 <td< td=""><td>17</td><td>3002006022</td><td>Glass Cell - Melt together</td><td>50mm</td><td></td></td<>	17	3002006022	Glass Cell - Melt together	50mm	
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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       30mm         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       2mm         32       3002006037       Glass Cell - Hydrogel type       5mm         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<	21	3002006026	Micro cuvette - Melt together	10mm (1; 2; 4mm slit)	
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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       20mm         35       3002006040       Glass Cell - Hydrogel type       30mm         36       3002006041       Glass Cell - Hydrogel type       40mm         37       3002006042       Glass Cell - Hydrogel type       50mm         38       3002006043       Glass Cell - Hydrogel type       50mm         39       3002006044       Glass Cell - Hydrogel type       100mm         40       3002006045       Quartz fluorescence cell ( With cover) - Hydrogel type       10mm	28	3002006033	Quartz Cells - Hydrogel type	40mm	
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	29	3002006034	Quartz Cells - Hydrogel type	50mm	
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	30	3002006035	Quartz Cells - Hydrogel type	100mm	
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	31	3002006036	Glass Cell - Hydrogel type	1mm	
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	32	3002006037	Glass Cell - Hydrogel type	2mm	
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	33	3002006038	Glass Cell - Hydrogel type	5mm	
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	34	3002006039	Glass Cell - Hydrogel type	10mm	
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	35	3002006040	Glass Cell - Hydrogel type	20mm	
38       3002006043       Glass Cell - Hydrogel type       50mm         39       3002006044       Glass Cell - Hydrogel type       100mm         40       3002006045       Quartz fluorescence cell ( With cover) - Hydrogel type       10mm	36	3002006041	Glass Cell - Hydrogel type	30mm	
39 3002006044 Glass Cell - Hydrogel type 100mm 40 3002006045 Quartz fluorescence cell ( With cover) - Hydrogel type 10mm	37	3002006042	Glass Cell - Hydrogel type	40mm	
40 3002006045 Quartz fluorescence cell ( With cover) - Hydrogel type 10mm	38	3002006043	Glass Cell - Hydrogel type	50mm	
	39	3002006044	Glass Cell - Hydrogel type	100mm	
41 3002006046 Micro cuyette - Hydrogel type 10mm (1: 2: 4mm clit)	40	3002006045	Quartz fluorescence cell ( With cover) - Hydrogel type	10mm	
TI SOULOGOOGTO THICH CAVELLE - TIYOTOBEL TYPE	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)	42	3002006047	Black Micro cuvette (avoid light) - Hydrogel type	10mm (1; 2; 4mm slit)	
43 3002006048 Tungsten Lamp	43	3002006048	Tungsten Lamp		
44         3002006049         Deuterium lamp         Heraeus 2.5V	44	3002006049	Deuterium lamp		Heraeus 2.5V

# **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 (≤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.



### Biolab Scientific Ltd.