



## Spectrophotometer Single Beam System

VIS 800  
UV 800  
UV 800TS

• Easy to Operate • Accurate Result • Cost Effective



## Product Description

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.

## Instrument Features

- Unique optical system 1200 lines/mm grating
- Standalone software function: Photometric, Quantitative measurement, System setup.
- The optional PC software expands the function of Multi-wavelength, Kinetics, DNA/Protein measurement and Wavelength Scanning for model VIS 800 & UV 800
- In UV 800TS, all function is included in standalone software
- Able to store 200 test data and 100 standard curves in the instrument
- Plug type deuterium lamp and tungsten lamps without optics debugging
- Working control: Keypad (VIS 800/UV 800) and Touch Screen (UV 800TS)
- Instrument control: Standalone and PC software
- Validation software 21 CFR Part 11 (option)





### Standalone Control:

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



### 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.

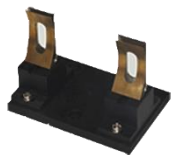
## Product Specification

Model	VIS 800	UV 800	UV 800TS
Wavelength Range	320-1100 nm	190-1100 nm	
Lamps	Tungsten Halogen	Deuterium & Tungsten Halogen	
Spectral Bandwidth	2 nm		
Wavelength Accuracy	±0.5 nm		±0.3 nm
Wavelength Repeatability	±0.2nm		±0.1nm
Photometric Accuracy	±0.3%T (0-100%T), ±0.003A (0-0.5A), ±0.004A (0.5-1A)	±0.3%T (0-100%T), ±0.003A (0-0.5A), ±0.004A (0.5-1A)	±0.2%T (0-100%T), ±0.002A (0-0.5A), ±0.004A (0.5-1A)
Photometric Repeatability	±0.2%T (0-100%T), ±0.002A (0-0.5A), ±0.003A (0.5-1A)	±0.2%T (0-100%T), ±0.002A (0-0.5A), ±0.003A (0.5-1A)	±0.15%T(0-100%T), ±0.001A (0-0.5A), ±0.002A (0.5-1A)
Photometric Range	0-200%T, -0.3 to 3A, 0-9999C		0-200%T, -3 to 3A, 0-9999C
Noise	≤ 0.001A at 500 nm		≤ 0.0005A at 500 nm
Baseline Stability	±0.002 A/h at (500 nm) after lamp turn on for 1 hour		±0.0005 A/h at (500 nm) after lamp turn on for 1 hour
Baseline Flatness	±0.002A		
Stray Light	≤0.03%T at 220 nm (NaI), 340 nm (NaNO <sub>2</sub> )		≤0.02%T at 220 nm (NaI), 340 nm (NaNO <sub>2</sub> )
Display	128*64 Dots LCD		10.1" TFT Colored Capacitive Touch Screen
Data Output Port	USB		USB Host/USB Drive/RS232/ SD Card
Detector	Silicon Photodiode		
Power	AC 110-230 V / 50-60 Hz		
Wavelength Setting	Auto		
Sample holder	4 cells manual holder (size 10 mm)		
Dimension (W x D x H)	460 x 360 x 180 mm		590 x 475 x 250 mm
Weight	14 kg		20 kg

## Accessories for Various Application



Manual four Long-path cell holder



Single hole film holder



Test tube holder



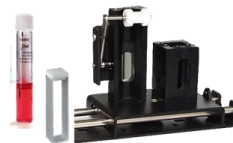
Long-path cell holder



Automatic eight cell holder



Adjustable XY micro cell holder



Multi-purpose cell holder



Manual four position film holder



Integrating sphere



Sipper flow system /  
Sipper flow system with Peltier

## Scope of Supply

- Spectrophotometer 1 set
- 10 mm glass cuvette 1 set (4 pcs)
- 10 mm quartz cuvette 1 set (2 pcs)  
(For UV 800 and UV 800TS)
- USB connection and power cable
- User manual
- Software and dongle key

## Product Information

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



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