

UV / VIS Spectrophotometer EMC-16 series

EMC-16 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:

- Large LCD screen (128*64 Dots)
- 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.
- Data can be restored after a sudden power cut
- Auto setting wavelength
- Tungsten lamp & Deuterium lamp can be turned on/off individually to extend lifetime
- Pre-aligned design makes it convenient to change lamps
- Large sample compartment, it can be accommodate 5-100 mm path length cuvettes with optional holders. A variety of optional accessories are available
- The 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:
I. Quantitative, II. Kinetics, III. Wavelength Scan, IV. Multi Wavelength, V. DNA/Protein



Functions:

1. Photometry, 2. Quantitative, 3. Kinetics, 4. System Utilities

Model	EMC-16PC-V	EMC-16PC-UV
Wavelength Range	320-1100 nm	190-1100 nm
Spectral Bandwidth	4 nm	
Optical System	Single Beam, grating 1200 lines/mm	
Wavelength Accuracy	±0.5 nm	
Wavelength Repeatability	0.3 nm	
Photometric Accuracy	≤±0.5 % T or ±0.003A@1A	
Photometric Range	0-200 % T, -0.3 - 3A, 0-9999 Conc.	
Stray Light	≤0.05 % T@360 nm	≤0.05 % T@260, 360 nm
Stability	±0.002A/h @500 nm	
Display	Graphic LCD (128+64 dots)	
Keyboard	22 Membrane keypad	
Standard Cell Holder	4-position 10 mm cell changer	
Sample compartment	Standard 10 mm path length cuvette	
Light Source	Tungsten lamp	Tungsten & Deuterium lamp
Output	USB Port & Parallel Port (Printer)	
Power Requirement	AC 110/220V 50/60 Hz	
Dimensions (LxWxH)	470 x 373 x 187 mm	
Weight	12 kg	14 kg

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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



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

A most 9 standard sample 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

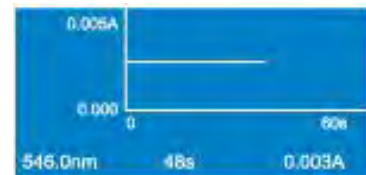
2.2 Coefficient Method

If the coefficient k & b in the formula $C=k \cdot A + b$ 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 calculation. Abs. VS Time graphs is displayed on the screen in real time. It can most record 1000 data.



4. System Utilities

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

