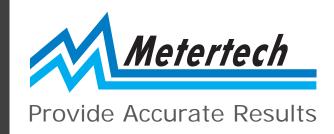
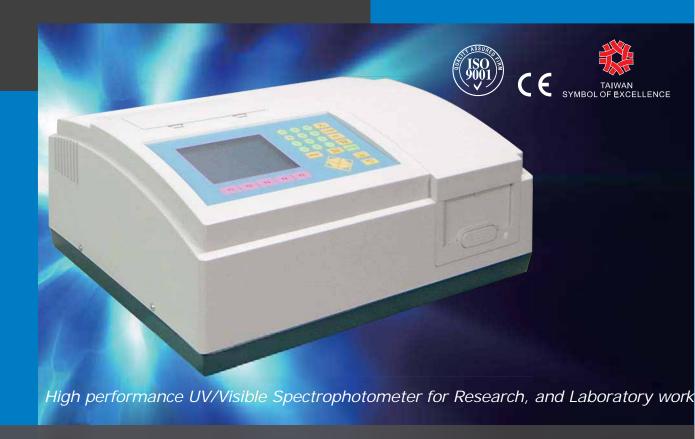
SP-8001 UV/Visible Spectrophotometer





Product Features

The Metertech SP-8001 UV/Visible Spectrophotometer is an accurate, reliable, and cost effective instrument designed for quality control, research, and teaching requirements.

The system is also designed with a narrow, and focused beam to provide excellent linearity, and small variance with small samples in semi microcells.

The SP-8001 offers a large on-board graphical display and soft-keys to provide access to functions, and applications easily. Users can store the datas and parameters from the experiment on-board in standalone or export to a PC with the PC-mate software.

For different experiment needs the SP-8001 offers additional flexibility with temperature control, sipper, 6 cell holder, and rectangular cell holder modules. The sample compartment modules can be interchanged fast and easy by the users.

With ongoing improvement and upgrades by Metertech the SP-8001, has become a reliable, versatile and easy to use instrument designed to meet the requirements of research institutes, educational needs, and manufacture facilities to perform routine analysis.



■ Intuitive design which requires minimum training to use

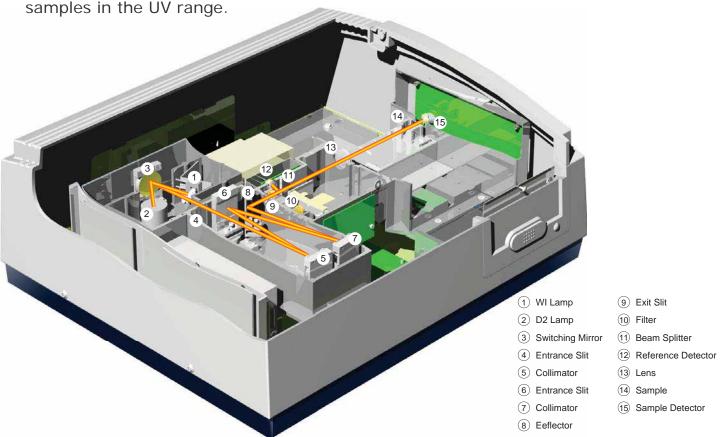
The on board graphic display and softkeys allows user to quickly setup, and execute their experiment with only a few keystrokes on the softkey to get their Absorbance, Concentration, Transmittance, and Spectrum reading data.

■ High performance optical design for reliability and easy maintenance

The split beam optical design allows the SP-8001 to measure samples with enhance stability. With the design of a reference detector the readings are subtracted by the sample detector results, so the results will be more accurate and less affected by the environmental condition.

The narrow($0.3x\ 0.6mm$) and focused beam design within the system allows users to The narrow($0.3x\ 0.6mm$) and focused beam design within the system allows users to The narrow($0.3x\ 0.6mm$) and focused beam design within the system allows users to produce excellent resolution and reproducible results for normal, and small samples (50uL).

The UV and Visible light source will automatically switch independently to save lamp life and cost. The Deuterium will only turn on when the instrument is scanning samples in the UV range.



■ Ingenious sample compartment design accommodates all needs

The universal sample compartment can easily accommodate all kinds of cell from 10~100mm path length cuvette to 10~13mm diameter test tube, users will be able to choose different type of sampleholder for their experiment needs.

Thermal-controlled sample compartment and multiple sampleholder can be adapted on SP-8001. Change of cell holder is quick and simple.



Sipper unit



Rectangular cell holder



Single cell holder

Automatic 6 cell changer accessory

The 6 cell changer on the SP-8001 provides a simple automatic method to measure multiple samples at once. User can designate one position as blank leaving a total space of 5 samples to be measured.



Automatic 6 cell holder

■ Advance temperature control

The SP-8001 offers advance temperature control accessory. User will have the option to use a standalone thermal electric for temperature control or use a re-circulating water circulating bath for temperature control.



Thermo electric cell holder



Thermo fluid cell holder

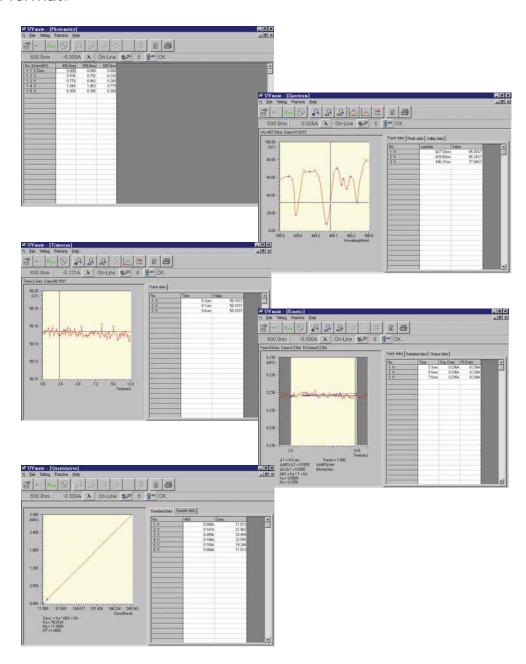


Cylindrical cell holder

■ Enhance features on UV-Mate PC software

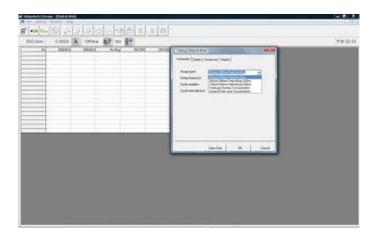
For enhance features and data storage, the SP-8001 can connect to a PC with the UV-Mate software.

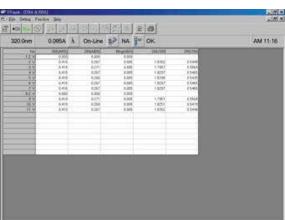
The UV-Mate software comes with the standard Photometric, Spectrum, Timescan, Kinetic, and quantitative features, but also comes with more complex features such as DNA/RNA, and Protein analysis. Users will also have the flexibility to save the data into Excel format.

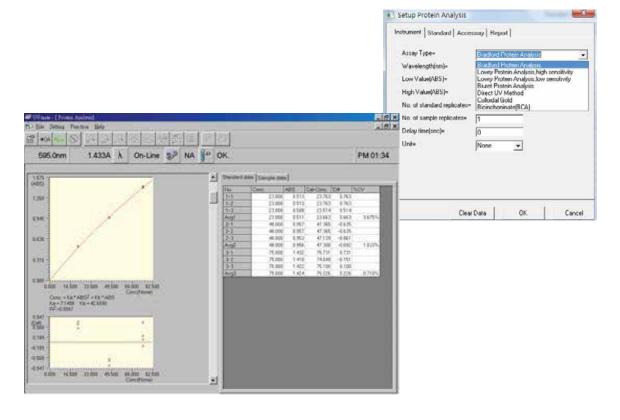


■ Application of lab routine measurement of nucleic acid and protein

The SP-8001 offers built-in applications for DNA and protein analysis. Users can choose between using the standalone mode, or use the UV-Mate software to control the instrument for analysis.







Specification

Model Number	SP-8001
Optical Design	Split Beam (Internal double beam design)
Light Source	Deuterium and Halogen lamp, auto switching at 320~360nm
Detector	Silicon photodiode
Wavelength Range	190-1100 nm
Bandwidth	2nm
Wavelength Accuracy	+/- 0.5 nm
Wavelength Repeatability	+/- 0.2 nm
Measurement mode	Absorbance, Transmittance (%T), Concentration
Photometric accuracy	+/- 0.005Abs at 1.000Abs
Photometric range	-0.300~3.500Abs
Baseline flatness	+/-0.002Abs (210~1000nm)
Noise level	+/-0.0001Abs (500nm)
Stability	Drifting < 0.0003Abs/hr at 500nm after 1 hour warm-up
Stray Light	< 0.05% at 340 and 220 nm by NIST SRM2031
Wavelength scanning speed	100-5000 nm/min (user programmable)
Display	6 Inch LCD display with back lightt
Interface	RS232 and parallel port
PC software	UV-mate software
Power	100 ~ 240V at 50/60Hz
Dimension	506(W) x 430(D) x 220(H) mm
Weight	18 kg

 ${}^{\star}\text{Metertech}$ reserve the right to alter specifications without notice

Ordering Information

PART NUMBER	DESCRIPTION
SP-830+	Visible Spectrophotometer
SP-880	Visible Spectrophotometer with PC compatibility
SP-8001	UV- Visible Spectrophotometer
M8001-001	Deuterium lamp
M8001-002	Halogen lamp
M8001-100	6-cell holder unit
M8001-300	Flow-cell unit
M8001-301	Sipper unit
M8001-400	Water circulation temperature control unit for single cell holder 10mm light path
M8001-401	Electronic type temperature control unit for single cell holder
M8001-500	Single cell holder(round or square cuvette)
M8001-600	10-100nm Sample compartment versatile.
P0000000	Thermal printer



