

3000-Series

UV-Vis Spectrophotometer with PMT



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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 and Monochromator: Czerny-Turner
- 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-3000F	PMT-3000SF	PMT-3000V	PMT-3000TF	PMT-3000TSF	PMT-3000TV
Picture						
Type of sample cell	quartz					
Grating	Holographic grating 1200 lines/mm					
Optical System	Double beam sealed optics					
Wavelength Range	190-1100nm					
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) ±0.3 nm all entire range					
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 Measured Using: NIST930 D/NIST1930					
Photometric Repeatability	±0.001 Abs (0.5 Abs), ±0.001 Abs (1 Abs) ±0.002 Abs (2 Abs) ±0.1%T					
Photometric Range	-4.0 to 4.0 Abs Transmittance %, Reflectance 0-400%					
Photometric Mode	Absorbance, Transmittance %, Reflectance, energy					

Photometric Reproducibility	±0.001 Abs			
Stray Light	MAX 1.0%, At 200 nm (KCl): Max 0.005%, At 220 nm NaI ASTM method): Max:0.0025% At 340 nm/370nm (NaNO ₂)			
Noise	±0.00005Abs at (700nm)			
Stability	±0.0002A/h@500nm		±0.0002A/h @700 nm	
Baseline linearity	±0.001A		±0.0003A	±0.001A
Baseline flatness	190 to 900 nm ±0.0004 Abs/h 1Hr warm up			
Work mode	T, A, C, E			
Scanning speed	Fast, Mid, Slow Variable from 1 to 4000nm/min			
Resolution	0.1nm			
Wavelength Slew Rate	12000 to 1.0 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			
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
Temperature Controlled System, Water free with water temperature cycling from 5°C to 80°C				

► UV SPECTRATM Control Software:

Wavelength scan (Abs, %T, %R, Sam, Ref),

Time scan (Abs, %T, %R, Sam, Ref)

Fixed wavelength, Abs & %T monitor, Quantitative Analysis mode,

Analysis mode with Autoscale , Trace, Zoom,

Peak/Valley picking Area, Height calculation, Derivative method Multiple Views/Overlay,

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



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

Reach us @



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.analycalgroup.net
www.hplctechnologies.com
www.multiplelabs.com
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