

ChromTech 16/18 Series Spectrophotometer



ChromTech 16/18 Series are developed for precise test, its stray light is only 0.05%T. They are flexible, easy-to-use and maximize value. The value is evident from the performance provided every day. The local stand-alone software provide functions of Basic Mode, Quantitative Test, Kinetics and system utilities.

Features

1. Large LCD screen (128x64bits).
Can display total 200 groups of data, 5 groups per screen. Can display standard curve and the kinetics curve.
2. System can also save the test results, total 200 groups of data and 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 Mapada application software provides complete control of the spectrophotometer from a computer through the Built-in USB port.
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 under your choice.
9. Can upgrade to wavelength scan models when connected to PC via ChromTech software based on Windows®.

Specifications

Model	V-1600	V-1800	U V-1600	U V-1800
Wavelength Range	320-1100nm		190-1100nm	
Spectral Bandwidth	4nm	2nm	4nm	2nm
Optical System	Single Beam, Grating 1200lines/mm			
Wavelength Accuracy	±0.5nm			
Wavelength Repeatability	0.3nm			
Photometric Accuracy	±0.3% T			
Photometric Repeatability	±0.2% T			
Photometric Range	-0.3-3A , 0-200% T			
Stray Light	0.05% T@ 360nm		0.05% T@ 220nm,340nm	
Stability	±0.002A/h @ 500nm			
Display	Graphic LCD (128X64 dots)			
Keyboard	22 Membrane keypad			
Sample Compartment	Standard 10mm pathlength cuvette			
Light Source	Tungsten lamp		Tungsten & Deuterium	
Output	USB Port		Parallel Port (printer)	
Power Requirement	AC 220V/50Hz or AC 110V/60Hz			
Dimensions (W x D x H)	470 x 370 x 180mm			
Weight	14kg		14kg	

ChromTech 16/18 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.

● Basic Mode	
○ Quantitative	
○ Kinetics	08:00
○ 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

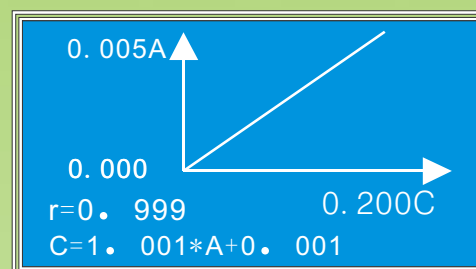
2. Quantitative

i) Standard Curve

At most 9 standard samples can be used to establish a standard curve, the curve and the curve equation will display on the screen simultaneously. You can measure your unknown concentration solutions by the curve.

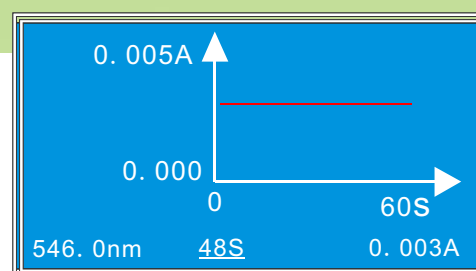
ii) Coefficient Method

If you have known the coefficient k & b of the formula $C=kA+b$, you can input the value directly by the button, then to 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. Test time up to 120,000 seconds may be set.



4. System Utilities

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

√ Utility
● D2 Lamp on/off
○ W Lamp on/off
○ Printer