

# UV Spectro

CYBERLAB™

Double Beam UV/Vis Spectrophotometer  
Model UV-100 *SuperSpec*



CE

## SuperFeatures from UV-100 *SuperSpec*

- Double Beam Optics
- 1nm Bandwidth
- 8 Cell Holder (1+8)
- Large View LCD Screen
- In-built USB Ports
- Real Time UV Control Software
- Hardware Validation Built-in
- ABS/%T/Conc./Survey Scan/Std. Curve/  
Kinetics/Bio Mode (DNA, RNA, Protein Analysis)/  
Multiple Wavelengths/Multi Components/  
Time Course/Spectrum/Scanning & many more...

1

# nm Bandwidth

Specifications & Functions conform to USP/EP/JP



# Double Beam UV/Vis Spectrophotometer Model UV-100SuperSpec



UV-100SuperSpec is very much ideal for analyzing components that require multiple wavelengths, time course operations, and getting stable data sheets.

## Advantages with UV-100SuperSpec

- Expand your laboratorial work using ultraviolet (UV) testing capabilities for applications and measurement requiring wavelengths not available on visible-light-only spectrophotometer, and advanced applications available using double beam light sources.
- Fast analysis of a wide range of samples and capable your analysis to put out experiments using programmed procedures.
- Even more powerful in information technologies so that you will be able to work out in your home by using internet.
- Bigger storage capacity than any others.
- Simple kinetics using time-course measurement or complete other research projects using its double light source ability to automatically complete multiple scans.
- **UV-100SuperSpec** has capabilities with a range of 190nm to 1100nm.

## Standard Set-up

- |                                     |                                    |
|-------------------------------------|------------------------------------|
| • Mains Spectrophotometer           | • Software: <b>UV-100SuperSpec</b> |
| • 8 cell automotive rotating holder | • Upgrading software: Free         |
| • Embedded XP based program         | • 10mm UV/Quartz Cells (2/pk)      |
| • TFT/LCD monitor                   | • 10mm OG/Glass Cells (2/pk)       |
| • Keyboard                          | • Power system: 110V/220V          |
| • Mouse                             | • Touch-screen LCD: Optional       |

## Hardware Specification

Photometric System	: Double beam optics
Spectral Band pass width	: 1.0nm
Wavelength Range	: 190nm to 1100nm
Wavelength Accuracy	: < $\pm 0.3$ nm (at D2 peak 656.1 nm, 486.0nm)
Wavelength Reproducibility	: < $\pm 0.1$ nm
Wavelength Setting	: 0.1nm
Wavelength Slew Rate	: about 5000nm/min
Wavelength Scanning Speed	: Max. 3000nm/min
Photometric Range	: -0.5 to 4.0ABS
Photometric Accuracy	: $\pm 0.004$ ABS
BaseLine Flatness	: < $\pm 0.001$ ABS (200nm to 1100nm)
Noise Level	: < 0.001A
Drift	: 0.002A/hr at 340 nm
Stability	: $\pm 0.002$ A/hr
Light Source	: Tungsten-halogen lamp and deuterium lamp
Lamp Change Wavelength	: 340nm to 410nm (default 370nm), include auto position system
Monochromator	: Modified czemy-tuner type with 1200 lines/mm blazed grating
Detector	: Silicone photodiode
Power Requirement	: AC 220V, 50/60Hz (Please confirm power rate of your area)
Dimensions	: 600(w)X440(d)x250(h) mm
Weight	: 16kg

## Optional Accessories



Temperature Cell Holder  
-10 °C ~ 80 °C



Micro Volume Cell Holder  
< 1000 $\mu$ l Single Cell Holder  
Pathlength 10nm,  
Center Height 8.5mm



Film Cell Holder-Wide  
Thickness 5mm/  
W x H: 100mm x 70mm



Film Cell Holder-Small  
Thickness 2mm/  
W x H: 10mm x 30mm



Round Cell Holder  
for Test Tube 16mm,  
25mm deepness

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