

SP2000 Visible Spectrophotometer

Recommended application:

"SP-2000 is a visible spectrophotometer special designed for micro amount sample. The sample compartment can hold cuvettes with 100mm light path, and diversified cuvettes with light path at a range of 5-50mm also can be hold. SP-2000 is used as a teaching instrument in basis laboratories, which is used in colleges for specialty of environmental protection. It's also used as an instrument for products quality control at sugar-refinery, food and drink industry."

It's better used as a monitoring device that controls the let of waste water in industries, such as electricity generating, water supply, paper making, plating, printing and dyeing, and so on.

Main features:

- * The large sample compartment with long path detecting system, enable diversified cuvettes be hold at the range of 5-100mm.
- * Novel designed auto-collimated light path with grating monochromatic, guarantees excellent optical performance.
- * The SCM technology enables the instrument to be intelligent and digital.
- * Function of 0%T and 100%T self-adjusting, which enables the operation simple and human.
- * Large display with LCD, which enables the testing parameters, be displayed as transmittance, absorbance, and concentration.
- * High precision of data processing that reaches one percent of a hundred thousand, which makes the transform between transmittance and absorbance with little error be possible.
- * Filters auto-switching at the whole wavelength range, enables the instrument without additional manual operation.
- * Switching power supply, with self-adaptive inputting voltage of 85~264VAC, (that is abbreviated to "SMPS"), guarantees that the instrument can work normally with different power supply at any environment.

SP2000

Basic testing mode:

Basic measurement	Photometric measurement,(A/T)
	Concentration measurement (C)
Concentration measurement	Slope method (C=K*A)
	Standard curve method
Software functions	Win-spec workstation, SP-1.33EN
Photometric analysis	T, A, and C measurement
Quantitative analysis	Standard curve measurement
Kinetic analysis	Measurement with time-scanning.

Main Specification:

Display	3.5bits digital LCD Displayer
Light Source	6V10W Halogen Lamp(2000 hours)
Sample Compartment(Max)	50mm Optical Path
Standard Cell Holder	50mm
Standard Cell Configuration	10mm Glass cell(4pcs)
Power Requirement	110/220VAC , 50/60Hz,±10%

Basic instrument functions:

100%T or 0%T setup	Automatic.
Signal output	RS-232C, Analog
Communication function	Intercommunication can be realized after connecting to PC

Photometric Performance:

Photometric Analysis	T, A, and C measurement;
Photometric Range	0-125.0%T , 0-1.999A, 0-1999C , 0-1999F
Photometric Accuracy	±0.5%T
Photometric repeatability	0.3%T
Stability	±0.003A/hr (at 500nm, after warming up for 1 hour)

Optical Performance:

Optic System	Littrow type optic system with 1200 grooves/mm diffraction grating monochromator
Light path	100mm
Spectrum bandwidth	5nm
Wavelength range	325-1000nm
Wavelength accuracy	±2nm
Wavelength repeatability	1nm
Stray light	≤0.5%T (at 360nm)



Standard configuration:

- 50mm manual four-cell holder, 1pcs
- 10*10*45 mm standard glass cuvettes, 4pcs
- RS-232C connection cord, 1pcs
- Power cable, 1pcs
- User manual, 1pcs
- Operation procedure, 1pcs
- Win-spec software SP-1.33EN, 1pcs

Function configuration:

Standard type: SP-2000

The operation can be carried out by the instrument. It also can be controlled by PC, which is easy to master, and plenty of testing data can be stored, data processing such as calculation, statistic analysis and tab also can be realized.

Note: There may not be special notifications when the technical specification, profile and configuration changed. Please, the products will be in agreement with the real models.