



## SPECTRO™ UV 2092+V / 2092+UV Single Beam

2092 + V & 2092 + UV spectrophotometer is the ideal instrument for Education and QC laboratories. Using your standard sample solutions, you can get a standard curve on the large LCD screen. They are widely used in colleges and enterprises for general quantitative analysis and experiments.

### Features

1. Large LCD Screen (128x64 Dots)
2. Can display total 50 groups of data, 3 groups per screen. Can display Standard curve and curve and the curve equation.
3. System can also save the test results. Total 200 groups of data and 100 standard curves can be saved. It is convenient for check and reload.
4. Date can be restored after a sudden power cut.
5. Auto setting wavelength.
6. Tungsten lamp & Deuterium lamp can be turned on/off individually to extend lifetime.
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 available.
8. Large sample compartment it can accommodate 5 - 100mm path length cuvettes with optional holders, A variety of optional Built-in USB port. You can achieve the following functions
  1. Quantitative
  2. Kinetics
  3. Wavelength Scan
  4. Multi Wavelength
  5. DNA/Protein

### Specifications

Model	2092+UV	2092+V	Power Supply	AC 100 V / 220 V, 50Hz	
Wavelength Range	190-1100nm	325-1000nm	Measurement Method	Single Beam Measurement	
Spectral Bandwidth	2 nm (standard) 1nm,4nm,5nm,8nm,10nm (optional)		Scan Speed	Low, Med, High	
Wavelength Accuracy	±1nm		Wavelength Change	Appx, 380nm / minute	
Wavelength Repeatability	±0.3nm		Scan	Appx, 24 to 1400nm / minute	
Photometric Accuracy	±0.001ABS(at 1.0ABS) ±0.003ABS(at 0.5ABS)		Stray Light	Less than 0.05% (220nm Na, 340nm Na No2 & UV 39)	
Photometric Repeatability	NIST 930 Dfilter ±0.005ABS(at 1.0ABS) ±0.003ABS(at 0.5ABS)		Baseline Stability	0.001 Abs/h	
Photometric Range	Absorbance:0.0 to 3.0 Abs/Transmittance:0.0 to 200%		Noise Level	0.002 Abs. (peak to Peak : Less than 0.0005 Abs.rms.)	
Detector	Silicone Photodiodes		Monochromatic	Incorporates aberration concave blazed holographic grating	
Light source	Tungsten lamp / Halogen / D2 lamp (Opt: Xenon Flash lamp)		Weight	12Kg	14Kg

## 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:

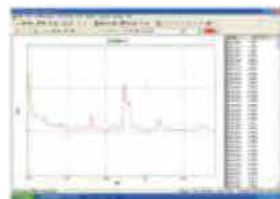
- |                                       |                     |
|---------------------------------------|---------------------|
| 1. Photometric Mode                   | 5. DNA/Protein      |
| 2. Quantitative tast (standard curve) | 6. Multi-Wavelength |
| 3. Wavelength Scan                    | 7.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



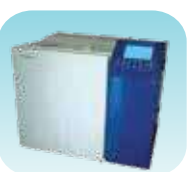
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Infra FTIR



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Chromatograph  
3007



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Chemistry Analyzer



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Total Organic  
Carbon 3800



Fully Automated  
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NOVA-2100  
Chemistry Analyzer



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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](mailto: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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