NOVEL100 UV/Vis Scanning Spectrophotometer 190-1100nm

Single/Double Beam,

LCD Touch Screen

Auto Scanning

S/Double Beam

Smart WI FI

Download Catalogue

Price - €

NOVEL100 is UV/Visible spectrophotometer, combined with ARM processing core. Automatic wavelength makes the instrument have the test speed and function of high-end instruments. It can meet the qualitative and quantitative analysis of most samples in the visible spectrum range of conventional laboratories. It is suitable for application in the departments of medicine and health, clinical examination, biochemistry, petrochemical industry, environmental protection and quality control.

Technical Specification:
- •8-inch color touch screen, realize simple and effective human-computer interaction, and clearly display test data and scan results.
- •Built-in thermal printer (optional), to achieve the printout of test results, facilitates the formation and storage of data reports.
- •USB communication port and included COLO visible spectrum software, realize data and map processing functions, and storage of massive data files, and provide convenience for customers' secondary development.
- •With full-band scanning, sub-band scanning, dynamic time scanning, automatic wavelength adjustment, automatic empty probe measurement, auto zero, linear regression, concentration direct reading, peak and valley detection, automatic concentration determination by the calibration curve, timing printing and other functions.
- •Advanced power-off protection measures can memorize test data, scan spectrum, regression equations and instrument correction parameters to achieve rapid initialization.
- •Automatic light door technology, no need for black body, protect photoelectric sensor.

Options:
- •Built-in thermal printer
- •COLO UV/Vis visible spectrum software Included
- •5cm or 10cm cuvette holder manual or automatic (optional)
- •Standard 4x1cm cuvette holder included (automatic is optional)

Power Supply:
- •Power supply voltage: AC220V ± 10%V 50Hz-60Hz
- •Rated power: 100W

Wi FI UV Lamp control - option

To ensure a longer lifespan of the UV 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

LCD Touch Screen Digital Display

10,1 inch capacitive touch screen, to display curve, import test data, setting parameters

Professional Software

Professional COLO 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	NOVEL-100	NOVEL-100S	NOVEL-102S
Price			
	Auto WL Settings	Auto WL Settings, Scanning	Auto WL Settings, Scanning
Cuvette holder	Manual 4 position	8 position Auto cell holder	Manual
Optical System	Single Beam, Optical grating 1200 lines/mm		Double Beam, Optical grating 1200 lines/mm
Focal length	170mm		
Wave Length Range nm	190-1100nm		
Spectral Bandwidth nm	2nm		
Wavelength Accuracy	±0,3nm		
Wavelength Repeatability	≤0,1nm		
Photometric Accuracy	0.2%T(0~100%T), ±0.002A(0-0.5A), ±0.004A(0.5-1A)		
Photometric Repeatability	≤0.10%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	<=0.03%T (at 360nm)		
Stability	≤±0,0005A/h at 500nm		≤±0,0003A/h at 500nm
Baseline Flatness	±0.0002A		
Noise	0,0005 A at 500nm		
Baseline drift	0.003Abs / 0.5h		
Wavelength Setting	Auto		
Work Mode	T, A, C, E Multi-Function - Photometric, Quantitative, Spectral Scanning, Kinetics, DNA/protein…		
Light Source	Deuterium (D2)/Tungsten-Halogen Lamp		
Wavelength scanning speed	fast, medium and slow		
Display	10.1" TFT Color Capacitive Touch Screen		
Detector	Silicon Photodiode		
Output	USB Host/USB Drive/RS232/SD Card		
Power	AC220V/50Hz 100W		
Instrument Size	590*475 x 250mm	760*560*280mm	770*570*280mm
Packing Size	810*660*390mm	880*690*520mm	880*690*520mm
Gross weight / Net Weight (kg)	15/18	15/18	16/19
Standard Configuration	Spectrophotometer with Euro plug power cable, 4 pcs glass cuvette, 2 pc quartz cuvette, Instruction manual,		
Option	Built in printer, professional software, wireless lamp control,		

Single hole film holder

Auto 8-cell holder

single hole cell holder-10mm

Manual 4-position film holder

Integrating Sphere

Manual 4-cell holder-100mm

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 8-cell holder

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