UV-Vis Spectrophotometer, Single Beam

Brand **Master Science** | Unit **Pc**



The instrument can meet the requirement of quantitative analysis for most samples conducted within the visible and ultraviolet-visible spectral range in conventional laboratories and is suitable for use in medicine and health, clinical examination, biochemical, petrochemical, environmental protection, quality control departments, colleges and universities and others.

KEY HIGHLIGHTS

- 7-inch Multi-Color Touch Screen

Request a Quotation
Contact us for pricing, configuration options and delivery details.

support@themsci.com
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Key Features

7-inch Multi-Color Touch Screen
Provides simple and effective human-computer interaction with clear display of test data.

Technical Specifications

PARAMETER	SPECIFICATION
Monochromator TypeCzerny-Turner	
Focal Length160mm	
Grating1200 lines/mm	
DetectorSilicon photocell	
Spectrum Bandwidth2nm	
Wavelength Range190-1100nm	
Wavelength Accuracy±1nm	
Wavelength Repeatability≤0.5nm	
Photometric Range (%T)0.0-200.0%	
Photometric Range (Absorbance (A))-0.301 to 4.000	
Photometric Range (Concentration ©)0.000-9999	
Photometric Accuracy (%T)±0.3%	
Photometric Accuracy (Abs (0-0.5A))±0.002	

PARAMETER	SPECIFICATION
Photometric Accuracy (Abs (0.5-1A))	±0.004
Photometric Repeatability (%T)	≤0.15%
Photometric Repeatability (Abs (0-0.5A))	0.001
Photometric Repeatability (Abs (0.5-1A))	0.002
Photometric Repeatability (Stray Light)	≤0.1%T (at 220nm NaI, 360nm NaNO2)
Noise (100% (T))	Noise ≤0.5% (T)
Noise (0% (T))	Noise ≤0.2% (T)
Noise (Drifting)	±0.002 Abs/30min (at 250nm and 500nm after 2h warm-up)
Noise (Electricity)	AC220V±22V, 50Hz±1Hz, 180W
Noise (Dimensions (LWH))	475x365x200mm
Noise (Weight (N.W./G.W.))	14kg/17.2kg
Noise (Shipping Dimensions (WDH))	640x550x420mm

Standard Accessories Included

- User Manual (1pc)
- Glass Cuvette 1cm (4pcs)
- Quartz Cuvette 1cm (2pcs)
- Power Cable (1pc)
- Fuse (2pcs)

Optional Accessories

- Facilitates printout of test results for data reports.
- USB Communication Port and UVWIN8 Software (Optional): Enables data processing, mapping functions, and storage of large data files. Also supports secondary development by customers.
- Automatic Wavelength Setting: Fast and accurate. Includes functions like wavelength scanning (S model only), kinetic time scanning, automatic wavelength, linear regression, direct read-out of concentration, peak detection, and regular printing.
- Advanced Power Shut-Down Protection: Memorizes detected data, regression equation, and instrument correction parameters for fast initialization.
- Tungsten Lamp and Deuterium Lamp: Lifetime protection.
- Internal Thermal Printer
- UV WIN8 Spectrum Data Processing Software
- Cuvette Holder 50mm
- Cuvette Holder 100mm