



Biometrics  
Quality of life

# Spectrophotometer

## Single and Double Beam System



The UV-VIS Spectrophotometer is designed to meet high requirement for precision measurement in the research and development of organic chemistry, biochemistry, medical testing, food testing, pharmaceutical industry, environmental protection, water testing and so on. The latest technology and optical system ensure high accuracy and the best stability of the instrument.

### Feature of Spectrophotometer Single Beam System

- Unique optical system 1200 lines/mm grating
- Able to store 200 test data and 100 standard curves
- Plug type deuterium lamp and tungsten lamps without optics debugging
- Instrument control: Standalone and PC software
- Validation software 21 CFR Part 11 (option)

### Feature of Spectrophotometer Double Beam System

- Internal memory size 1024 MB for data results and standard curves
- Data transfer using USB and SD card storage, easily export to excel format
- Automatic light source switching
- Instrument control: Standalone and PC software
- Validation software 21 CFR Part 11 (option)



#### VIS 800

- Single beam system
- Wavelength range : 320-1100 nm
- Lamps : Tungsten Halogen
- Spectral bandwidth : 2 nm
- Measuring mode : photometric, quantitative, system setup
- The PC software expands the function of multi-wavelength, kinetics, DNA/protein and wavelength scanning
- Working control : Keypad

#### UV 800

- Single beam system
- Wavelength range : 190-1100 nm
- Lamps : Deuterium and Tungsten Halogen
- Spectral bandwidth : 2 nm
- Measuring mode : photometric, quantitative, system setup
- The PC software expands the function of multi-wavelength, kinetics, DNA/protein and wavelength scanning
- Working control : Keypad

## Standalone Control:

User can use standalone mode with a large display color touch screen for UV 800TS, UV 900P and UV 900PV and all functions are included. Meanwhile, keypad control for VIS 800 and UV 800 with the function of photometry and quantitative modes.



### Photometric Mode

-Measurement mode: absorbance (Abs), transmittance (%T) with single wavelength setting



### Quantitative Mode

-The maximum point of the standard curve is 10 points  
-Real-time display of standard curve  
-The unit concentration: mg/L, ug/mL, ppm, ppb, mg/L, g/L...etc



### Multi-Wavelength Program Mode

-Measurement mode: absorbance (Abs) and transmittance (%T)  
-Maximum number of wavelength setting is 8 wavelengths



### Wavelength Scan / Spectrum Scan Mode

-Wavelength range : 190-1100 nm  
-Interval: 0.1, 0.2, 0.5, 1.0, 2.0 and 5.0 nm  
-Scan speed: Fast, Medium, Slow



### DNA/Protein Mode

-Testing and calculation of DNA and Proteins concentration at wavelength 230, 260, 280 and 320 nm



### Kinetics Mode

-Measure absorbance (Abs) and transmittance (%T) change as function time  
-Maximum time: 9999 sec (166 min)

## The PC Control:

This software allows save the data, recall the data, analyze your data, and print out the data using the favorable program. All working modes photometry, multi-wavelength, wavelength scan, quantitative, DNA, and kinetics are encompassed in the software.

### Measurement Software Screen

The UV professional software is evident and uncomplicated design measurement results make it easy to read.

### Easily Report Print-out

Print from the measurement window with one click.

### Easy Transfer of Result Data

Users can export result data in text format, and import for analysis in other software, such as Excel.



### Built-in Thermal Printer

The UV 900P/PV has come with a thermal printer that prints standard curves and test results directly.



## UV 800TS

- Single beam system
- Wavelength range : 190-1100 nm
- Lamps : Deuterium and Tungsten Halogen
- Spectral bandwidth : 2 nm
- Measuring mode : photometric, quantitative measurement, multi-wavelength, kinetics, DNA/protein measurement and wavelength scanning
- Working control : Touch Screen

## UV 900P/ UV 900PV

- Double beam system
- Wavelength range : 190-1100 nm
- Lamps : Deuterium and Tungsten Halogen
- Spectral bandwidth : 1 nm (UV 900P) and 0.5, 1, 2, 4, 5 nm (UV 900PV)
- Measuring mode : photometric, quantitative measurement, multi-wavelength, kinetics, DNA/protein measurement and wavelength scanning
- Working control : Touch Screen
- Built-in Thermal printer

## Accessories for Various Application



Manual four Long-path cell holder  
(For single beam system)



Single hole film holder  
(For double beam system)



Test tube holder



Long-path cell holder  
(For double beam system)



Automatic eight cell holder



Adjustable XY micro cell holder



Multi-purpose cell holder



Manual four position film holder  
(For single beam system)



Integrating sphere



Sipper flow system /  
Sipper flow system with Peltier

## Product Information

P/N	Product Description
AI-08018-110	VIS 800 Spectrophotometer
AI-08018-120	UV 800 Spectrophotometer
AI-08018-130	UV 800TS Spectrophotometer
AI-08018-160	UV 900P Spectrophotometer
AI-08018-170	UV 900PV Spectrophotometer

### Your local distributor



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