Müller
SCIENTIFIC



UV/VIS SPECTROPHOTOMETER

Your reliable Laboratory &
Medical instruments specialist

Müller
SCIENTIFIC

VIS SPECTROPHOTOMETER



BNVIS-S100 / BNVIS-S110 / BNVIS-S120

Single Beam Visible spectrophotometer



BNVIS-S100 / BNVIS-S110



BNVIS-S120

Features

- High accuracy, Good Reproducibility and Stability of Measurement Readings
- Backlit LCD display for an easy readout.
- Precise automatic T/A changeover
- Automatic zero and full scale adjustment
- Easy to change the Tungsten lamp by the user himself

Specification

Model	BNVIS-S100	BNVIS-S110	BNVIS-S120
Optical system	Single Beam, Grating 1200 lines/mm		
Wavelength Range	325-1000nm	340-1000nm	340-1000nm
Spectrum Bandwidth	5nm		
Wavelength Accuracy	±2nm		
Wavelength Repeatability	≤1nm		
Stray Light	≤0.5%T (at 360nm NaNo2)		≤0.1%T (at 360nm NaNo2)
Photometric Range	0-100.0%T 0-1.999A 0-1999C		
Photometric Accuracy	±0.5%T		
Photometric Repeatability	≤0.2%T		
Noise	100% (T) noise≤0.3%(T)， 0% (T) noise≤0.2%(T)		
Drifting	±0.5 %T/3min		
Display	Backlit LCD		
Photometric model	T.A		
Monochromator Type	Czerny-Turner		
Detector	Silicon Photocell		
Light source	Tungsten lamp		
Wavelength Setting	Manual Turn Knob		
Standard cell Holder	4 position 50mm cell holder		4 position 10mm cell holder
Sample compartment	10mm pathlength cuvette		
Output Interface	RS232 port		USB port
PC software	Optional		
Power	AC220V 50Hz 50W		AC220V 50Hz 80W
Packaging Size	560X490X285mm		580X460X345mm
G.W.	14kg		12.5kg
Standard Accessories	Glass cuvette 10mm×4, Fuse×2, Power cable, User manual		

BNVIS-S130

Single Beam Visible spectrophotometer



Features

- High accuracy, Good Reproducibility and Stability of Measurement Readings
- 7-inch multi color touch-screen
- Precise automatic T/A changeover
- Automatic zero and full scale adjustment
- Direct concentration read-out and concentration factor setting function
- Easy to change the Tungsten lamp by the user himself

Specifications

Model	BNVIS-S130
Optical system	Single Beam, Grating 1200 lines/mm
Wavelength Range	325-1000nm
Spectrum Bandwidth	2nm
Wavelength Accuracy	±2nm
Wavelength Repeatability	≤1nm
Stray Light	≤0.1%T(at 220nm NaI, 360nm NaNo2)
Photometric Range	0-100.0%T 0-1.999A 0-1999C
Photometric Accuracy	±0.5%T
Photometric Repeatability	≤0.2%T
Noise	100% (T) noise≤0.3%(T)， 0% (T) noise≤0.2%(T)
Drifting	±0.5 %T/3min
Display	7-inch multi color touch-screen
Photometric model	T.A.C
Monochromator Type	Czerny-Turner
Detector	Silicon Photocell
Light source	Tungsten lamp
Wavelength Setting	Manual Turn Knob
Standard cell Holder	4 position 10mm cell holder
Sample compartment	10mm pathlength cuvette
Output Interface	USB port
PC software	Optional
Power	AC220V 50Hz 80W
Packaging Size	580X460X345mm
G.W.	16.5kg
Standard Accessories	Glass cuvette 10mm×4, Fuse×2, Power cable, User manual

BNVIS-S140 / BNVIS-S150

Single Beam Visible spectrophotometer



Feature

- Single beam VIS spectrophotometer
- 4.3 inch touch screen

Specifications

Model	BNVIS-S140	BNVIS-S150
Optical system	Single Beam, holographic grating 1200 lines/mm	
Wavelength Range	325-1100 nm	
Spectral Bandwidth	4 nm	2 nm
Wavelength Accuracy	±1.0 nm	
Wavelength Repeatability	0.5 nm	
Photometric Range	0 – 200%T, -0.301 – 3.000Abs, -9999 – 9999C, -9999 – 9999F	
Transmittance Accuracy	±0.5 %T	
Transmittance Repeatability	0.2 %T	
Stray Light	0.3 %T(at 360nm)	0.2 %T(at 360nm)
Baseline Flatness	/	≤±0.004 Abs
Baseline Drift	≤0.002 Abs / half hour (after warm-up at 500 nm)	
Display Screen	4.3 inch color touch-screen display, LCD	
Photometric model	T.A.C	
Monochromator Type	Czerny-Turner	
Detector	silicon photocell	
Wavelength Calibration	automatic calibration after starting up	
Wavelength Resolution	0.1 nm	
Light Source	tungsten lamp (2000h, 20W/12V)	
Output Interface	USB interface	
Standard cell Holder	4 position 50mm adjustable sample holder (10mm, 20mm, 30mm, 40mm, 50mm, position-adjustable)	
Sample compartment	10mm pathlength cuvette	
PC software	NO	YES
Power	220V 50Hz 90VA / 110V 60Hz 90VA	
Overall Dimension	470×380×225mm (L*W*H)	
Package Dimension	650×539×370mm (L*W*H)	
Net Weight	10.5 Kg	
Gross Weight	14.5 Kg	
Standard Accessories	Glass cuvette 10mm×4, Fuse×2, Power cable, User manual	Glass cuvette 10mm×4, Fuse×2, Power cable, User manual, Software, USB cable

BNVIS-S160 / BNVIS-S170

Single Beam Visible spectrophotometer



Features

- Photometric measurement: one key switch A/T/E
- Quantitative measurement: establish standard curve
- File management: data preservation, editable file name
- Performance verification: verifiable performance specifications
- System application: Multilingual operating system
- Dismountable lamp room cover, can change lamp easily
- Data can be export from the U disk with .CSV and .TXT format
- Support general printer with A4 paper printing
- The front baffle of the sample room can be dismantled freely
- Special leak hole in the sample room
- Antirust treatment cell holder

Specifications

Model	BNVIS-S160	BNVIS-S170
Optical system	Single beam, 1200 l/mm grating	
Wavelength range	320-1050 nm	
Spectral bandwidth	4 nm	2 nm
Wavelength accuracy	±0.8 nm	
Wavelength repeatability	≤0.4 nm	
Wavelength resolution	0.1 nm	
Wavelength gyration speed	10000 nm/min	
Photometric range	-0.3-3 A, 0-200 %T, 0-9999.9 C	
Photometric accuracy	±0.003A (0-0.5 A) , ±0.006 A (0.5-1 A) , ±0.5 %T (0-100 %T)	
Photometric repeatability	±0.0015 A (0-0.5 A) , ±0.003 A (0.5-1 A) , ±0.2 %T (0-100 %T)	
Photometric Noise	≤0.0005 A @ 0 A, 500 nm, ≤0.001 A @ 1 A, 500 nm, ≤0.002 A @ 2 A, 500 nm	
Photometric Stability	≤0.002A/hr (500nm, 2 hours after preheating)	
Stray light	≤0.2 %T (360 nm)	
Function	Photometric, Quantitation, File management, system management, Performance vertification	
Light source	Tungsten lamp	
Detector	Silicon photodiode	
Standard Sample holder	10 mm 4-cell manual holder	
Display	5 inch TFT color touch screen	
Storage	236 KB (built-in), supports unlimited external expansion (USB memory)	
Interface	RS232 serial port × 1 (printer), USB-A × 1 (USB memory/USB printer), USB-B × 1 (computer)	
PC software	Optional	
Language	6 Languages, Can Be Switched (English, German. French, Spanish, Portuguese. Simplified Chinese)	
Power supply	100-240 V AC, 50/60 Hz, 75W	
Size	456 (W) ×360 (D) ×185 (H) mm	
Weight	10.5 kg	

BNVIS-S180 / BNVIS-S190

Single Beam Visible spectrophotometer



Features

- The excellent optical and electric system
- Low noise and Low stray light
- Large LCD display (128*64 Dots), can display curve
- High quality grating, detector and lamps
- Data and Curve can be stored in real-time
- Auto setting WL, auto Blank
- Lamps can be turned on/off individually
- Easy to change Pri-aligned lamps
- Reinforced baseboard and bracket assures durability

Specifications

Model	BNVIS-S180	BNVIS-S190
Wavelength Range	320-1100nm	
Spectral Bandwidth	4nm	2nm
Optical System	Single Beam, Blazed Holographic Grating (1200 lines/mm)	
Wavelength Accuracy	±0.5nm	
Wavelength Repeatability	≤0.3nm	
Wavelength Setting	Auto, Resolution 0.1 nm	
Photometric Range	0-200% T, -0.3-3A, 0-9999C	
Photometric Accuracy	±0.002A (0-0.5A), ±0.004A (0. 5-1A), ±0.3%T (0-100% T)	
Photometric Repeatability	≤0.001A (0-0.5A), ≤0.002A (0. 5-1A), ≤0.2% T (0-100% T)	
Stray Light	≤0.05 % T(220/360nm)	
Scan Speed	High, Medium, Low. Max. 2000nm/minute (This function is only for with PC Scanning Software)	
Baseline Flatness	±0.003A	
Stability	±0.001A/h (500nm,OA)	
Noise	≤0.2%T/3min (250/500nm,0% T); ≤0.5% T/3min (250/500nm, 100% T)	
Measuring function	Photometric: T%, Abs; Quantitative: Double WL Standard Curve System Utility;	
Sample Compartment	Accommodate 5-100mm Path length Cuvette	
Detector	Silicon Photodiode	
Lamps	Tungsten Lamp & Deuterium Lamp (Pre-aligned)	
Display	Graphic LCD (128x64 Dots)	
Keypad	22-key Numeric Membrance Keypad	
Output Interface	USB Port & RS232 Port	
Printer	Mini Serial Printer; PC Printer	
PC Software	Optional PC Scanning Software	
Power Requirement	AC90-250V, 50/60Hz	
Dimensions(WxDxH)	490x390x280mm	
Weight	16kg	

BNVIS-S200

Single Beam Scanning Visible spectrophotometer



Features

- Automatic wavelength settings
- Sample compartment for 5-100mm cuvettes
- Precise automatic T/A changeover
- Automatic zero and full scale adjustment
- 7-inch multi color touch-screen
- Equipped with USB port
- Internal printer optional
- Software optional
- Direct concentration read-out and concentration factor setting function

Specification

Model	BNVIS-S200
Optical system	Single Beam, Grating 1200 lines/mm
Wavelength Range	325-1100nm
Spectrum Bandwidth	4nm
Wavelength Accuracy	±1nm
Wavelength Repeatability	≤0.5nm
Photometric Range	0.0-200.0%T -0.301-4.000A 0.000-9999C
Photometric Accuracy	±0.5%T
Photometric Repeatability	≤0.2%T
Scanning Speed	Fast-Medium-Slow
Baseline	≤±0.003A (335-1090nm)
Stray Light	≤0.1%T(at 360nm NaNo2)
Noise	100% (T) noise≤0.5%(T) . 0% (T) noise≤0.2%(T)
Drifting	±0.002 Abs/30min(at 500nm after 2h warm up)
Display	7-inch color touch-screen
Measuring function	Photometry, Spectrum, wavelength scanning, Quantitative, kinetic analysis , Multi wavelength measurement
Monochromator Type	Czerny-Turner
Focal Length	160mm
Detector	Silicon Photocell
Light source	Tungsten lamp
Wavelength Setting	Auto
Standard cell Holder	4 position 10mm cell holder
Sample compartment	10mm pathlength cuvette
Output Interface	USB port
PC software	Optional
Power	AC220V 50Hz 100W
Packaging Size	630mm X535mm X 405mm
G.W.	21kg
Standard Accessories	Glass cuvette 10mm×4, Fuse×2, Power cable, User manual

BNVIS-S210 / BNVIS-S220

Single Beam Scanning Visible spectrophotometer



Features

- Photometric measurement: one key switch A/T/E
- Quantitative measurement: establish standard curve
- File management: data preservation, editable file name
- Performance verification: verifiable performance specifications
- System application: Multilingual operating system
- Dismountable lamp room cover, can change lamp easily
- Data can be export from the U disk with .CSV and .TXT format
- Support general printer with A4 paper printing
- The front baffle of the sample room can be dismantled freely
- Special leak hole in the sample room
- Antirust treatment cell holder

Specification

Model	BNVIS-S210	BNVIS-S220
Optical system	Single beam, 1200 l/mm grating	
Wavelength range	315-1100 nm	
Spectral bandwidth	4 nm	2 nm
Wavelength accuracy	±0.5 nm	
Wavelength repeatability	≤0.2 nm	
Wavelength resolution	0.1 nm	
Wavelength swing speed	6000 nm/s	
Wavelength scanning speed	25~4200 nm/s	
Photometric range	-0.3-3 A, 0-200 %T, 0-9999.9 C	
Photometric accuracy	±0.002A (0-0.5 A) , ±0.004 A (0.5-1 A) , ±0.5 %T (0-100 %T)	
Photometric repeatability	±0.001 A (0-0.5 A) , ±0.002 A (0.5-1 A) , ±0.2 %T (0-100 %T)	
Photometric Noise	≤0.0005 A @ 0 A, 500 nm, ≤0.001 A @ 1 A, 500 nm, ≤0.002 A @ 2 A, 500 nm	
Photometric Stability	≤0.002A/hr (500nm, 2 hours after preheating)	
Stray light	≤0.05 %T (360 nm)	
Baseline	±0.002A	
Function	Photometric, Quantitation, Spectrum, File management, system management, Performance vertification	
Light source	Tungsten lamp	
Detector	Silicon photodiode	
Standard Sample holder	10 mm 4-cell manual holder	
Display	5 inch TFT color touch screen	
Storage	236 KB (built-in), supports unlimited external expansion (USB memory)	
Interface	RS232 serial port × 1 (printer), USB-A × 1 (USB memory/USB printer), USB-B × 1 (computer)	
PC software	Optional	
Language	6 Languages, Can Be Switched (English, German. French, Spanish, Portuguese. Simplified Chinese)	
Power supply	100-240 V AC, 50/60 Hz, 75W	
Size	456 (W) ×360 (D) ×185 (H) mm	
Weight	10.5 kg	

BNVIS-R300 / BNVIS-R310

Split Beam Visible spectrophotometer



Features

- Split beam optical system
- 8-inch multi color touch-screen
- Automatic zero and full scale adjustment
- Thermal printer optional
- Automatic wavelength settings
- automatic 8 position cuvette holder
- Equipped with USB port
- Software optional

Specification

Model	BNVIS-R310	BNVIS-R300
Photometry	Split Beam, Grating 1200 lines/mm	
Wavelength Range	325-1100nm	
Spectrum Bandwidth	2nm	
Wavelength Accuracy	±0.5nm	
Wavelength Repeatability	≤0.2nm	
Photometric Range	0.0-200.0%T	
	-0.301-4.000A	
	0.000-9999C	
Photometric Accuracy	±0.5%T	
Photometric Repeatability	≤0.2%T	
Scanning Speed	Fast-Medium-Slow	NO
Baseline	≤±0.002A (335-1090nm)	NO
Stray Light	≤0.05%T(at 360nm NaNo2)	
Noise	100% (T) noise≤0.2%(T) 0% (T) noise≤0.1%(T)	
Drifting	±0.0009 Abs/30min (at 500nm after 2h warm up)	
Display	8-inch color touch-screen	
Measuring function	Full-spectrum scanning,Detailed spectrum scanning,Time-based kinetics determination,GOTO	
Monochromator Type	Czerny-Turner	
Focal Length	160mm	
Detector	Silicon Photocell	
Wavelength Setting	Auto	
Light Source	Tungsten lamp	
Standard cell Holder	8 position 10mm cell holder	
Sample compartment	10mm pathlength cuvette	
Output Interface	USB port	
PC software	Optional	
Power	AC220V 50Hz 120W	
Packaging Size	710mm X 590mm X 505mm	
G.W.	40kg	
Standard Accessories	Glass cuvette 10mm×4, Fuse×2, Power cable, User manual	

BNVIS-R320

Split Beam Visible spectrophotometer



Features

- Split beam ratio monitoring optical system
- Low noise and Low stray light
- Large LCD display (128*64 Dots), can display curve
- High quality grating, detector and lamps
- Data and Curve can be stored in real-time
- Auto setting WL, auto Blank
- Lamps can be turned on/off individually
- Easy to change Pri-aligned lamps
- Reinforced baseboard and bracket assures durability

Specification

Model	BNVIS-R320
Optical System	Split Beam Ratio Monitoring, Blazed Holographic Grating (1200 lines/mm)
Wavelength Range	320-1100nm
Spectral Bandwidth	2.0nm
Wavelength Accuracy	±0.5nm
Wavelength Repeatability	≤0.2nm
Wavelength Setting	Auto, Resolution 0.1nm
Photometric Range	0-200%T, -0.3 -3A, 0-9999C
Photometric Accuracy	±0.002A (0-0.5A), ±0.003A (0.5-1A), ±0.3%T (0-100%T)
Photometric Repeatability	≤0.001A (0-0.5A), ≤0.002A (0.5-1A), ≤0.2%T (0-100%T)
Stray Light	≤0.05%T(220/360nm)
Scan Speed	High, Medium, Low. Max.2000nm/minute (This function is only for with PC Scanning Software)
Baseline Flatness	±0.002A
Stability	±0.002A/h (500nm,0A)
Noise	≤0.2%T/3min (250/500nm,0%T); ≤0.5%T/3min (250/500nm,100%T)
Measuring function	Photometric: T%, Abs; Quantitative: Standard Curve; System Utility;
Sample Compartment	Accommodate 5-100mm Pathlength Cuvette
Detector	Silicon Photodiode
Lamps	Tungsten Lamp & Deuterium Lamp (Pre-aligned)
Display	Graphic LCD (128x64 Dots)
Keypad	22-key Numeric Membrance Keypad
Output Interface	USB Port & RS232 Port
Printer	Mini Serial Printer; PC Printer
PC Software	Optional PC Scanning Software
Power Requirements	AC 90-250V，50/60Hz
Dimension	490x390x280mm
Weight	16kg

BNVIS-R330

Split Beam Visible spectrophotometer



Features

- Excellent optical system ensure low noise and Low stray light
- High speed MCU, high precision AD, large storage capacity
- Large LCD display (320*240 Dots)
- High quality grating, detector and lamps
- Data and Curve can be stored in real-time
- Auto setting WL, auto Blank
- Lamps can be turned on/off individually
- Easy to change Pri-aligned lamps
- Reinforced baseboard and bracket assures durability

Specification

Model	BNVIS-R330
Optical System	Split Beam, Blazed Holographic Grating (1200 lines/mm)
Wavelength Range	320-1100nm
Spectral Bandwidth	1.8nm
Wavelength Accuracy	±0.5nm
Wavelength Repeatability	≤0.2nm
Wavelength Setting	Auto, Resolution 0.1nm
Photometric Range	0-200%T, -0.3 -3A, 0-9999C
Photometric Accuracy	±0.002A (0-0.5A), ±0.003A (0.5-1A), ±0.3%T (0-100%T)
Photometric Repeatability	≤0.001A (0-0.5A), ≤0.002A (0.5-1A), ≤0.2%T (0-100%T)
Stray Light	≤0.05%T(220/360nm)
Scan Speed	High, Medium, Low. Max.3000nm/minute
Baseline Flatness	±0.002A
Stability	±0.002A/h (500nm,0A)
Noise	≤0.2%T/3min (250/500nm,0%T); ≤0.5%T/3min (250/500nm,100%T)
Measuring function	Photometric: T%, Abs; Quantitative: Standard Curve; WL Scan (Spectrum Scan); Time Scan (Kinetics); DNA/Protein Test; Multi-WL Test; System Utility
Sample Compartment	Accommodate 5-100mm Pathlength Cuvette
Detector	Silicon Photodiode
Lamps	Tungsten Lamp & Deuterium Lamp (Pre-aligned)
Display	Graphic LCD (320x240 Dots)
Keypad	30-key Alphanumeric Membrance Keypad
Output Interface	USB Port & RS232 Port
Printer	Mini Serial Printer; PC Printer
PC Software	Optional PC Scanning Software
Power Requirements	AC 90-250V，50/60Hz
Dimension	545x468x245mm
Weight	18kg

UV-VIS SPECTROPHOTOMETER



BNUV-S500

Single Beam UV Visible spectrophotometer



Features

- Sample compartment for 5-50mm cuvettes
- Precise automatic T/A changeover
- Automatic zero and full scale adjustment
- Direct concentration read-out and concentration factor setting function
- Equipped with RS232 port & USB port

Specification

Model	BNUV-S500
Optical system	Single Beam, Grating 1200 lines/mm
Wavelength Range	200-1000nm
Spectrum Bandwidth	4nm
Wavelength Accuracy	±2nm
Wavelength Repeatability	≤1nm
Stray Light	≤0.1%T(at 220nm NaI,360nm NaNo2)
Photometric Range	0-100.0%T 0-1.999A 0-1999C
Photometric Accuracy	±0.5%T
Photometric Repeatability	≤0.2%T
Noise	100% (T) noise≤0.3%(T)， 0% (T) noise≤0.2%(T)
Focal Length	160mm
Display	Backlit LCD
Photometric model	T.A
Monochromator Type	Czerny-Turner
Detector	Silicon Photocell
Light source	Tungsten lamp and deuterium lamp
Wavelength Setting	Manual Turn Knob
Standard cell Holder	4 position 10mm cell holder
Sample compartment	10mm pathlength cuvette
Output Interface	RS232 port & USB port
PC software	Optional
Power	AC220V 50Hz 80W
Packaging Size	575X460X340mm
G.W.	16.5kg
Standard Accessories	Glass cuvette 10mm×4, Quartz cuvette 10mm×2,Fuse×2, Power cable, User manual

BNUV-S510

Single Beam UV Visible spectrophotometer



Feature

- Single beam
- 4.3 inch touch screen.
- Printer interface

Specification

Model	BNUV-S510
Optical system	Single Beam, holographic grating 1200 lines/mm
Wavelength Range	200-1000 nm
Spectral Bandwidth	4 nm
Wavelength Accuracy	±2.0 nm
Wavelength Repeatability	1.0 nm
Photometric Range	0 ~ 200%T, -0.301 ~ 3.000Abs, -9999 ~ 9999C, -9999 ~ 9999F
Transmittance Accuracy	±0.5 %T
Transmittance Repeatability	0.2 %T
Stray Light	0.5 %T(at 220nm and 360nm)
Baseline Drift	≤0.002 Abs / half hour (after warm-up at 500 nm)
Display Screen	4.3 inch color touch-screen display, LCD
Photometric model	T.A.C
Monochromator	C-T monochromator
Sensor	silicon photocell
Wavelength Calibration	automatic calibration after starting up
Wavelength Resolution	0.1 nm
Light Source	deuterium lamp (1000h), tungsten lamp (2000h, 20W/12V)
Light Switching Point	can be set, 294 nm - 365 nm
Output Interface	USB interface
Sample Holder	4 trench 50mm adjustable sample holder (10mm, 20mm, 30mm, 40mm, 50mm, position-adjustable)
Sample compartment	10mm pathlength cuvette
PC software	NO
Power	220V 50Hz 90VA / 110V 60Hz 90VA
Overall Dimension	470×380×225mm (L*W*H)
Package Dimension	650×539×370mm (L*W*H)
Net Weight	10.5 Kg
Gross Weight	14.5 Kg
Standard Accessories	Glass cuvette 10mm×4,Quartz Cuvette 10mm×2, Fuse×2, Power cable, User manual

BNUV-S520

Single Beam UV Visible spectrophotometer



Features

- Small fine design, space saving
- The excellent optical and electric system
- Low noise and Low stray light
- Large LCD display (128*64 Dots), can display curve
- High quality grating, detector and lamps
- Data and Curve can be stored in real-time
- Auto setting WL, auto Blank
- Easy to change Pri-aligned lamps
- Reinforced baseboard and bracket assures durability

Specification

Model	BNUV-S520
Optical System	Single Beam, Blazed Holographic Grating (1200 lines/mm)
Wavelength Range	190-1100nm
Spectral Bandwidth	4.0nm
Wavelength Accuracy	±1.0nm
Wavelength Repeatability	≤0.3nm
Wavelength Setting	Auto, Resolution 0.1nm
Photometric Range	0-200%T, -0.3 -3A, 0-9999C
Photometric Accuracy	±0.003A (0-0.5A), ±0.005A (0.5-1A), ±0.5%T (0-100%T)
Photometric Repeatability	≤0.002A (0-0.5A), ≤0.003A (0.5-1A), ≤0.3%T (0-100%T)
Stray Light	≤0.2%T(220/360nm)
Scan Speed	High, Medium, Low. Max.1000nm/minute (This function is only for with PC Scanning Software)
Baseline Flatness	±0.004A
Stability	±0.002A/h (500nm,0A)
Noise	≤0.2%T/3min (250/500nm,0%T); ≤0.5%T/3min (250/500nm,100%T)
Measuring function	Photometric: T%, Abs; Quantitative: Standard Curve; System Utility;
Sample Compartment	Accommodate 5-100mm Pathlength Cuvette
Detector	Silicon Photodiode
Lamps	Tungsten Lamp & Deuterium Lamp (Pre-aligned)
Display	Graphic LCD (128x64 Dots)
Keypad	11-key Membrance Keypad
Output Interface	USB Port & RS232 Port
Printer	Mini Serial Printer; PC Printer
PC Software	Optional PC Scanning Software
Power Requirements	AC 90-250V，50/60Hz
Dimension	431x318x195mm
Weight	16kg

BNUV-S530 / BNUV-S540

Single Beam UV Visible spectrophotometer



Features

- The excellent optical and electric system
- Low noise and Low stray light
- Large LCD display (128*64 Dots), can display curve
- High quality grating, detector and lamps
- Data and Curve can be stored in real-time
- Auto setting WL, auto Blank
- Lamps can be turned on/off individually
- Easy to change Pri-aligned lamps
- Reinforced baseboard and bracket assures durability

Specification

Model	BNUV-S530	BNUV-S540
Optical System	Single Beam, Blazed Holographic Grating (1200 lines/mm)	
Wavelength Range	190-1100nm	
Spectral Bandwidth	4.0nm	2.0nm
Wavelength Accuracy	±0.8nm	
Wavelength Repeatability	≤0.3nm	
Wavelength Setting	Auto, Resolution 0.1nm	
Photometric Range	0-200%T, -0.3-3A, 0-9999C	
Photometric Accuracy	±0.002A (0-0.5A), ±0.004A (0.5-1A), ±0.5%T (0-100%T)	
Photometric Repeatability	≤0.001A (0-0.5A), ≤0.002A (0.5-1A), ≤0.2%T (0-100%T)	
Stray Light	≤0.1%T(220/360nm)	
Scan Speed	High, Medium, Low. Max.2000nm/minute (This function is only for with PC Scanning Software)	
Baseline Flatness	±0.003A	
Stability	±0.002A/h (500nm,0A)	
Noise	≤0.2%T/3min (250/500nm,0%T); ≤0.5%T/3min (250/500nm,100%T)	
Measuring function	Photometric: T%, Abs；Quantitative: Standard Curve；System Utility	
Sample Compartment	Accommodate 5-100mm Pathlength Cuvette	
Detector	Silicon Photodiode	
Lamps	Tungsten Lamp & Deuterium Lamp (Pre-aligned)	
Display	Graphic LCD (128x64 Dots)	
Keypad	22-key Numeric Membrance Keypad	
Output interface	USB Port & RS232 Port	
Printer	Mini Serial Printer; PC Printer	
PC Software	Optional PC Scanning Software	
Power Requirements	AC 90-250V，50/60Hz	
Dimension	490x390x280mm	
Weight	18kg	

BNUV-S550

Single Beam UV Visible spectrophotometer



Feature

- Automatic wavelength settings
- Sample compartment for 5-100mm cuvettes
- Precise automatic T/A changeover
- Automatic zero and full scale adjustment
- 7-inch multi color touch-screen
- Equipped with USB port
- Internal printer optional
- Software optional
  Direct concentration read-out and concentration factor setting function

Specification

Model	BNUV-S550
Optical system	Single Beam, Grating 1200 lines/mm
Wavelength Range	190-1100nm
Spectrum Bandwidth	2nm
Wavelength Accuracy	±1nm
Wavelength Repeatability	≤0.5nm
Photometric Range	0.0-200.0%T -0.301-4.000A 0.000-9999C
Photometric Accuracy	±0.3%T ±0.002Abs (0-0.5A) ±0.004 Abs (0.5-1A)
Photometric Repeatability	≤0.15%T 0.001 Abs (0-0.5A) 0.002 Abs (0.5-1A)
Stray Light	≤0.1%T(at 220nm NaI,360nm NaNo2)
Noise	100% (T) noise≤0.5%(T) , 0% (T) noise≤0.2%(T)
Drifting	±0.002 Abs/30min(at 250nm and 500nm after 2h warm up)
Display	7-inch color touch-screen
Measuring function	Photometry, Spectrum, wavelength scanning, Quantitative, kinetic analysis , Multi wavelength measurement
Monochromator Type	Czerny-Turner
Focal Length	160mm
Detector	Silicon Photocell
Light source	Tungsten lamp and Deuterium lamp
Wavelength Setting	Auto
Standard cell Holder	4 position 10mm cell holder
Sample compartment	10mm pathlength cuvette
Output Interface	USB port
PC software	Optional
Power	AC220V 50Hz 100W
Packaging Size	630mm X535mm X 405mm
G.W.	21kg
Standard Accessories	Glass cuvette 10mm×4, Quartz cuvette 10mm×2,Fuse×2, Power cable, User manual

BNUV-S560 / BNUV-S570

Single Beam UV Visible spectrophotometer



Features

- Photometric measurement: one key switch A/T/E
- Quantitative measurement: establish standard curve
- File management: data preservation, editable file name
- Performance verification: verifiable performance specifications
- System application: Multilingual operating system
- Dismountable lamp room cover, can change lamp easily
- Data can be export from the U disk with .CSV and .TXT format
- Support general printer with A4 paper printing
- The front baffle of the sample room can be dismantled freely
- Special leak hole in the sample room
- Antirust treatment cell holder.

Specification

Model	BNUV-S560	BNUV-S570
Optical system	Single beam, 1200 l/mm grating	
Wavelength range	195-1050 nm	
Spectral bandwidth	4 nm	2 nm
Wavelength accuracy	±0.8 nm	
Wavelength repeatability	≤0.4 nm	
Wavelength resolution	0.1 nm	
Wavelength gyration speed	10000 nm/min	
Photometric range	-0.3-3 A, 0-200 %T, 0-9999.9 C	
Photometric accuracy	±0.003A (0-0.5 A) , ±0.006 A (0.5-1 A) , ±0.5 %T (0-100 %T)	
Photometric repeatability	±0.0015 A (0-0.5 A) , ±0.003 A (0.5-1 A) , ±0.2 %T (0-100 %T)	
Photometric Noise	≤0.0005 A @ 0 A, 500 nm, ≤0.001 A @ 1 A, 500 nm, ≤0.002 A @ 2 A, 500 nm	
Photometric Stability	≤0.002A/hr (500nm, 2 hours after preheating)	
Stray light	≤0.2 %T (360 nm)	
Function	Photometric, Quantitation, File management, system management, Performance vertification	
Light source	Tungsten lamp, Deuterium lamp	
Detector	Silicon photodiode	
Standard Sample holder	10 mm 4-cell manual holder	
Display	5 inch TFT color touch screen	
Storage	236 KB (built-in), supports unlimited external expansion (USB memory)	
Interface	RS232 serial port × 1 (printer), USB-A × 1 (USB memory/USB printer), USB-B × 1 (computer)	
PC software	Optional	
Language	6 Languages, Can Be Switched (English, German, French, Spanish, Portuguese, Simplified Chinese)	
Power supply	100-240 V AC, 50/60 Hz, 75W	
Size	456 (W) ×360 (D) ×185 (H) mm	
Weight	10.7 kg	

BNUV-S600 / BNUV-S610 / BNUV-S620

Single Beam Scanning UV Visible spectrophotometer



Features

- 7 inches TFT color screen and windows graphic interface
- Powerful functions like Photometric measurement, Quantitative measurement, Kinetics, Spectrum scan,
- DNA\Protein test, multi-wavelength test, etc
  In-house massive memory is capable of saving up to 1024M for test data & working curves
- Supports USB storage. The USB port can be used for data transfer, which is easily exported to Excel for further processing, analysis and storage
- Socket type deuterium and tungsten lamp can make lamps switching without optics debugging and easy to be replaced
- Large sample chamber can accommodate 5-100mm cuvettes of all kinds
- Extensive accessories are optional, such as auto 8-cell holder, film holder, tube rack, peltier/sipper system, 21 CFR compliant software, etc

Specification

Model	BNUV-S600	BNUV-S610	BNUV-S620
Optical System	Single Beam, Grating 1200 lines/mm		
Wavelength Range	190 nm-1100nm		
Spectral Bandwidth	2nm	1nm	0.5/1/2/4/5nm
Wavelength Accuracy	±0.1nm@656.1nm, ±0.3nm@all		
Wavelength Repeatability	≤0.1nm		
Photometric Accuracy	0.2%T(0-100%T), ±0.002A(0-0.5A), ±0.004A(0.5-1A)		
Photometric Repeatability	≤0.15%T(0-100%T), 0.001A(0-0.5A), 0.002A(0.5-1A)		
Photometric Range	0-200%T, -0.3-3A, 0-9999C		
Stray Light	≤0.03%T@220nm, 360nm		
Stability	±0.0005A/h@500nm		
Baseline Flatness	±0.002A	±0.001A	
Noise	0.0005A@500nm		
Photometric model	T, A, C, E		
Scanning Speed	Hi, Med, Low (Max 3000nm/min)		
Wavelength Setting	Auto		
Display	7" TFT Color Screen		
Light Source	Deuterium & Tungsten lamp		
Detector	Silicon Photodiode		
Standard cell Holder	10mm manual 4-cell holder		
Sample compartment	10mm pathlength cuvette		
Output Interface	USB drive, USB host, RS232		
PC software	YES		
Power	AC 220V/50Hz or AC 110V/60Hz		
Package Dimension	810×660×390mm		
Gross Weight	27kg		
Standard Accessaries	10mm glass cuvette x 4, 10mm quartz cuvette x 2, Power cord, User's Manual, PC software		

BNUV-S630

Single Beam Scanning UV Visible spectrophotometer



Features

- Automatic wavelength settings
- Sample compartment for 5-100mm cuvettes
- Precise automatic T/A changeover
- Automatic zero and full scale adjustment
- 7-inch multi color touch-screen
- Equipped with USB port
- Internal printer optional
- Software optional
- Direct concentration read-out and concentration factor setting function

Specification

Model	BNUV-S630
Optical system	Single Beam, Grating 1200 lines/mm
Wavelength Range	190-1100nm
Spectrum Bandwidth	2nm
Wavelength Accuracy	±1nm
Wavelength Repeatability	≤0.5nm
Photometric Range	0.0-200.0%T -0.301-4.000A 0.000-9999C
Photometric Accuracy	±0.3%T ±0.002Abs (0-0.5A) ±0.004 Abs (0.5-1A)
Photometric Repeatability	≤0.15%T 0.001 Abs (0-0.5A) 0.002 Abs (0.5-1A)
Scanning Speed	Fast-Medium-Slow
Baseline	≤±0.003A（200-1090nm）
Stray Light	≤0.1%T(at 220nm NaI,360nm NaNo2)
Noise	100%（T）noise≤0.5%(T)， 0%（T）noise≤0.2%(T)
Drifting	±0.002 Abs/30min(at 250nm and 500nm after 2h warm up)
Display	7-inch color touch-screen
Measuring function	Photometry, Spectrum, wavelength scanning, Quantitative, kinetic analysis , Multi wavelength
Monochromator Type	Czerny-Turner
Focal Length	160mm
Detector	Silicon Photocell
Light source	Tungsten lamp and Deuterium lamp
Wavelength Setting	Auto
Standard cell Holder	4 position 10mm cell holder
Sample compartment	10mm pathlength cuvette
Output Interface	USB port
PC software	Optional
Power	AC220V 50Hz 180W
Packaging Size	630×535×405mm
G.W.	21kg
Standard Accessories	Glass cuvette 10mm×4, Quartz cuvette 10mm×2, Fuse×2, Power cable, User manual

BNUV-S640 / BNUV-S650

Single Beam Scanning UV Visible spectrophotometer



Features

- Photometric measurement: one key switch A/T/E
- Quantitative measurement: establish standard curve
- File management: data preservation, editable file name
- Performance verification: verifiable performance specifications
- System application: Multilingual operating system
- Dismountable lamp room cover, can change lamp easily
- Data can be export from the U disk with .CSV and .TXT format
- Support general printer with A4 paper printing
- The front baffle of the sample room can be dismantled freely
- Special leak hole in the sample room
- Antirust treatment cell holder

Specification

Model	BNUV-S640	BNUV-S650
Optical system	Single beam, 1200 l/mm grating	
Wavelength range	190-1100 nm	
Spectral bandwidth	4 nm	2 nm
Wavelength accuracy	±0.5 nm	
Wavelength repeatability	≤0.2 nm	
Wavelength resolution	0.1 nm	
Wavelength swing speed	6000 nm/s	
Wavelength scanning speed	25~4200 nm/s	
Photometric range	-0.3-3 A, 0-200 %T, 0-9999.9 C	
Photometric accuracy	±0.002A (0-0.5 A) , ±0.004 A (0.5-1 A) , ±0.5 %T (0-100 %T)	
Photometric repeatability	±0.001 A (0-0.5 A) , ±0.002 A (0.5-1 A) , ±0.2 %T (0-100 %T)	
Photometric Noise	≤0.0005 A @ 0 A, 500 nm, ≤0.001 A @ 1 A, 500 nm, ≤0.002 A @ 2 A, 500 nm	
Photometric Stability	≤0.002A/hr (500nm, 2 hours after preheating)	
Stray light	≤0.05 %T (220 nm, 360 nm)	
Baseline	±0.002A	
Function	Photometric, Quantitation, Spectrum, File management, system management, Performance vertification	
Light source	Tungsten lamp, Deuterium lamp	
Detector	Silicon photodiode	
Standard Sample holder	10 mm 4-cell manual holder	
Display	5 inch TFT color touch screen	
Storage	236 KB (built-in), supports unlimited external expansion (USB memory)	
Interface	RS232 serial port × 1 (printer), USB-A × 1 (USB memory/USB printer), USB-B × 1 (computer)	
PC software	Optional	
Language	6 Languages, Can Be Switched (English, German. French, Spanish, Portuguese. Simplified Chinese)	
Power supply	AC 100-240 V, 50/60 Hz, 120W	
Size	456 (W) ×360 (D) ×185 (H) mm	
Weight	10.7 kg	

BNUV-R700 / BNUV-R710

Split Beam UV Visible Spectrophotometer



Features

- Split beam optical system
- 8-inch multi color touch-screen
- Automatic zero and full scale adjustment
- Automatic wavelength settings
- Automatic 8 position cuvette holder
- Equipped with USB port
- Thermal plotter optional

Specification

Model	BNUV-R710	BNUV-R700
Photometry	Split Beam, Grating 1200 lines/mm	
Wavelength Range	190-1100nm	
Spectrum Bandwidth	2nm	
Wavelength Accuracy	±0.5nm	
Wavelength Repeatability	≤0.2nm	
Photometric Range	0.0-200.0%T -0.301-4.000A 0.000-9999C	
Photometric Accuracy	±0.3%T ±0.002Abs (0-0.5A) ±0.004 Abs (0.5-1A)	
Photometric Repeatability	≤0.15%T 0.001 Abs (0-0.5A) 0.002 Abs (0.5-1A)	
Scanning Speed	Fast-Medium-Slow	NO
Baseline	≤±0.002A (200-1090nm)	NO
Stray Light	≤0.03%T (at 220nm NaI, 360nm NaNo2)	≤0.05%T (at 220nm NaI, 360nm NaNo2)
Noise	100% (T) noise≤0.15%(T) , 0% (T) noise≤0.1%(T)	
Drifting	±0.0009 Abs/30min (at 250nm and 500nm after 2h warm up)	
Display	8-inch color touch-screen	
Measuring function	Full-spectrum scanning, Linear regression, Detailed spectrum scanning, Concentration direct	
Monochromator Type	Czerny-Turner	
Focal Length	160mm	
Detector	Silicon Photocell	
Wavelength Setting	Auto	
Light Source	Tungsten lamp, Deuterium lamp	
Standard cell Holder	8 position 10mm cell holder	
Sample compartment	10mm pathlength cuvette	
Output Interface	USB port	
PC software	Optional	
Power	AC220V 50Hz 200W	
Packaging Size	710×590×505mm	
G.W.	40kg	
Standard Accessories	Glass cuvette 10mm×4, Quartz cuvette 10mm×2,Fuse×2, Power cable, User manual	

BNUV-R720

Split Beam UV Visible Spectrophotometer



Features

- Split beam ratio monitoring optical system
- Low noise and Low stray light
- Large LCD display (128*64 Dots), can display curve
- High quality grating, detector and lamps
- Data and Curve can be stored in real-time
- Auto setting WL, auto Blank
- Lamps can be turned on/off individually
- Easy to change Pri-aligned lamps
- Reinforced baseboard and bracket assures durability

Model	BNUV-R720
Optical System	Split Beam Ratio Monitoring, Blazed Holographic Grating (1200 lines/mm)
Wavelength Range	190-1100nm
Spectral Bandwidth	2.0nm
Wavelength Accuracy	±0.5nm
Wavelength Repeatability	≤0.2nm
Wavelength Setting	Auto, Resolution 0.1nm
Photometric Range	0-200%T, -0.3-3A, 0-9999C
Photometric Accuracy	±0.002A (0-0.5A), ±0.003A (0.5-1A), ±0.3%T (0-100%T)
Photometric Repeatability	≤0.001A (0-0.5A), ≤0.002A (0.5-1A), ≤0.2%T (0-100%T)
Stray Light	≤0.05%T(220/360nm)
Scan Speed	High, Medium, Low. Max.2000nm/minute (This function is only for with PC Scanning Software)
Baseline Flatness	±0.002A
Stability	±0.002A/h (500nm,0A)
Noise	≤0.2%T/3min (250/500nm,0%T); ≤0.5%T/3min (250/500nm,100%T)
Measuring function	Photometric: T%, Abs, Quantitative: Standard Curve,System Utility
Sample Compartment	Accommodate 5-100mm Pathlength Cuvette
Detector	Silicon Photodiode
Lamps	Tungsten Lamp & Deuterium Lamp (Pre-aligned)
Display	Graphic LCD (128x64 Dots)
Keypad	22-key Numeric Membrance Keypad
Output Port	USB Port & RS232 Port
Printer	Mini Serial Printer; PC Printer
PC Software	Optional PC Scanning Software
Power Requirements	AC 90-250V，50/60Hz
Dimension	490x390x280mm
Weight	18kg

BNUV-R730

Split Beam UV Visible Spectrophotometer



Features

- Excellent optical system ensure low noise and Low stray
- light
- High speed MCU, high precision AD, large storage
- capacity
- Large LCD display (320*240 Dots)
- High quality grating, detector and lamps
- Data and Curve can be stored in real-time
- Auto setting WL, auto Blank
- Lamps can be turned on/off individually
- Easy to change Pri-aligned lamps
- Reinforced baseboard and bracket assures durability

Specification

Model	BNUV-R730
Optical System	Split Beam, Blazed Holographic Grating (1200 lines/mm)
Wavelength Range	190-1100nm
Spectral Bandwidth	1.8nm
Wavelength Accuracy	±0.5nm
Wavelength Repeatability	≤0.2nm
Wavelength Setting	Auto, Resolution 0.1nm
Photometric Range	0-200%T, -0.3-3A, 0-9999C
Photometric Accuracy	±0.002A (0-0.5A), ±0.003A (0.5-1A), ±0.3%T (0-100%T)
Photometric Repeatability	≤0.001A (0-0.5A), ≤0.002A (0.5-1A), ≤0.2%T (0-100%T)
Stray Light	≤0.05%T(220/360nm)
Scan Speed	High, Medium, Low. Max.3000nm/minute
Baseline Flatness	±0.002A
Stability	±0.002A/h (500nm,0A)
Noise	≤0.2%T/3min (250/500nm,0%T); ≤0.5%T/3min (250/500nm,100%T)
Measuring function	Photometric: T%, Abs,Quantitative: Standard Curve,WL Scan (Spectrum Scan),Time Scan (Kinetics),DNA/Protein Test,Multi-WL Test,System Utility
Sample Compartment	Accommodate 5-100mm Pathlength Cuvette
Detector	Silicon Photodiode
Lamps	Tungsten Lamp & Deuterium Lamp (Pre-aligned)
Display	Graphic LCD (320x240 Dots)
Keypad	30-key Alphanumeric Membrance Keypad
Output Port	USB Port & RS232 Port
Printer	Mini Serial Printer; PC Printer
PC Software	Optional PC Scanning Software
Power Requirements	AC 90-250V，50/60Hz
Dimension	545x468x245mm
Weight	20kg

BNUV-R740 / BNUV-R750 / BNUV-R760

Split Beam UV Visible Spectrophotometer



Features

- Split beam ensure low drift, low noise and Low stray light
- High speed MCU, high precision AD, large storage capacity
- Large LCD display (320*240 Dots)
- 1.0nm or variable Bandwidth meet Pharmacopoeia
- Data and Curve can be stored in real-time
- Online software upgrade capability
- Lamps can be turned on/off individually
- Easy to change Pri-aligned lamps
- Reinforced baseboard and bracket assures durability

Specification

Model	BNUV-R740	BNUV-R750	BNUV-R760
Optical System	Split Beam Ratio Monitoring, Blazed Holographic Grating (1200 lines/mm)		
Wavelength Range	190-1100nm		
Spectral Bandwidth	1.8nm	1.0nm	0.5/1/2/4/5nm Variable
Wavelength Accuracy	±0.3nm		
Wavelength Repeatability	≤0.2nm		
Wavelength Setting	Auto, Resolution 0.1nm		
Photometric Range	0-200%T, -0.3-3A, 0-9999C		
Photometric Accuracy	±0.002A (0-0.5A), ±0.003A (0.5-1A), ±0.3%T (0-100%T)		
Photometric Repeatability	≤0.001A (0-0.5A), ≤0.002A (0.5-1A), ≤0.2%T (0-100%T)		
Stray Light	≤0.05%T(220/360nm)		
Scan Speed	High, Medium, Low. Max.2000nm/minute		
Baseline Flatness	±0.0015A		
Stability	±0.002A/h (500nm,0A)		
Noise	≤0.2%T/3min (250/500nm,0%T); ≤0.5%T/3min (250/500nm,100%T)		
Measuring function	Photometric,Quantitative(Standard Curve),WL Scan(Spectrum Scan),Time		
Sample Compartment	Accommodate 5-100mm Pathlength Cuvette		
Detector	Silicon Photodiode		
Lamps	Tungsten Lamp & Deuterium Lamp (Pre-aligned)		
Display	Graphic LCD (128x64 Dots)		
Keypad	30-key Alphanumeric Membrance Keypad		
Output Port	USB Port & RS232 Port		
Printer	Mini Serial Printer; PC Printer		
PC Software	PC Scanning Software		
Power Requirements	AC 90-250V, 50/60Hz		
Dimension	545x468x245mm	545x468x245mm	635x515x255mm
Weight	20kg	20kg	28kg

BNUV-R770 / BNUV-R780

Split Beam UV Visible Spectrophotometer



Features

- Split Double Beam Design
- Bluetooth Wireless Connected Tablet PC with Windows operating system
- 8 inch high resolution capacitive Color Touch Screen
- Optional software followed by GLP/GMP, Data traceable
- Dismountable lamp room cover, can change lamp easily
- The front baffle of the sample room can be dismantled freely
- Special leak hole in the sample room
- Antirust treatment cell holder.

Specification

Model	BNUV-R770	BNUV-R780
Optical system	Split beam, 1200 l/mm grating	
Wavelength range	190-1100 nm	
Spectral bandwidth	1.8 nm	1 nm
Wavelength accuracy	±0.3 nm	
Wavelength repeatability	≤0.2 nm	
Wavelength resolution	0.1 nm	
Wavelength swing speed	10000 nm/min	
Wavelength scanning speed	20 ~ 3200 nm/min	
Photometric range	0 to 400%T, -4 to 4A, 0 to 9999C	
Photometric accuracy	±0.3%T or ±0.004A @ 1A	
Photometric repeatability	±0.001 A (0-0.5 A) , ±0.002 A (0.5-1 A) , ±0.15 %T (0-100 %T)	
Photometric Noise	≤0.0002 A @ 0 A, 500 nm, ≤0.0004 A @ 1 A, 500 nm, ≤0.0008 A @ 2 A, 500 nm	
Photometric Stability	≤0.0005A/h (500nm, 1 hours after preheating)	
Stray light	≤0.05 %T@ 220nm & 360nm	
Baseline Flatness	±0.001A	
Function	Photometry, Multi Wavelength, Kinetics, Time Scanning, Quantitation, Spectrum Scanning, DNA/Protein	
Light source	Tungsten lamp, Deuterium lamp	
Detector	Silicon photodiode	
Standard Sample holder	10 mm 4-cell manual holder	
Display	8" inch TFT color touch screen	
Storage	64GB	
Interface	USB-A × 1 (USB memory/USB printer), USB-B × 1 (computer),Wifi,SD Reader, Bluetooth,HDMI	
PC software	YES	
Language	10 Languages, Can Be Switched (English, German, French, Spanish, Portuguese, Italian, Russian, Simplified Chinese, Japanese, Korean)	
Power supply	AC 100-240 V, 50/60 Hz, 140W	
Size	456 (W) ×360 (D) ×185 (H) mm	
Weight	11 kg	

BNUV-D800 / BNUV-D810 / BNUV-D820

Double Beam Scanning UV Visible Spectrophotometer



BNUV-D800



BNUV-D810 / BNUV-D820

Features

- Double beam optical system
- 8-inch color touch-screen
- Automatic zero and full scale adjustment
- Automatic wavelength settings
- Equipped with USB COM port
- Sophisticated power protection system
- Thermal plotter optional

Specification

Model	BNUV-D800	BNUV-D810	BNUV-D820
Photometry	Double Beam, Grating 1200 lines/mm	Double Beam, Grating 1600 lines/mm	
Wavelength Range	190-1100nm		
Spectrum Bandwidth	1.8nm	1nm	0.5/1/2/4/5nm
			Auto Adjustable
Wavelength Accuracy	±0.5nm	±0.3nm	
Wavelength Repeatability	≤0.2nm	≤0.1nm	
Photometric Range	0.0-200.0%T		
	-0.301-4.000A		
	0.000-9999C		
Photometric Accuracy	±0.3%T		
	±0.002Abs (0-0.5A)		
	±0.004 Abs (0.5-1A)		
Photometric Repeatability	≤0.15%T		
	0.001 Abs (0-0.5A)		
	0.002 Abs (0.5-1A)		
Scanning Speed	Fast-Medium-Slow		
Baseline	≤±0.002A (200-1090nm)	≤±0.0008 A(200-1090nm)	
Stray Light	≤0.03%T(at 220nm NaI, 360nm NaNo2)	≤0.02%T(at 220nm NaI, 360nm NaNo2)	
Noise	100% (T) noise≤0.15%(T) , 0% (T) noise≤0.1%(T)	100% (T) noise≤0.1%(T) , 0% (T) noise≤0.02%(T)	
Drifting	≤0.0009 Abs/30min (250nm and 500nm after 2h warm up)	≤0.004 Abs/h (250nm and 500nm after 2h warm up)	
Display	8-inch color touch-screen		
Measuring function	Full-spectrum scanning, Linear regression, Detailed spectrum scanning, Concentration direct reading, Time-based kinetics determination, Peak / Valley detecting, GOTO λ, Multi-wavelength measurement		
Monochromator Type	Czerny-Turner		
Focal Length	160mm	200mm	
Detector	Silicon Photocell		
Light Source	Tungsten lamp, Deuterium lamp		
Wavelength Setting	Auto		
Standard cell Holder	one position 10mm cell holder	two positions 10mm cell holder	
Sample compartment	10mm pathlength cuvette		
Output Interface	USB port		
PC software	YES		
Power	AC220V 50Hz 200W		
Packaging Size	710×590×505mm	730×630×450mm	
G.W.	36kg	42.5kg	
Standard Accessories	Glass cuvette 10mm×4, Quartz cuvette 10mm×2,Fuse×2, Power cable, User manual		