





EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net



Product Description:

the UV-Vis spectrophotometer adopts Xenon flash lamp as light source, which can be used for 7 years. The latest ARM system and long optical system ensure high accuracy and good stability of the instrument. They are the best choice of high quality spectrophotometer.

Feature

- Imported Xenon lamp makes the instrument more fast & convenient. it can be operated immediately after staring without preheating.
- the in-house massive memory is capable of saving up to 1024M for test data & working curves. It supports USB storage. The USB port can be used for data transfer, which is easily exported to Excel for further processing, analysis and storage.
- Powerful functions like Photometric measurement, Quantitative measurement, Kinetics, Spectrum scan, DNA\Protein test, multi-wavelength test, etc
- Large room for samples can hold cuvettes of various specifications.
- Auto 8-cell holder is optional.
- 21 CFR Management software is optional.

Specifications:

Model	3080	3080F	3080TS	3090	3090F	3090TS	
Picture		7				1	
Optical System	Double beam Grating with at least 1200 line/mm, blazed at 240nm, with modified ebert Design.						
Wavelength Range	190-1100 nm						
Spectral Bandwidth	2nm	1nm	0.5/1/2/4/5	2nm	1nm	0.5/1/2/4/5 nm(variable)	
Wavelength Accuracy	±0.1nm						
Wavelength Repeatability	<=0.1nm						
Photometric Accuracy	1Abs : ±0.0011 Abs, 2Abs: ±0.0014						
Photometric Repeatability	1Abs : ±0.0025 Abs						
Photometric Range	-3~3Abs,at 0-400%T;						
	<1% at 198nm(KCL)						
Stray Light	≤0.06%T, at 220nm(Nal)						
	≤0.04%T, at 340nm(NaNO₂)						
Drift	<0.00013A/hr						

02



Noise		±0.00005Abs						
Stability	±0.0005A/h@50)0nm	±0.0003A/h @500 nm					
Baseline Flatness	±0.0002A		±0.0003A	±0.001A				
Work mode	T, A, C, E							
Data intervals	0.05, 0.1, 0.5, 1, 2, 5,10							
Scanning speed	Fast, Mid, Slow <1 to							
Wavelength setting	4000nm/min Auto							
Display	7" color LC		10.1" color touch LCD					
Light Source	Xenon flash lamp, D2 Lamp, Halogen lamp, Tungsten Halogen lamp, LED							
Detector	Silicon Photodiode							
Output	USB/RS232							
Power	AC 220V/50Hz or AC 110V/60Hz							
Dimension	590 x 475 x 250mm	760*560*280mm	590 x 475 x 250mm	760*560*280mm				
Net Weight	20kg	28kg	20kg	28kg				
Shipping Size	770*630*340mm	950*750*420mm	770*630*340mm	950*750*420mm				
Gross Weight	27kg	36kg	27kg	36kg				

WUV SPECTRA TM Control Software:

The Analytical windows based PC application software UV/Vis analyst takes the best features of the standalone version plus more powerful data processing. Expanded data collection and storage capability. It comes standard with Analytical PC models and is optional to stand alone models.

The PC application software offers: Photometric Mode, Quantitative test (standard curve), Wavelength Scan, Kinetics, DNA/Protein, Multi-Wavelength, System Utility

6-Cell turret, operating software with latest configuration, automatic monitor power-off time setting function, Intelligent start function etc. Scale changing, Trace, Statistical calculation, Spectrum overwriting, Peak detection Smoothing, Differentiation, Area calculation, Rate calculating, nucleic acid etc.

File or report output in CSV format Data/measurement condition saving functions, file search function, Wavelength calibration, Lamp usage time monitoring, Sample chamber opening/closing detection, Performance evaluation. Performance evaluation using mercury lamps, Maintenance history storage

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UV SPECTRA [™] Control Software

5.

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The PC application software offers:

- 1. Photometric Mode
- Quantitative tast (standard curve) 2
- 3. Wavelength Scan

Multi-Wavelength 6

7.

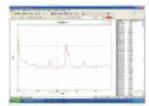
4 Kinetics System Utility

DNA/Protein



Use up to 20 standards to establish standard curve. Four methods for fitting a curve: 1. Linear fit 2. Linear through zero 3. Square fit 4. Cubic fit

Quantiative tast (standard curve)



wavelength scan

Automatically record peaks and valleys. The quantity of channels is unlimited. You can simultaneously store as many as desired. Post run manipulation and processing includes:

- 1. Re-Scaling axes, curve 2. 1st to 4th derivative
- 3. Smoothing, combination, zooming, overlap.

Optional Accessories



4-Cell Holder For 10mm Swu.Cuvette



Cell Changer

8 - Position Auto





Solid Sample Holder (single Cell)



4-Cell Holder For 100mm Swu.Cuvette



10mm Water jacketed 4 Cell Holder

Square Cuvettes Glass

Cylindrical

Cell Holder



10mm, 20mm, 30mm, 50mm, 100mm, Square Cuvettes Quarts 10mm, 20mm, 30mm, 50mm, 100mm

7



Micro Cell Quartz 100ul, 200ul, 500ul







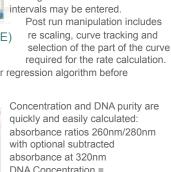
12V2UW HALOGEN LAWP 6V10W, 12V20W

Constant remperature Sipper System

Constant remperature System

Sipper System

Thermal Printer



The kinetic mode may be used for

time course scanning or reaction rate calculations. Abs vs, Time graphs are

displayed on the screen in real time.

Waiting time measurament time and

Protein Concentration = 1552" A₂₆₀-757.3"A₂₈₀

Other wavelengths and factors may be entered.

> Up to 20 wavelengths can be setected and multiple samples can be measured. (Auto cell changer is required to run multiple samples automatically)



Water jacketed Cell Holder





Seif Masking Cont, Flow Self Masking Cont, Flow Through G.cell 5mm, 10mm, 20mm, 30mm, Self Masking Cont. Flow

Micro Cell Holder

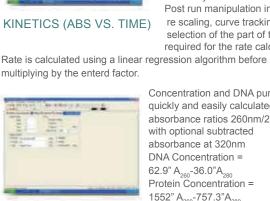


Test Tube Holder

Halogen Lamp 6V10w 12v20w

DNA / PROTEIN

Multi-Wavelength



Regulatory compliances



Corporate Social Responsibility

Analytical Foundation is a nonprofit organization (NGO) found for the purpose of:



1.Research & Innovation Scientist's awards/QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personallities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at Info@analyticalfoundation.org

2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXIFY human minds, souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.





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