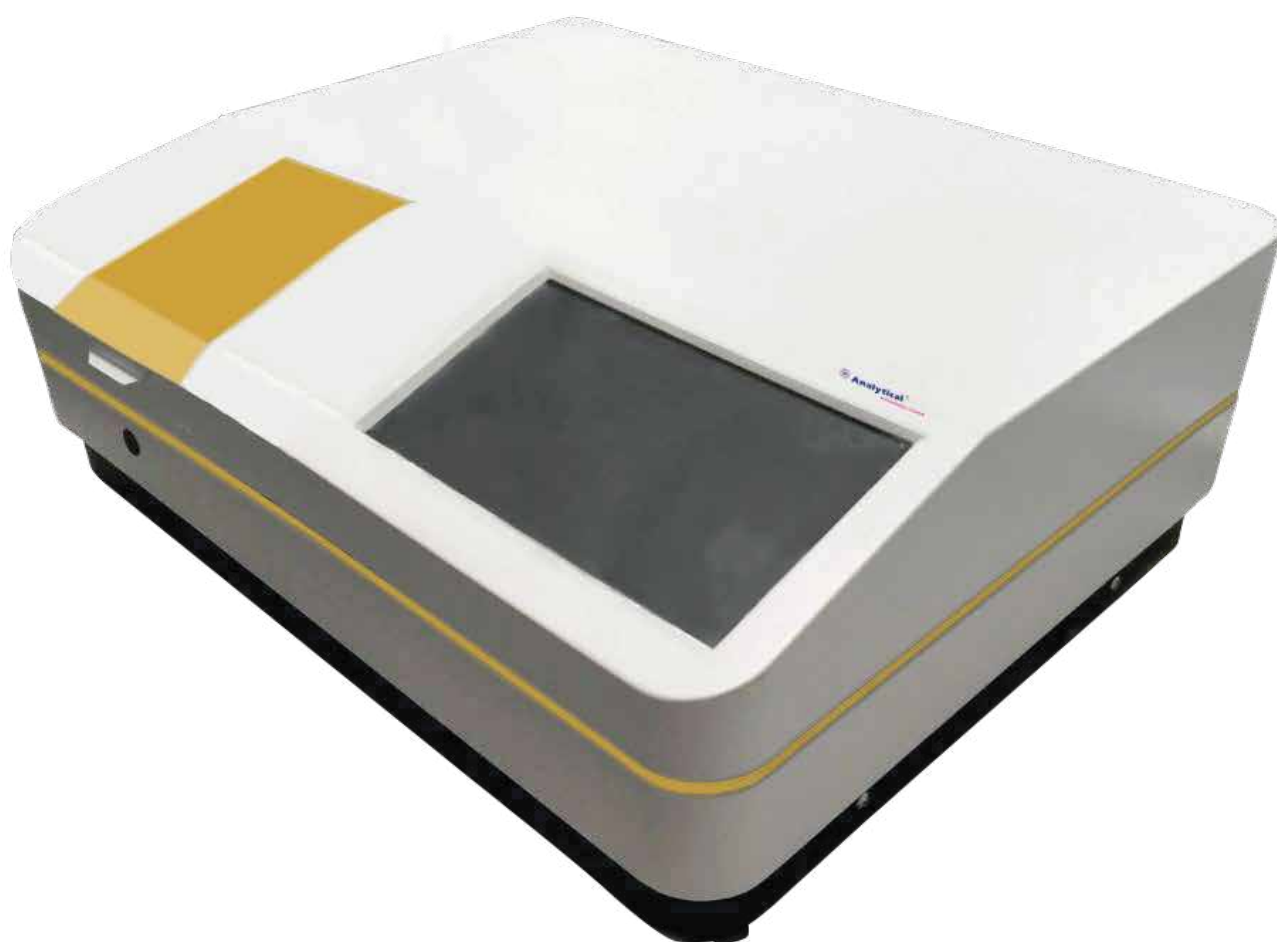


T-Series

UV-Vis Spectrophotometer with PMT



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

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net


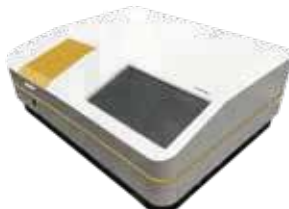
►► Product Description:

the UV-Vis spectrophotometer is designed with brand new light path & sensitive Photomultiplier receiver, which can be widely used in the research and production of organic chemistry, biochemistry, medical testing, food testing, environmental protection, water testing industry, etc. 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 Deuterium lamp & photomultiplier tube makes the instrument more accurate, stable & high-efficient.
- 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
- Socket type deuterium lamp and tungsten lamp can make lamps switching without optics debugging and easier to be replaced.
- Data processing: software based with integrating & derivative plot facility (minimum up to 2nd order derivative)
- Large room for samples can hold cuvettes of various specifications.
- Auto 8-cell holder is optional.
- 21 CFR Management software is optional.

►► Specifications:

Model	PMT-3080F	PMT-3080SF	PMT-3080V	PMT-3090F	PMT-3090SF	PMT-3090V
Picture						
Type of sample cell	quartz					
Grating	Holographic grating, 1200 lines/mm					
Optical System	Double beam sealed optics					
Wavelength Range	185-1100nm					
Spectral Bandwidth	2nm	1nm	0.1/0.2/0.5/1/2/5 with 0.1 nm increment	2nm	1nm	0.1/0.2/0.5/1/2/5 with 0.1 nm increment
Wavelength Accuracy	±0.1nm (656.1nm D2)					
Wavelength Repeatability	±0.05nm					
Wavelength Reproducibility	<0.05nm or better					
Photometric Accuracy	±0.002Abs at 0.5 Abs, ±0.003 at 1 Abs, ±0.006 at 2 Abs, ±0.3%T					
Photometric Reproducibility	±0.001 Abs (0.5 Abs), ±0.0001 Abs (1 Abs) ±0.002 Abs (2 Abs) ±0.1%T					
Photometric Range	-3 + 3Abs Transmittance %, Reflectance 0-300%					
Photometric Mode	Absorbance, Transmittance %, Reflectance, energy					

Stray Light	MAX 1.0%, At 200 nm (KCl): Max 0.005%, At 220 nm NaI ASTM method): Max:0.0025% At 340nm/370nm (NaNO2)			
Noise	±0.00005Abs			
Stability	±0.0002A/h@500nm		±0.0002A/h @700 nm	
Baseline correction	Automatic		Automatic	±0.001A
Baseline flatness	±0.0003 Abs			
Baseline Drift	0.0002 Abs/h			
Work mode	T, A, C, E			
Scanning speed	Fast, Mid, Slow 4000nm/min			
Resolution	0.1nm			
Wavelength Slew Rate	12000 nm/min			
Wavelength setting	Auto			
Display	7" color LCD		10.1" color touch LCD with Up to 4 Decimal	
Light Source	Imported Deuterium &Tungsten lamp (Automatic change)			
Detector	Imported Photomultiplier tube			
Output	USB/RS232			
Power	AC 220V/50Hz or AC 110V/60Hz			
Ambient temperature	10-45°C			
Humidity range	10-90%			
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

UV SPECTRA™ Control Software

The Analytical windows based PC application software UV/Vis analyst takes the best features of the stand alone 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:

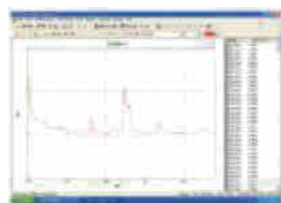
- | | |
|---------------------------------------|---------------------|
| 1. Photometric Mode | 5. DNA/Protein |
| 2. Quantitative tast (standard curve) | 6. Multi-Wavelength |
| 3. Wavelength Scan | 7. System Utility |
| 4. Kinetics | |



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

Quantitative 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.



KINETICS (ABS VS. TIME)

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 measurement time and intervals may be entered.

Post run manipulation includes re scaling, curve tracking and selection of the part of the curve required for the rate calculation.

Rate is calculated using a linear regression algorithm before multiplying by the enterd factor.



DNA / PROTEIN

Concentration and DNA purity are quickly and easily calculated:
 absorbance ratios 260nm/280nm with optional subtracted absorbance at 320nm
 DNA Concentration = $62.9 \times A_{260} - 36.0 \times A_{280}$
 Protein Concentration = $1552 \times A_{260} - 757.3 \times A_{280}$

Other wavelengths and factors may be entered.



Multi-Wavelength

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

Optional Accessories



4-Cell Holder For 10mm Swu.Cuvette



4-Cell Holder For 50mm Swu.Cuvette



4-Cell Holder For 100mm Swu.Cuvette



Cylindrical Cell Holder



Water jacketed Cell Holder



Micro Cell Holder



Test Tube Holder



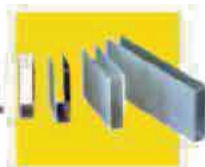
8 - Position Auto Cell Changer



Solid Sample Holder (single Cell)



10mm Water jacketed 4 Cell Holder



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



Micro Cell Quartz 100ul, 200ul, 500ul



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



Halogen Lamp 6V10w 12v20w



12V20W HALOGEN LAMP 6V10W, 12V20W



Constant temperature Sipper System



Constant temperature System



Sipper System



Thermal Printer



Deuterium Lamp

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 HPLC principles, operations, trouble-shooting.

Validations :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA 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 global. 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



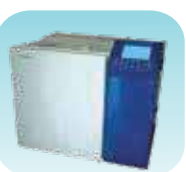
UV/VIS
Spectro 2080+
Double Beam



Infra FTIR



Optima Gas
Chromatograph
3007



Optima Gas
Chromatograph
2979 Plus



Flash
Chromatograph



Atomic Absorption
Spectrophotometer



Liquid Particle
Counter



Optical Emission
Spectrophotometer



DSC/TGA



Semi Auto Bio
Chemistry Analyzer



HEMA 2062
Hematology
Analyzer



Micro Plate
Reader/Washer



URINOVA 2800
Urine Analyzer



Total Organic
Carbon 3800



Fully Automated
CLIA



NOVA-2100
Chemistry Analyzer



PCR/Gradient PCR/
RTPCR



TOC
Analyzer



Laser Particle
Size Analyzer



Ion Chromatograph



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 @



 **Analytical**®
Technologies Limited

HPLC Solutions MultipleLabs Analytical Bio-Med Analytical Distributors Analytical Foundation (Trust)

Corporate & Regd. Office:
Analytical House, # E67 & E68,
Ravi Park, Vasna Road, Baroda,
Gujarat 390 015. INDIA

T: +91 265 2253620
+91 265 2252839
+91 265 2252370
F: +91 265 2254395

E: info@hplctechnologies.com
info@multiplelabs.com
info@analyticalgroup.net
info@analyticalbiomed.com

W. www.analyticalgroup.net
www.hplctechnologies.com
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