

Features:

- Large LCD screen (480*800) 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



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 (MultiWL)

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)

DNA/Protein. (Optional: UV, Lowry, BCA, CBB and Biuret)

Specifications

| Model | A360 A360PC | A380 A380PC | A390 A390PC |
|---------------------------|---|----------------|-------------------|
| Optical System | Single Beam, Grating 1200 lines/mm | | |
| Wavelength Range | 190–1100nm | | |
| Spectral Bandwidth | 1.8nm | 1nm | 0.5, 1, 2, 4, 5nm |
| Wavelength Accuracy | ± 0.3 nm | | |
| Wavelength Repeatability | ≤ 0.2 nm | | |
| Photometric Accuracy | $\pm 0.002A$ (0–0.5Abs), $\pm 0.004A$ (0.5–1.0Abs), $\pm 0.3\%$ T (0–100% T) | | |
| Photometric Repeatability | 0.001Abs (0–0.5Abs), 0.002Abs (0.5–1.0Abs), $\leq 0.1\%$ T (0–100% T) | | |
| Stray Light | $\leq 0.04\%$ T @ 360nm; 220nm | | |
| Stability | $\pm 0.001A / h$ @ 500nm | | |
| Baseline Flatness | $\pm 0.0015A$ | | |
| Noise | 0.0004Abs | | |
| Display | 65 thousand true color 7 inch TFT LCD(480*800) | | |
| 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 Holder | | |