

## SPECTROPHOTOMETER



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ANALYTICAL EXCELLENCE...

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### Scanning UV / VIS Spectrophotometer

#### FEATURES:

- Environmental Deuterium lamp
- Socket-type Deuterium -and Tungsten lamp
- SiO<sub>2</sub> coating optical mirror, reducing outside pollution
- GLP self-check function: check wavelength- and Photometry accuracy, provides test report and power-off protection
- Wavelength calibration, wavelength setting, change lamp source and dark current calibration automatically

#### BASIC FUNCTIONS:

- Photometry
  - Test Abs, Transmittance and Energy by fixed wavelength
- Quantitative
  - 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  $A=K1*C+K0$ , can search original data , graph curve, parameter settings
    - c. Can save 240 group curves, can test 240 data in each curve
    - d. Double wavelength, triple wavelength test functions



- Kinetics
  - Used for time course scanning or reaction rate calculations  $\Delta A/t$ , can search all data
- Multi-Wavelength
  - Can test transmittance and Abs. with 8 different wavelengths at most
- Scanning
  - The scan range can be set from 190nm to 1100nm to test the max. Abs peak value, can do derivation, arithmetical operations to the graph
- Biology
  - DNA/Protein (Optional: UV, Lowry, BCA, CBB and Biuret)

**MODEL SPECIFICATIONS:**

Model	MA-S360	MA-S380	MA-S390
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	±0.3nm		
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	≤0.04% T @ 360nm; 220nm		
Stability	±0.001A/h @ 500nm		
Baseline Flatness	±0.0015A		
Noise	±0.0004Abs		
Display	65 thousand true colour 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- and Tungsten Lamps		

Input	Membrane Keypad
Output	USB-A*2 print and data output; USB-B connect PC
Standard Accessories	1cm glass cuvette*4, 1cm quartz cuvette*2, 1cm quadruple cuvette holder, scanning software
Optional Accessories	1cm standard single slot cuvette holder, long optical path cuvette holder, cuvette, micro cuvette, test tube type absorber rack, solid sample holder, Deuterium lamp, Tungsten lamp, quadruple cuvette holder, 4-slot water bath type constant temperature absorption pool, printer, X-Y adjustable micro absorption pool, single bath type constant temperature absorption pool, program controlled thermostatic absorption pool seat, 8 racks, reflection accessories
Power Supply	AC110/220V±10%, 60/50Hz
Package Size (W*D*H*) mm	740*570*440
Gross Weight (kg)	25