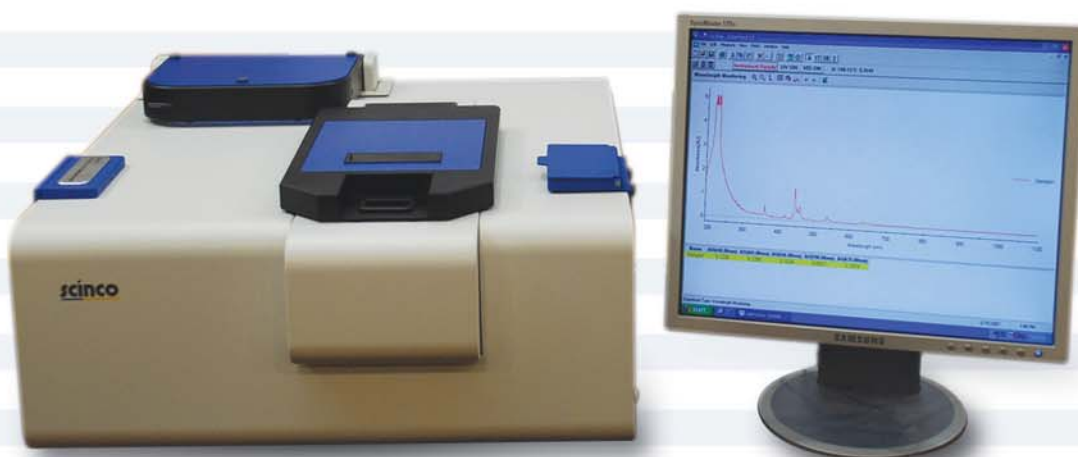


SD-1000 *Double Beam UV-Vis Spectrophotometer*



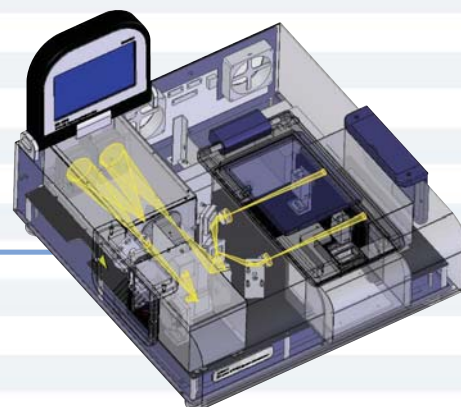
SD-1000 Double Beam UV-Vis Spectrophotometer



Features

Double Beam Optic System

The stand-alone UV-Vis Spectrophotometer, SD-1000, combines the features of a Windows PC with those of a double beam instrument. The SD-1000 is a double beam UV-Vis Spectrophotometer with a beam splitter and two silicon photodiode detectors. Since sample and reference beams are measured simultaneously by two separate but identical detectors, the effect of lamp drift is virtually eliminated. This means that analysis can begin immediately without much warm-up for the lamp to stabilize. Also sample and blank are measured simultaneously rather than at separate times.



Embedded PC (O/S Windows XP)

The SD-1000 with Windows XP operating system, hard disk storage and built-in Color LCD monitor provides the same features as a separate PC. The conventional systems need to connect PC to control software, but the embedded PC in the SD-1000 system can run the software itself without additional connection to the external PC. It provides the users with the most convenience and requires less footprint for installation.

8 inch Color LCD monitor, 800 x 600 pixels (Optional touch screen)

The SD-1000 system with a high resolution of Color LCD monitor needs no external monitor and touch screen (optional) function enables users to easily access the system and carry out convenient experiment.



User Friendly Design; Keyboard & Mouse connectable directly

Wireless Keyboard and Mouse directly connected through the USB port provide users with easy control of the system.

USB port (3ea); External PC & Printer & USB Memory connectable

Through the USB port, an external PC can control the system. Experiment data can be documented by printer and USB storage can be used for various purposes such as results transferring, retrieving, etc.

Optional Printer available

Compatible with various printers due to the embedded PC system. With the Printer (Optional), experiment results can be printed on spot in an easy way.

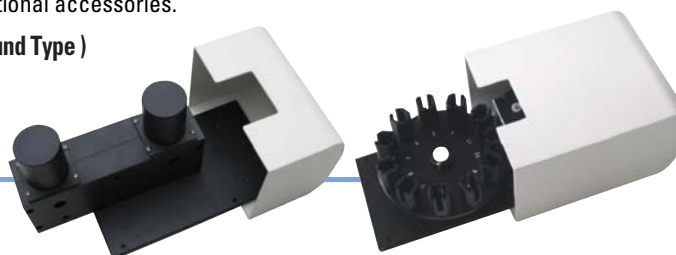
LAN Communication

Through the LAN Communication, Network provides the convenience to share the data, update programs, and so on.

Various Accessories available

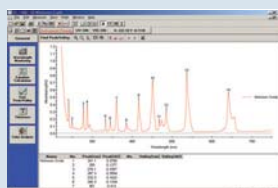
SCINCO provides various accessories for a range of applications under optimum analysis conditions. To meet the demand of various applications, SCINCO has been developing additional accessories.

- **11-Position Multi-Cell Holder (Round Type)**
- **Variable Pathlength Cell Holder**
- **Water Jacketed Cell Holder**
- **Integrating Sphere**



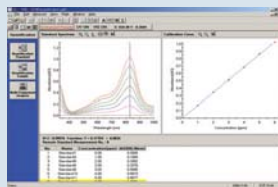
LabPro[®] Duo Software

The LabPro[®] Duo is a powerful software that controls the SD-1000 UV-Vis Spectrophotometer. It is a very useful, convenient and efficient tool to analyze the results from SD-1000 system. The LabPro[®] Duo enables the system to carry out complete experiments for the various applications.



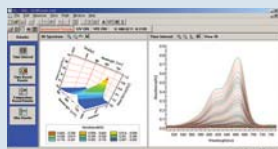
General Mode

- Wavelength Monitoring
- Find Peak / Valley
- Equation Calculation



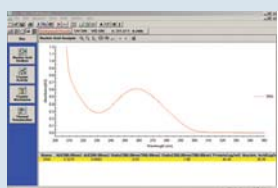
Quantification Mode

- Calibration Curve, 1st, 2nd and 3rd
- Correlation Coefficient
- Auto-calculation of unknown Sample
- Support Zero Offset of Standard Curve



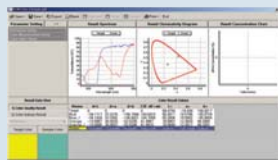
Kinetic Mode

- Time Interval
- Time Based Kinetic
- Temperature Based Kinetic
- Ultra kinetic
- Real-time display
- Calculation of Reaction Rate
- Reaction Mechanism
- Display 3D Spectrum



Bio Mode

- Nucleic Acid Analysis
- Protein Analysis
- Enzyme Activity
- Enzyme Mechanism
- Thermal Denaturation



Special Mode

- Color Analysis
- Multi-Component Analysis
- DOBI Analysis

Useful Function

- Lamp On/Off
- Baseline Correction
- Customized Report
- Easy and useful Export
- Math Function (Smoothing, Derivative, Log,...)

Validation & 21 CFR Part 11

- 4Q Documents
- Automatic Validation Wizard
- Enhanced Security based on Win XP
- Electronic Signature and Traceability

Applications

The SD-1000 Double Beam UV-Vis Spectrophotometer provides versatile applications from general analysis to professional research levels. It would ensure superior results and reliability for the customers in Environmental, Pharmaceutical and Biochemical industries, etc.

1. Pharmaceutical / Clinical / Cosmetics

Used for analysis of raw materials and products in R&D, QC/QA and in the Dissolution Testing, DOBI Analysis

2. Biochemical / Genetics

Quantification of Nucleic Acid, Protein/Analysis of Enzyme activity and Mechanism study of Enzyme activity
Thermal Denaturation of DNA

3. Analytical Chemistry

Research centers/Universities/Laboratories Verification of synthesis

4. Dye / Ink / Paint

QC in the development and production of dyeing reagents/inks/paints
Analysis of intermediate dyeing reagents

5. Environmental / Agriculture

Quantification of organic materials/heavy metals in Freshwater, Seawater, Atmosphere and Solids,
Quantification of hazardous substance by RoHS

6. Metals / Films

Semiconductors, Mining industry. Metal Refining/Measuring the thickness of thin films and coating materials,
Measuring Transmittance/Reflectance

7. Petrochemical

Specifications

- Light Source : Deuterium & Tungsten Lamp
- Monochromator : Blazed holographic plane grating (1200 gr/min)
- Detector Type : Photodiodes
- Photometric System : Double Beam Optics
- Wavelength Range : 190 - 1100 nm
- Slit Width (Bandwidth) : Variable 1.0, 2.0, 5.0, 10, 20 nm
- EP Resolution : > 1.7 nm
- Data Interval : Variable 0.25, 1, 2, 4, 8, 10, 20 min
- Wavelength Accuracy : ± 0.3 nm
- Wavelength Repeatability : ± 0.1 nm
- Photometric Range : -3.0 ~ +3.0 AU
- Photometric Accuracy : ± 0.005 AU
- Photometric Repeatability : ± 0.001 AU (at 1.0 AU)
- Stray Light : < 0.04%
- Noise Level : < 0.001 AU P-P
(at 0 AU, 500 nm 2s response)
< 0.0002 RMS
- Baseline Stability (Drift) : < 0.001 AU/hour
- Baseline Flatness : < 0.001 AU/hour
- Wavelength Slew Speed : 10000 nm/min
- Wavelength Scan Speed : 4800 nm/min (Maximum)

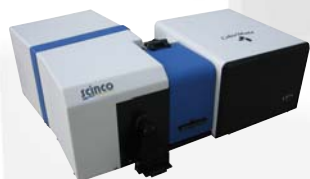
scinco Spectrophotometer Products



S-3100 PDA UV-Vis Spectrophotometer



S-4100 PDA UV-Vis Spectrophotometer



ColorMate Color Spectrophotometer



FluoroMate FS-2 Fluorescence Spectrometer

Warranty

One full year warranty on the complete system.

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