

Double Beam UV- Vis Spectrophotometer



TL-1800UV

TOPLAB INDIA'S TL-1800UV Series UV Vis Spectrophotometer is Large screen Double beam UV Vis Spectrophotometer. It adopts double beam lng path design to ensure the stability and accuracy. They are the best choice of high quality spectrophotometers in industry.

TL-1800Series is successful implementation of the stringent requirements of high accuracy and reliability measurement to meet the requirements of various applications that can be used in biological research, bio-industry , pharmaceutical analysis , pharmaceutical, teaching and research, environmental protection , food hygiene, clinical examination , health and epidemic prevention , and other fields .

Features



- Light path design: double beam

TL-1800UV double light path design can prevent circuit fluctuation and stray light to ensure stability of the instrument.

- Powerful software functions

Multi functions like spectrum scanning, standard curve, kinetics, multi wavelength scanning, DNA/Protein testing can be operated directly on the PC.

- Long light path design

TL-1800UV has the unique 520mm long light path design greatly improved resolution and the bandwidth can reach 0.5nm. Automatic wavelength setting function.

- Multi functions

Multi functions operated directly on the spectrophotometer and display the test results' curve and data: wavelength scanning, standard curve, kinetics, multi wavelength scanning, DNA/Protein test.

- 6 inches LCD display

TL-1800UV has a 6 inches LCD display to show results and curves directly on the screen.

- 16mm optical base

TL-1800UV uses a rigid 16mm die-cast aluminum base as their optical mount to ensure the stability and reliability.

- Perfect calibration system

All baseline, wavelength, dark current can be calibrated automatically to keep good running conditions.

- Data output

TL-1800UV is equipped with USB port to connect with a PC, Windows based Software with the instrument.(software optional) . Measurement data can be output through the printer with USB interface.



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Technical Specification ... >>>

Model number	TL-1800UV	TL-1800UVA	TL-1800UVS
Optical System	Double Beam (1200 Lines/mm Grating)		
Wavelength Range	190 - 1100 nm		
Bandwidth	1.8nm	1nm	0.5/1.0/2.0/4.0 nm
Wavelength Accuracy	±0.3nm		
Wavelength Repeatability	≤0.1nm		
Photometric Accuracy	±0.3% T (0-100%T) , ±0.002A(0 ~ 0.5A), ±0.003A(0.5A ~ 1A)		
Photometric Repeatability	0.1% T (0-100%T) , ±0.001A(0 ~ 0.5A), ±0.0015A(0.5A ~ 1A)		
Photometric Range	-4~4 A , 0 ~ 200%T, 0 ~ 9999C		
Stray Light	≤0.03% T (220nm NaI , 340nm NaNO ₂)		
Stability	0.0005A/h @500nm		
Noise	±0.00005A @500nm		
Baseline Flatness	±0.0005A/h		
Baseline Stability	±0.0005A/h		
Wavelength Setting	Automatic		
Detector	Photomultiplier Tube (PMT)		
Monochromator	Blazed Holographic Grating		
Photometric Mode	Transmittance, Absorbance, Concentration, Reflectance		
Wavelength Scan Speed	Up to 4000 nm/min		
Output	USB interface		
Light Source (Lamps)	Deuterium(D ₂) Lamp & Tungsten Halogen Lamp		
Power Requirement	AC 220V/50Hz		
Dimensions (W*D*H)	560×450×230mm		
Weight	28Kg		

Standard Accessories >>>

Item	Description	Quantity	Unit
1	Spectrophotometer	1	set
2	1cm Glass cuvette	4	pcs
3	Power cord	1	pcs
4	User's Manual	1	pcs
5	1cm quartz cuvette	2	pcs
6	Dust Cover	1	pcs
7	Software Kit (optional)	1	pcs