



+27 60 999 9140

info@microanalytica.co.za

489 Jacqueline Drive, Garsfontein  
Pretoria, Gauteng, 0081

ANALYTICAL EXCELLENCE...

[www.microanalytica.co.za](http://www.microanalytica.co.za)

UV / VIS Spectrophotometer MA-UV1800 MA-UV1800PC / MA-UV1600 MA-UV1600PC / MA-V1800 MA-V1800PC / MA-V1600 MA-V1600PC

#### FEATURES:

- SiO<sub>2</sub> coating optical mirror, reducing outside pollution
- Wavelength calibration, wavelength setting, change lamp source and dark current calibration automatically
- GLP self-check function: check wavelength accuracy and Photometry accuracy
- PC Software expands the applications to Quantitative, Multi-Wavelength and Kinetics, Spectrum Scanning, DNA/Protein test for PC Series

#### BASIC FUNCTIONS:

- Photometry
  - Test Abs, Transmittance and Energy by fixed wavelength
- 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
- 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



**MODEL SPECIFICATIONS:**

Model	MA-UV1800 MA-UV1800PC	MA-UV1600 MA-UV1600PC	MA-V1800 MA-V1800PC	MA-V1600 MA-V1600PC
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 true colour 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			
Standard Accessories	1cm glass cuvette*4, 1cm quartz cuvette*2, 1cm quadruple cuvette holder*1, scanning software (only for PC type)		1cm glass cuvette*4, 1cm quadruple cuvette holder*1, scanning software (not for PC type)	

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, general application software or scanning software			
Power Supply	AC110/220V±10%, 60/50Hz			
Package Size (W*D*H*) mm	620*500*370	620*500*370	620*500*370	620*500*370
Gross Weight (kg)	18	18	16.5	16.5