

# avans AgileSpec UV/Visible traditional spectrophotometer

AgileSpec is an accurate and reliable instrument designed for quality control, research, and teaching requirements. The split beam optical design allows AgileSpec to measure samples with enhanced 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. AgileSpec can be used either as a stand-alone instrument or as a PC-controlled instrument. Users will have the flexibility to save the data into Excel format. Equipped with a variety of measurement modes and numerous functions, the AgileSpec enables you to perform a wide range of applications.

## Features :

- ❑ Split Beam (internal double beam design) UV/Vis spectrophotometer covering 190-1100nm (2.0nm bandwidth)
- ❑ High performance optical design for reliability and easy maintenance
- ❑ Light source saving: The UV and Visible light source will automatically switch to save lamp life and cost.
- ❑ The Deuterium will only be turned on when the instrument is scanning samples in the UV range
- ❑ Enhance features on AgileOp PC software
- ❑ Fast and easy to interchange accessories

## Measure Modes :

- ⊙ Photometry
- ⊙ Spectrum
- ⊙ Time-scan
- ⊙ Kinetic
- ⊙ Quantitative
- ⊙ Biomethod Mode – Capable of analyzing DNA and proteins using the following methods :  
DNA& RNA: 260nm/280nm ratio, 230nm/260nm, Warburg-Christian Concentration, and General Ratio and Concentration  
Protein : Bradford Protein Analysis, Lowry Protein Analysis-High Sensitivity, Lowry Protein Analysis-Low Sensitivity, Biuret protein Analysis, Direct UV Method, Colloidal Gold, and Bicinchoninate(BCA)



ASP-1100

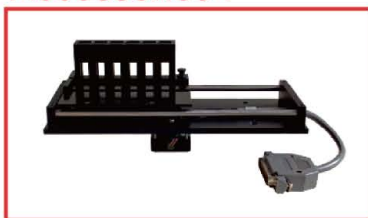
## Specification :

Model Number	ASP-1100
Optical Design	Split Beam (internal double beam design)
Light Source	Deuterium and Halogen lamp, auto switching at 320~360nm
Detector	Silicon photodiode
Wavelength Range	190~1100nm
Bandwidth	2.0nm
Wavelength Accuracy	+/-0.5 nm
Wavelength Repeatability	+/-0.2 nm
Photometric range	-0.300~4.000A 0.0~300%T 0.000~39996C
Measurement range	Absorbance Transmittance (%T) Concentration
Photometric accuracy	+/- 0.004Abs at 1.00Abs
Baseline flatness	+/-0.002Abs(210~1100nm)
Noise level	+/-0.0001Abs (500nm)
Stability	<0.0003Abs/hr at 500nm after 1hr 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 light
Interface	RS232 and parallel port
PC software	AgileOp PC software
Power	100~240V at 50/60Hz
Dimension	506(W) x 430(D) x 220(H) mm
Weight	18Kg

## Standard Configuration :

Cat. No.	Description
ASP-1100	UV-Visible Spectrophotometer, includes analysis software and automatic 6-cell holder(ASP-1100-M)

## Accessories :



**ASP-1100-M**  
6-cell holder unit



**ASP-1100-N**  
Single cell holder for 10mm path length cuvette or 10-13 mm diameter test tube



**ASP-1100-R**  
Rectangular cell holder for 10-100mm path length cuvette



**ASP-1100-TE**  
Thermo electric cell holder:  
Electronic type temperature control unit for single cell holder



**ASP-1100-TF**  
Thermo fluid cell holder:  
Water circulation temperature control unit for single cell holder 10mm light path



**ASP-1100-S**  
Sipper unit