

Specifications

Model	V-1600 V-1600PC	V-1800 V-1800PC	UV-1600 UV-1600PC	UV-1800 UV-1800PC
Wavelength Range	320-1100nm		190-1100nm	
Spectral Bandwidth	4nm	2nm	4nm	2nm
Optical System	Single Beam, Grating 1200 lines/mm			
Wavelength Accuracy	±0.5nm			
Wavelength Repeatability	0.3nm			
Photometric Accuracy	≤±0.5%T or ±0.003A@1A			
Photometric Range	0-200%T, -0.3 - 3A, 0-9999Conc			
Stray Light	≤0.05%T@360nm		≤0.05%T@220 360nm	
Stability	±0.002A/h @500nm			
Display	Graphic LCD (128*64 dots)			
Keyboard	22 Membrane keypad			
Standard Cell Holder	Standard 10mm pathlength cuvette			
Sample Compartment	4-position 10mm cell changer			
Light Source	Tungsten lamp		Tungsten & Deuterium lamp	
Output	USB Port & Parallel Port (Printer)			
Power Requirement	AC 110/220V 50/60Hz			
Dimensions(L*W*H)	470*373*187mm			
Weight	12kg		14kg	

1600/1800 Series are simple-to-use instruments with advanced performance, its stray light is only 0.05%T. The local stand-alone software provides functions of Photometry, Quantitative Test, Kinetics and System Utilities functions.

Features

1. Large LCD screen (128*64 Dots).
2. System can also save the test results, total 200 groups of data 200 standard curves can be saved in the RAM. Convenient for check and reload.
3. Data can be restored after a sudden power cut.
4. Auto setting wavelength.
5. Tungsten lamp & Deuterium lamp can be turned on/off individually to extend lifetime.
6. The optional application software *M. Wave Professional* provides complete control of the spectrophotometer from a computer through the Built-in USB port. It can expand to the following functions: Quantitative, Kinetics, Wavelength Scan, Multi-wavelength & DNA/Protein Test.
7. Pre-aligned design makes it convenient to change lamps.
8. Large sample compartment, it can accommodate 5-100mm path length cuvettes with optional holders. A variety of optional accessories are available.

Functions

1. Photometry
Absorbance, Transmittance or Energy measurements. It can display and save 200 groups of data, 5 groups per screen.
2. Quantitative
2.1. Standard Curve
At most, 9 standard samples can be used to establish a standard curve. The curve and its equation will be displayed on the screen simultaneously. You can measure your unknown concentration solutions by the curve. Total 200 curves can be saved in the Memory.
2.2. Coefficient Method
If the coefficient k & b in the formula $C=k*a + b$ is known, you can input them directly by the button, and then test your unknown solutions.
3. Kinetics
This mode may be used for time course scanning or reaction rate calculations. Abs. VS Time graphs is displayed on the screen in real time. It can most record 1000 data.
4. System Utilities
Lamp management, time & date set, obtain dark current, calibrate wavelength, default system, and some other system functions.



V-1600/UV-1600
V-1800/UV-1800

UV / VIS Spectrophotometer

Mapada 1600/1800 Series Local Control Software

Main Menu

Move the cursor on the function menu you want, then press ENTER key to go into the corresponding interface.

<input checked="" type="radio"/> Basic Mode	
<input type="radio"/> Quantitative	
<input type="radio"/> Kinetics	08:00
<input type="radio"/> Utility	01/01

1. Basic Mode

Absorbance, Transmittance or Concentration measurements. It can display and save 200 groups of data, 5 groups per screen.

546.0nm		0.001A
No.	WL.	Abs.
1	230.0	0.001
2	340.0	0.000
3	450.0	0.002
4	540.0	0.000
5	620.0	0.003

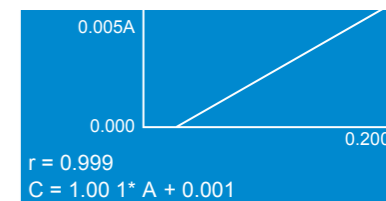
2. Quantitative

2.1 Standard Curve

At most 9 standard samples can be used to establish a standard curve. The curve and its equation will be displayed on the screen simultaneously. You can measure your unknown concentration solutions by the curve. Total 200 curves can be saved in the RAM.

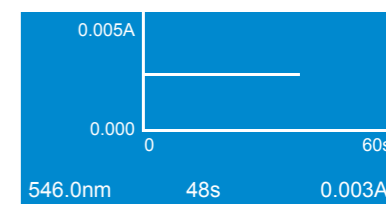
2.2 Coefficient Method

If you have known the coefficient $K*a + b$ is known, you can input them directly by the button, and then test your unknown solutions.



3. Kinetics

This mode may be used for time course scanning or reaction rate calculations. Abs. VS Time graphs is displayed on the screen in real time. It can most record 1000 data.



4. System Utilities

Lamp management, time & date set, obtain dark current, calibrate wavelength, default system, and some other system functions.

<input checked="" type="radio"/> Utility	
<input checked="" type="radio"/> D2 Lamp	On/Off
<input type="radio"/> W Lamp	On/Off
<input type="radio"/> Printer	