

NOVEL100M UV/Vis Scanning Spectrophotometer 190-1100nm



LCD Touch Screen



Auto Scanning



S/Double Beam



Smart WI FI

Download Catalogue





Wi Fi 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 Windows OS Software as a standard configuration with internal program and memory storage 526MB



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

Single/Double Beam,

Price - €

NOVEL100M is UV/Visible spectrophotometer, combined with ARM processing core. Automatic wavelength makes the instrument have the test speed and function of highend 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. Concentration factor setup and direct reading of concentration. Up to 10 calibration standard. Quantitative curve up to 3 wavelength.
- •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
- •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: 110W

Type	NOVEL-100M	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 §	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	5nm			
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	≤±0,0005A/h at 500nm		
Baseline Flatness	±0.0002A			
Noise	0,0005 A at 500nm			
Baseline drift	0.003Abs / 0.5h			
Units	(None) (%) (ppb) (mol/L) (g/L) (mg/ml) (ug/ml) (ng/ml)			
Wavelength Setting	Auto			
Work Mode	T, A, C, E Multi-Function - Photometric, Quantitative, Spectral Scanning, Kinetics, DNA/protein			
Scanning function Interval	0,1/0,2/0,5/1/2/5/			
Kinetics	999min with steps 0,1 to 30 sec range			
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	F00*00F 000	AC220V±10% /50Hz 110W		
Instrument Size	500*395 x 200mm	500*395 x 200mm	500*395 x 200mm	
Packing Size	595*660*390mm	595*660*390mm	595*660*390mm	
Gross weight / Net Weight (kg)	15/12	15/12	15/12	
Standard Configuration	Spectrophotometer with Euro plug power cable, 4 pcs glass cuvette, 2 pc quartz cuvette, Instruction manual,			
Option	Built in printer, professional software (Windows OS, all version) wireless lamp control, memory cards			



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.

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

COLO LabExperts



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