



SP-UV 200
UV-VIS Spectrophotometer

Spectrum
Instruments
a PerkinElmer company

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
Display mode	Wavelength, %T, Absorbance, Concentration
Storage function	50 standard curves in the instrument
Light source switching	Automatic switching at 325nm (can select upto 355nm)
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	Printer Port



Performance Specification

ITEM	SP-UV 200
Optic system	Single beam with 1200 lines/mm diffraction grating monochromator.
Light path	10mm-100mm
Spectral bandwidth	5nm
Wavelength range	200-1000nm (1.0nm increment)
Wavelength accuracy	±1.0nm
Wavelength repeatability	±0.5nm
Stray light	≤0.3%T (at 220nm NaI & 340nm, NaNO ₂)
Photometric mode	T, A, and Conc. measurement;
Photometric range	0-125.0%T, -0.097-2.5A, 0.000-9,999 Conc.
Photometric accuracy	±0.3%T
Photometric repeatability	±0.2%T
Baseline stability	±0.003A/hr (at 500nm, after lamp turned on for 1 hour)
Light source	Tungsten-Halogen & Deuterium
Detector	Silicon Photodiode

Accessories available

- 10mm lightpath, 6 cell auto cuvette holder.*
- 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
Ø10-Ø22 round tube
- 16 mm round tube holder for COD test
- Thin film test holder
- Reflectance holder for glass filter sample

Scope of supply

- 10mm manual four-cell holder 1pcs
- 10×10×45 mm standard glass cuvettes 4pcs
- 10×10×45 mm standard quartz cuvettes 2pcs
- User manual 1pcs

Main Specification

Display	2×20 characters LCD with 4 lines display
Sample compartment	100mm Optical Path
Standard cell holder	10mm
Power requirement	110/220VAC, 50/60Hz, ±10%
Size	465(W)×365(D)×175 (H) mm
Net weight	11Kg
Gross weight	15Kg

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