



## SPECTRO V-16/UV-16/V-18/UV-18 Series

MRC 16/18 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.

Model	SPECTRO-V16 SPECTRO-V16PC	SPECTRO-V18 SPECTRO-V18PC	SPECTRO-UV16 SPECTRO-UV16PC	SPECTRO-UV18 SPECTRO-UV18PC
<b>Wavelength range</b>	320-1100nm		190-1100nm	
<b>Spectral bandwidth</b>	4nm	2nm	4nm	2nm
<b>Optical system</b>	Single beam, grating 1200 lines/mm			
<b>Wavelength accuracy</b>	±0.5nm			
<b>Wavelength repeatability</b>	0.3nm			
<b>Photometric accuracy</b>	≤±0.5%T or ±0.003A@1A			
<b>Photometric range</b>	-0.3 -3A, 0-200%T, 0-9999Conc.			
<b>Stray light</b>	≤0.05%T@360nm		≤0.05%T@220nm, 360nm	
<b>Stability</b>	±0.002A/h @500nm			
<b>Display</b>	Graphic LCD(128*64dots)			
<b>Keyboard</b>	22 membran keypad			
<b>Standard cell holder</b>	Standard 10mm pathlength cuvette			
<b>Sample Compartment</b>	4-position 10mm cell changer			
<b>Light source</b>	tungsten	tungsten & Deuterium lamp		
<b>Output</b>	USB Port & parallel port (printer)			
<b>Power requirement</b>	AC 110/220V 50/60Hz			
<b>Dimensions (WxDxH)</b>	470x370x180mm			
<b>Weight</b>	12kg		14kg	

### Features:

- Large LCD screen(128x64 Dots)
- System can also save the test results, total 200 groups of data 100 standard curves can be saved in the RAM. Convenient for check and reload.
- Data can be stored after a sudden power cut.
- Auto setting wavelength.
- Tungsten lamp & deuterium lamp can be tuned on/off individually to extend lifetime.
- 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.

- Pre-aligned design makes it convenient to change lamps.
  - Large sample compartment, it can accommodate 5-100mm path length cuvettes with optional holders. A variety of optional accessories are available.
- Include basic software, 10mm 4 cell Holder 4xGlass 10mm cuvette.

### MRC 16/18 Series Local Control Software



Main Menu

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

Basic Mode



Quantitative



Kinetics



System Utilities

### M.Wave Professional PC-Control Software

M.Wave Professional application software is based Microsoft Windows, the instrument can be controlled by PC software through the built-in USB communication port, which makes the UV11 Series with more functions and easy to control.



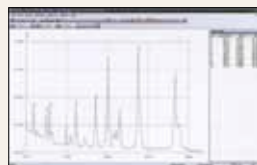
#### Quantitative:

Use up to 20 standards to establish standard curve. Three methods for fitting a curve:  
1-Linear fit 2-Linear through zero 3-Square fit



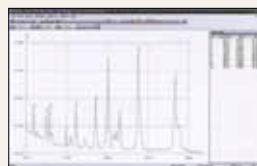
#### Kinetics:

The Kinetics mode may be used for time course scanning or reaction rate calculations. Abs. Vs. Time graphs is displayed.



#### Wavelength Scan:

Automatically records peaks and valleys. The quantity of the curves stored is unlimited. Post-run manipulation & processing includes. Re-scaling axes, curve. Smoothing, combination, zooming, overlap... 1st to 4th derivative.



#### Multi-wavelength Test

You can set up to 20 wavelengths to measure a sample.



#### DNA/Protein Test:

Optional two formulas: DNA Concentration =  $62.9 \cdot A_{260} - 36.0 \cdot A_{280}$  Or  $49.1 \cdot A_{260} - 75.8 \cdot A_{230}$   
You can also enter other wavelengths and factors to calculate.