

# Nova - 2200 Plus

## Fully Automated Biochemistry Analyzer



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

**Analytical Technologies Limited**

An ISO 9001 Certified Company

[www.analyticalgroup.net](http://www.analyticalgroup.net)

## ►► Technical specification

<b>Throughput</b> <ul style="list-style-type: none"> <li>Up to 260 tests per hour</li> </ul>	<b>Reaction system</b> <ul style="list-style-type: none"> <li>90 Special cuvettes</li> <li>Length of cuvette - 6mm</li> <li>Reaction volume-200µL to 500µL</li> <li>Reaction time – 8 – 10 mins</li> <li>Reaction temperature:37±0.1°C</li> </ul>
<b>Methodology</b> <ul style="list-style-type: none"> <li>Measuring principles: Absorbance photometry, Turbidimetry ,End-point, Two-point, Kinetic,/Dual/ reagent chemistries,monochromatic /bichromatic</li> </ul>	<b>Power Requirements</b> <ul style="list-style-type: none"> <li>ower supply AC100-240V, 50-60Hz</li> <li>1 KVA</li> </ul>
<b>Sample Arrangement</b> <ul style="list-style-type: none"> <li>40 positions for sample, STAT, Calibrator, and QC</li> <li>Sample volume:2-50µL,step by 0.1µL</li> <li>Compatible with primary collection tube, minimal tube, sample cup, etc</li> </ul>	<b>Operating configuration</b> <ul style="list-style-type: none"> <li>Operation system Windows 10 or XP</li> <li>Interface RS-232</li> <li>Memory Upto 200,000 patient data</li> <li>Temperature 10°C-35°C</li> <li>Humidity upto 90% with no dew</li> </ul>
<b>Reagent arrangement</b> <ul style="list-style-type: none"> <li>40 reagent positions for R1 and R2</li> <li>Volume range: 10-500µL, step by 1µL</li> <li>Reagent Probe – Liquid level detection, collision protection function</li> <li>On board cooling ( 2°C- 8°C )</li> </ul>	<b>Optical system</b> <ul style="list-style-type: none"> <li>9 wavelengths: 300-700nm</li> <li>Tungsten halogen lamp</li> <li>Absorbance range:0-4.00Abs</li> <li>Spectrophotometry; rear spectrophotometry</li> </ul>
<b>Laundry system</b> <ul style="list-style-type: none"> <li>Needles: 8 step washing sequence.</li> <li>Water Consumption- Upto 4 l/hr</li> </ul>	<b>Mixing system</b> <ul style="list-style-type: none"> <li>Independent mixing probe</li> </ul>

- **Compact, Benchtop, Fully Automatic Random Access Clinical Chemistry Analyzer**
- **260 Test per hour**
- **Smart system with user friendly programming**
- **High end washing sequence to eliminate errors in reporting**

### **Sample /Reagent Probe**

- Integrated level and position sensors for the sample/reagent probe
- Optical sensors for vertical and horizontal movement & detection of the position of probe movement.
- Material of the probe is stainless steel – Anti rust design
- Internal and external cleaning of the probe after sample and reagent aspiration – Removes chances of carryover and cross contamination



### **Stirrer Mechanism**

- Stirrer is useful for proper mixing which is major factor for accurate results
- Teflon coating leads to hydrophobic nature and helps to avoid carryover

### **Laundry system :**

- 8 step Washing unit

There are 14 washing needles:

- Six short needles to dispense distilled water into cuvettes
- One short needle is used to dispense detergent into cuvettes
- Six long needles are used to aspirate water from the cuvettes

One long needle with silicon wiper to clean walls of the cuvettes



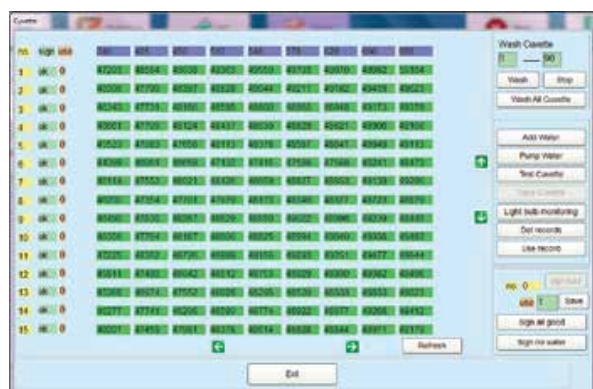
### **Reaction tray:**

- 6 reaction holders to load total 90 reaction cuvettes , each holder has 15 cuvettes
- Long cuvette life
- It can be replaced individually



### Intellectual software:

- Automatic washing cuvette when start up & shut down the instrument
- Test order setting to avoid carry over
- Automatic detection of reagent volume during every startup of the instrument
- Displays the reagent, cuvettes and room temperature during testing.

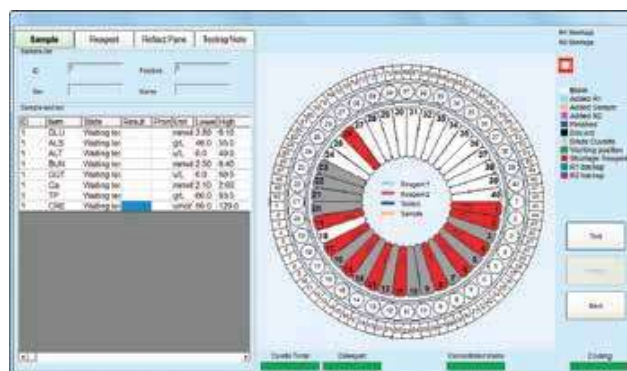


### Optimum Calibration Cuvette

- Automatic Cuvette blank testing
- Automatic wash for selected cuvette
- Online monitoring of cuvette quality

### Dynamic and real- time display of running status:

- Real time online status of sample tray, reagent tray and cuvettes
- Monitoring residual volume of reagents

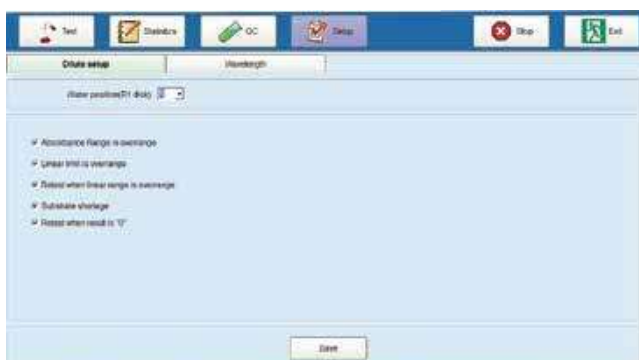


### Automatic dilute and retest

Automatic dilute and retest when :

1. Absorbance range is overrange
2. Linearity limit is crossed
3. Substrate depletion
4. '0' result

Freely set the auto dilute ratio and water position



## 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.

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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.



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