

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 SiO₂ coating optical mirror, reducing the pollution from outside fully
- Optional PC Software to expand the applications to Quantitative, Multi-Wavelength and Kinetics, Spectrum Scanning, DNA/Protein test



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

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

Specifications

Model	UV-1800 UV-1800PC	UV-1600 UV-1600PC	V-1800 V-1800PC	V-1600 V-1600PC
Optical System	Single Beam, Grating 1200 lines/mm			
Wavelength Range	190–1100nm		320–1100nm	
Spectral Bandwidth	2nm	4nm	2nm	4nm
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	0.0005A			
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			