



NOVEL2S Vis Scanning Spectrophotometer 320-1100nm

Bandwidth 4nm, Manual Cell Holder



Download
Catalogue



NOVEL2S - visible spectrophotometer adopts an advanced proportional dual-beam optical path system, low-noise circuit design, and has excellent reliability and stability. It can meet a wide range of application needs from daily analysis to scientific research.

Main feature:

- Adopting advanced optical, mechanical and electrical design, with high performance and cost performance.
- Using 7-inch color touches LCD, flexible and convenient operation.
- Adopt proportional double-beam optical path structure, and configure high-performance "blaze holographic grating" with low stray light and high-resolution monochromator, with good optical accuracy and measurement accuracy, reproducibility and stability.
- With unique automatic adjustment "0" adjustment "100",
- Automatic 8-hole sample holder.
- It has various advanced functions such as full-band scanning, sub-band scanning, kinetic time scanning, GOTOλ, linear regression, direct concentration reading, peak and valley detection.
- Adopt thermal printer (optional), which can perform data printing, spectral scanning, fixed wavelength time scanning, linear regression and other curves.
- With USB interface, it can directly interact with the PC, strengthen the processing functions of instrument detection data, scanning atlas, etc., realize the mass storage of test documents, and also provide convenience for users' secondary development.
- Advanced power-off protection measures, which can memorize the measured data, scan spectrum, regression equations and instrument correction values, etc., and realize the rapid initialization of the start-up and enter the test state.

Option:

- Thermal printer
- UVwin8 UV spectroscopy software
- Wi-Fi lamp control system



Wi Fi Wi Fi Lamp control

To ensure a longer lifespan of the lamp, with a built-in Wi-Fi control connection, you can turn it on or off separately via your android device or by touch screen - Optional



LCD Touch Screen Digital Display

7 inch capacitive touch screen, to display curve, import test data, setting parameters



Professional Software

Professional Novel 4S Software is a standard configuration



Manual or Automatic Cell Holder

From micro cell to macro cell 100mm large 4 or 8 places manual or automatic cell change control



Human Interface with Help menu

Built in help menu provide shortcut to the important information about main instruments parameter

Type	NOVEL2S
Optical System	Single Beam, Optical grating 1200 lines/mm
Wave Length Range nm	325-1100nm
Monochromator	Czerny-Turner
Focal Lenght	160mm
Spectral Bandwidth nm	4nm
Wavelength Accuracy	±0,5nm
Wavelength Repeatability	≤0,2nm
Photometric Accuracy	±0,5%T(0~100%T), ±0.002A(0-0.5A), ±0.004A(0.5-1A)
Photometric Repeatability	≤0,20%T (0-100%T), 0.001A(0-0.5A), 0.002A(0.5-1A)
Photometric Range	0-200%T, -3~3A, 0-9999C (0-9999F)
Stray Light	<=0,05%T (measured with NaNO2 at 360nm)
Stability	≤±0,0003A/h at 500nm
Baseline Flatness	±0.001A
Noise	0,0005 A at 500nm
Baseline drift	0.0009Abs / 0.5h (after starting 2h, at 500nm)
Wavelength Setting	Auto
Work Mode	T, A, C, E Multi-Function - Photometric, Quantitative, Spectral Scanning, Kinetics, DNA/protein...
Light Source	12V 20V Tungsten-Halogen Lamp
Wavelength scanning speed	fast, medium and slow
Display	7" TFT Color Capacitive Touch Screen
Detector	Photomultiplier tube - PMT
Output	USB/RS232
Power	AC220V ± 22V 50Hz ± 1Hz 120W
Instrument Size	590*475*250mm
Packing Size	880*690*520mm
Gross weight / Net Weight (kg)	18/21
Standard Configuration	Spectrophotometer with Euro plug power cable, 4 pcs glass cuvette, Instruction manual,
Option	Built in printer, COLO professional software, Wi-Fi Lamp Control, Smart Phone



Single hole film holder



Auto 8-cell holder



single hole cell holder-10mm



Manual 4-position film holder



Manual 4-cell holder-100mm



Integrating Sphere



Adjustable XY micro cell holder



Tube rack



Peltier/Sipper system

Optional Accessories:

- Flow cell
- Peltier/Sipper system
- Tube rack
- Adjustable XY micro cell holder
- Integrating Sphere
- Manual 4- position film holder
- Single hole film holder
- Manual 4 cell holder up to 100mm
- Single hole cell holder – 10mm
- Auto cell holder
- Wi-Fi Lamp control

Please note

If this Spectrophotometer does not match the specific needs of your application, or some options are not listed for sale, please feel free to contact us. Our manufacturing engineers will come up with technical solutions to meet your needs. We reserve the right to change technical specifications at any time.

COLO LabExperts



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