

Double Beam UV- Vis Spectrophotometer



TL-1900UVS

TOPLAB INDIA'S Model TL-1900UVS UV-Vis Spectrophotometer is Large Screen Double Beam UV-Vis Spectrophotometer. It adopts Double Beam long path design to ensure the stability and accuracy. They are the best choice of high quality spectrophotometers in industry.

TL-1900UVS 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 Research, Health and Pandemic Prevention and other fields.

Features



- Light path design: double beam

TL-1900UVS has Double Beam optical path design can prevent circuit fluctuations and stray light to ensure stability of instrument.

- Powerful software functions

Multi Functions like Spectrum Scanning, Standard Curve, Kinetics, Multi-Wavelength Scanning; DNA/Protein testing can be operated directly on Display and PC.

- Long light path design

TL-1900UVS has Unique 520mm long light path design greatly improved Resolution and the Bandwidth can reach 0.1nm. It has Automatic Wavelength setting function.

- Multi functions

Multi-Function 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-1900UVS has 6" inches large LCD Display to show results and curve directly on screen. It is easy and convenient to operate spectrophotometer without computer.

- 16mm optical base

TL-1900UVS uses the rigid 16mm die-cast aluminium base as their optical mount to ensure the stability. It has Blazed Holographic Grating Monochromator with 1200 lines/mm.

- Perfect calibration system

All parameters like Baseline, Wavelength and Dark Current can be calibrated automatically to keep spectrophotometer good running condition

- Data output

TL-1900UVS Equipped with USB port to connect with a PC to control through windows based software; the software doesn't come as standard supply, Its Optional. Measurement data & curve can be output through the printer with USB interface.



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Technical Specification ... >>>

Model No.	TL-1900UVS
Optical System	Double Beam Optical System (1200 Lines/mm grating)
Wavelength Range	190~1100nm
Bandwidth	0.1nm,0.2nm,0.5nm,1.0nm,2.0nm,4.0nm (Variable)
Wavelength Accuracy	±0.1nm
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	-4~4A , 0 ~ 400%T, 0 ~ 9999C
Stray Light	≤0.02%T (220nm NaI , 340nm NaNO ₂)
Stability	≤0.0003A/h @500nm
Noise	±0.00001A @500nm
Baseline Flatness	± 0.0003A/h
Baseline Stability	0.0002 A/h
Wavelength Setting	Automatic Selection
Detector	Photomultiplier Tube (PMT) / Dual Silicon Photodiode (Optional)
Monochromator	Czerny-Turner Blazed Holographic Grating
Photometric Mode	T,A,C,E (Transmittance, Absorbance, Concentration, Reflectance)
Wavelength Scan Speed	Up to 4000 nm/min (Variable)
Wavelength Slew Speed	Up to 8000 nm/min
Output	USB interface(For Data Transfer/Storage,PC & Printer Connectivity)
Light Source (Lamps)	Deuterium(D ₂) Lamp & Tungsten Halogen Lamp
Power Requirement	AC 220V/50Hz
Dimensions (W*D*H)	560×450×230mm
Weight	28Kg

Optional Accessories



Reflectance Attachment: Integrating sphere is highly reflective inner surface of the hollow sphere. It is mainly used to detect in the ball inside or outside the ball in and near a window sample scattered or reflected light, the light or the light source itself an efficient devices are collected. Can be used to the optical reflection and transmission properties of the material, light irradiance, brightness and chromaticity do some precise measurement.

The outer surface of the integral ball generally made of metal or hard plastic cover, have one or more holes on the surface, can be used as entrance or exit window. After monochromator spectral characteristic of optical radiation through the reflection of attachments, sample reflected signal detector receive, so as to realize the reflection measurement of the sample.

Basic parameters and measurement conditions:

Boundary dimension (LxWxH) : 95mm × 101mm × 99mm

Integrating sphere diameter · · 60mm

Spectral range:220nm -1100nm

Spectral bandwidth: 2nm

Cuvette holder : Manual four cuvette holder with stand, manual Eighth cuvette holder, automatic Eighth cuvette holder.

Rectangular long-path cell holder:Holds two long path cells (light path 5-100mm)

Solid sample holder:Used for transmittance/absorbance measurement of a solid sheet sample Sample