



Excellence in Measurement

ISO9001:2008 CERTIFIED COMPANY



CE CB RoHS

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▷ SP-VIS 200

Basic Instrument Functions

Mode of operation	Photometric measurement,(A/T) Concentration measurement(C)
Concentration measurement	Slope method ($C=K \cdot A$) Standard curve method ($C=K \cdot A + b$)
Photometric analysis	T, A, and C measurement
Quantitative analysis	Standard curve measurement
Display mode	Wavelength, %T, Absorbance, Concentration and Standard curve.
Storage function	56 standard curves in the instrument
Light source management	Light source on/off status can be controlled to elongate its working life.
System self-testing	Wavelength self-testing, light sources self-testing, energy calibrating.
Instrument control	Standalone or PC Software
Signal output	USB & Printer Port



PC Mode (additional function using Win-spec Software)

Kinetic analysis	measurement with time-scanning.
Multiple wavelength analysis	measurement with many wavelengths
Software functions	Validation (GLP/GMP) and a lot of other functions

Performance Specification

ITEM	SP-VIS 200
Optic system	Single beam with 1200 lines/mm diffraction grating monochromator.
Light path	10mm-100mm
Spectral bandwidth	4nm
Wavelength range	320-1100nm (0.1nm increment)
Wavelength accuracy	±0.5nm
Wavelength repeatability	±0.3nm
Stray light	≤0.3%T (at 340nm)
Photometric mode	T, A, and Conc. measurement;
Photometric range	0-125.0%T, -1.000-4.000A* , 0.000-9,999 Conc.
Photometric accuracy	±0.3%T
Photometric repeatability	±0.2%T
Baseline stability	±0.002A/hr (at 500nm, after lamp turned on for 1 hour)
Baseline flatness	±0.003A
Noise level	≤0.001A (at 0A, 500nm)
Light source	Tungsten-Halogen
Detector	Silicon Photodiode

Accessories available

- 10mm lightpath, 6 cell auto cuvette holder.*
- Micro-volume cuvette (30µl, as the minimum volume.)
(Adjustable cuvette holder should be used.)
- Ultra-micro cuvette (0.1µl, as the minimum volume.)
- Peltier single cell holder system*
(Used for example : kinetic analysis.)
- Sipper system
- Sipper with adjustable temperature cuvette holder.
- Multipurpose cuvette holder for both 10mm light path cuvette and Ø8-Ø22 round tube
- 16 mm round tube holder for COD test
- Thin film test holder
- Reflectance holder for glass filter sample

Standard configuration

- 10mm manual four-cell holder 1pcs
- 10×10×45 mm standard glass cuvettes 4pcs
- USB connection cord 1pcs
- Power cable 1pcs
- User manual 1pcs

Main Specification

Display	128×64 characters LCD with 4 lines display
Control System	Microprocessor
Sample Compartment	100mm Optical Path
Standard Cell Holder	10mm
Power Requirement	110/220VAC, 50/60Hz, ±10%
Size	435(W)×350(D)×205 (H) mm
Net Weight	12Kg
Gross weight	15Kg

*When the instrument is connected to the PC and controlled by software.