

Double Beam Spectrophotometer 2080 Plus



EPC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

- Double Beam Optical system
- 8 inch multi color tough screen
- Thermal plotter optional
- Automatic wavelength settings
- Equipped with USB port

►► **Features :**

1) 2080 plus Spectrophotometer adopt double beam survey optical system, and blazed holographic gratings. They have outstanding test precision and very competitive prices.

2) 8-inch multi color touch screen cutting-edge user interface, powerful functions and easy operation.

3) With powerful functions, the equipment shows great performance in qualitative and quantitative testing such as

- Full-spectrum scanning
- Detailed spectrum scanning
- Time-based kinetics determination
- GOTO λ
- Linear regression
- Concentration direct reading
- Peak/Valley detecting
- Multi-wavelength measurement

4) The equipment is designed with sophisticated power protecting system. With high capacity of internal memory, it can store testing results, scanned images, regression equations and Correction data. Therefore, it follows a fast initialization when power on.

5) The instrument can be connected with dedicated printer, which can print testing results, or draw curve from spectral scanning. fixed wavelength time-based scanning, and linear regression.

6) There is a USB port on the device, and UVwin-8 Software is optional to order. The device be connected to a PC, which can not only enhance the performance in data testing and spectrum scanning, but also expand the memory to save more testing results.

►► Specification :

Model	: 2080 Plus
Operation and display	: LCD 8 inch Touch Screen
Light Source	: Philip halogen, deuterium lamp (2000h) (Opt: Xenon flash lamp)
Wavelength range	: 190-1100nm, 1200 lines/mm concave grating
Wavelength Accuracy	: <± 0.1 nm or better
Wavelength Slew Speed	: 12000nm/min
Wavelength Repeatability	: ±0.1nm
Photometric Range	: -± 10000 % T : -3 to 3 Abs
Photometric accuracy	: ±0.0015 Abs (0 to 0.5 Abs) : ±0.0025 Abs (0.5 to 1 Abs) : ±0.3% T (Tested with NIST SRM 930D)
Photometric Repeatability	: ± 0.0005 Abs (0 to 0.5 Abs) : ± 0.0005 Abs (0.5 to 1 Abs)
Photometric Modes	: Abs, %T, %R
Operating temperature	: 15 - 40°C
Photometric noise level	: < 0.002 Abs
Baseline stability	: < 0.002Abs/hour at 700nm
Transmittance MPE	: ±0.3%T
Transmittance Repeatability	: ≤0.15%T
Transmittance Measuring Range	: 0.0%-200.0%T
Absorbance Measuring Range	: -0.301-4.000 (A)
Spectral Bandwidth	: 1.0 nm (Fixed)
Stray Light	: 0.05%T at 220nm (NaI)and 340nm (NaNO ₂) 1%T at 198nm(KCl) : 1% (198 nm KCL 12 g/L aqueous solution) : 0.02% (220 nm NaI 10 g/L aqueous solution) : 10 mm cell

Drift	: ≤ 0.0005 A/hour (250nm/500nm. 2h warm up)
Detector	: Dual Silicon Photodiodes
Signal Noise	: 100%T noise $\leq 0.15\%$ T 0%T noise $\leq 0.10\%$ T
Baseline Flatness	: ± 0.001 A (190-1100nm)
Scan Speed	: Max 10000nm/min
Scan time	: < 2 sec
Overall Dimensions	: 600(L) x 450(w) x 200(H)mm
Weight	: 23kg
Power	: 230 ± 5 V 50Hz

▶▶ **Standard Accessories :**

User Manual	: 1 pc
1cm quartz cuvette	: 2 pcs
Power cable	: 1 pc

▶▶ **Optional Accessories**

Thermal plotter
UVwin8 software

▶▶ **HPLC Servicing, Validation, Trainings and Preventive Maintenance :**

- HPLC Servicing :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.
- Trainings :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.
- AMC's/CMC :AMC's/CMC :We offer user training both in-House and at customer sites on PLC principles, operations, troubleshooting.
- Validations :Validations :We have protocols for carrying out periodic Validations as per GLP/ GMP/U SFDA norms.
- Instruments :Instruments :We offer instruments / Renting Services Modules like pumps, detector etc. on Rent.



▶▶ **About Analytical Technologies**

Analytical Technologies is synonymous for offering technologies for doing analysis and is the Fastest Growing Global Brand having presence in at least 96 countries across the globe. Analytical Technologies Limited is an ISO :9001 Certified Company engaged in Designing, Manufacturing, Marketing & providing Services for the Analytical, Chromatography, Spectroscopy, Bio Technology, Bio Medical, Clinical Diagnostics, Material Science & General Laboratory Instrumentation. Analytical Technologies, India has across the Country operations with at least 4 Regional Offices, 6 Branch Offices & Service Centers. Distributors & Channel partners worldwide.

▶▶ **Our Products & Technologies**

						
UV/VIS Spectro 2060+ Double Beam	FTIR	Gas Chromatograph 3000	Gas Chromatograph 2979 Plus	Flash Chromatograph	Atomic Absorption Spectrophotometer	Liquid Partical Counter
						
Optical Emission Spectrophotometer	DSC/TGA	NOVA 2020 plus Automated Bio Chemistry Analyzer	HEMA 2020 Hematology Analyzer	Micro Plate Reader/Washer	URINOVA 2800 Urine Analyzer	Total Organic Carbon
						
Fully Automated CLIA	NOVA Basic Semi-Auto Chemistry Analyzer	PCR/Gradient PCR/ RTPCR	Blood Gas Analyzer	Random access Analyzer for immunoassay Proteins & clinical chemistry	Semen Analyzer	Water purification system

▶▶ **Regulatory compliances**



▶▶ **Corporate Social Responsibility**

Analytical Foundation is a Nonprofit Organization (NGO) found for the purpose of:



Analytical
Foundation

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 personalities 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 DETOXYFY human minds, souls and body by means of Yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

▶▶ **Reach us @**



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