

## Features:

- ⊙ Large LCD screen(480\*272 Dots) with 65 thousand true color and support U disk data saving
- ⊙ Imported & Environmental Deuterium lamp, preventing from Ozone inhalation
- ⊙ Data output: Data can be exported to U disk (USB Output)
- ⊙ Print port: Instrument can connect PCL printer for printing A4 paper (USB Port)
- ⊙ Adopted high-class grating with wholly hermetic light path design, to ensure the instrument has the super low stray light
- ⊙ Upgrade package can be downloaded from AOE web with S/N, support U disk one-key upgrade
- ⊙ Real-time monitoring the lifetime of Deuterium lamp and Tungsten lamp with advanced system
- ⊙ Pre-aligned design ensures the user can change lamps conveniently
- ⊙ With GLP self-check function, check the wavelength accuracy and Photometry accuracy, can provide test report and power-off protection
- ⊙ Wavelength calibration, wavelength setting, change lamp source and dark current calibration automatically
- ⊙ With SiO<sub>2</sub> coating optical mirror, reducing the pollution from outside fully



## Basic Functions:

### 1. Photometry (Basic)

Test Abs., Transmittance and Energy by fixed wavelength

### 2. Quantitative (Qty)

Linear fit and Linear fit through zero two modes

- a. Coefficient, Standard Sample input and Standard Sample read three modes to establish standard curve
- b. Establish  $A=K1 \cdot C+K0$ , can search original data, graph curve, parameters settings
- c. Can save 240 group curves, can test 240 data in each curve
- d. Double wavelength, Triple wavelength test functions.

### 3. Kinetics (Kins)

Used for time course scanning or reaction rate calculations  $\Delta A/t$ , can search all data

### 4. Multi-Wavelength (MultWL)

Can test Transmittance and Abs. with 8 different wavelengths at most

### 5. Spectrum (Spec)

User can set the scan range from 190nm to 1100nm to test the max. Abs. peak value, can do derivation, arithmetical operations to the graph.

### 6. BIO (DNA/Protein) Optional:

## Specifications

Model	UV-1900 UV-1900PC	V-1900 V-1900PC
Optical System	Single Beam, Grating 1200 lines/mm	
Wavelength Range	190-1100nm	320-1100nm
Spectral Bandwidth	2nm	
Wavelength Accuracy	±0.5nm	
Wavelength Repeatability	≤ 0.2nm	
Photometric Accuracy	± 0.002A (0-0.5Abs), ± 0.004A (0.5-1.0Abs), ± 0.5% T (0-100% T)	
Photometric Repeatability	0.001Abs (0-0.5Abs), 0.002Abs (0.5-1.0Abs), ≤ 0.2% T (0-100% T)	
Stray Light	≤ 0.04 % T @ 360nm; 220nm	≤ 0.04 % T @ 360nm
Stability	± 0.001A / h @ 500nm	
Baseline Flatness	± 0.002A	
Noise	0.0005Abs @ 500nm	
Display	65 thousand ture color TFT LCD (480*272)	
Photometric Mode	T, A, C, E	
Photometric Range	0-200%T, -0.301-3.0A	
Detector	Silicon Photodiode	
Light Source	Deuterium Lamp, Tungsten Lamp	
Input	Membrane Keypad	
Output	USB-A* 2 Print and data output USB-B Connect PC	
Compartment	Optional 8 Auto Cell holder, Solid Sample Holder, Micro Cell Holder, 10-100mm Cell	