

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
 - 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 (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 | A580 A580PC | A580 A580PC | A590 A590PC |
|---------------------------|---|----------------|-------------------|
| Optical System | Double Beam, Grating 1200 lines/mm | | |
| Wavelength Range | 190-1100nm | | |
| Wavelength Range | 1.8nm | 1nm | 0.5, 1, 2, 4, 5nm |
| Wavelength Accuracy | ±0.3nm | | |
| Wavelength Repeatability | ≤ 0.2nm | | |
| Photometric Accuracy | ± 0.002A (0-0.5Abs), ± 0.004A (0.5-1.0Abs), ± 0.3% T (0-100% T) | | |
| Photometric Repeatability | 0.001Abs (0-0.5Abs), 0.002Abs (0.5-1.0Abs), ≤ 0.1% T (0-100% T) | | |
| Stray Light | ≤ 0.03% T @ 360nm;220nm | | |
| Stability | ± 0.0003A / h @ 500nm | | |
| Baseline Flatness | ± 0.0005A | | |
| Noise | 0.0002Abs | | |
| 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 | | |