

NOVA BA-3200

Fully Automated Clinical Chemistry Analyzer



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

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

►► FEATURES

- Compact, fully automated, open random-access analyzer
- Upto 200 tests/hour throughput (without ISE)
- Minimum reaction volume: 210 µl
- Minimal < 1L/h water consumption
- 80 reusable UV transmitting plastic cuvettes
- 8-step wash station
- Primary tubes and sample cups
- Round-the-clock on-board reagent refrigeration
- 30 reagent and 60 sample positions
- Capacitive liquid level detector
- Needle shock detector
- Large liquid containers with level sensors
- Windows 7/8 and USB compatible
- LIS ethernet, ASTM, bi-directional
- Unique 'Hi' software designed for touch screen
- Automatic shut-down and start-up

►► REAGENT TRAY

- Removable refrigerated tray with 30 open reagent positions for 50 ml or 20 ml bottles. Multiple virtual reagent disks can be programmed.
- Round-the-clock refrigeration independent from main power switch.



►► SAMPLE TRAY

- Removable tray with 60 positions for sample/blank/calibrator/control/STAT samples. Multiple virtual sample disks can be programmed.
- Tray accommodates primary tubes upto 13 x 100 mm & sample cups of 0.5-1.5 ml.



►► SAMPLING ARM

- Rapid action sampling arm
- Highly polished multi-functional probe
- Precision micropipette ensures accurate dispensing volumes (precision 1.5 CV% at 2 µl; 1 CV% at 4 µl)
- Capacitive liquid level detection & tracking function available
- Needle shock detector
- Auto-wash of inner & exterior probe surface



►► REACTION TRAY

- 80 reusable UV transmitting Bionex[®] plastic cuvettes
- Long usage life: Upto 30,000 tests per cuvette
- Cuvettes can be replaced one by one
- 210 - 350 µl reaction volume
- Routine check and blank for each individual cuvette
- Fully sealed reaction compartment maintains constant temperature
- Heat transfer by air for fast & equal temperature distribution



►► WASH STATION

- 8-step wash station for thorough cleaning of each cuvette (Needles: 6 dispensing, 6 aspiration, 1 cleaning)
- Two types of systemic and special washing solutions for removing obstinate probe residues

►► MINIMAL MAINTENANCE

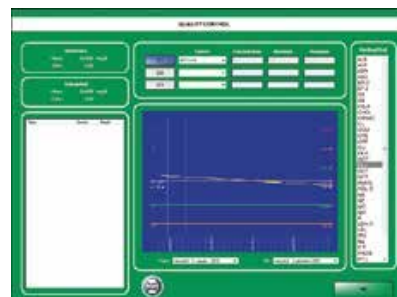
- 8 peristaltic pumps (life 1000 hrs) with replaceable neoprene cassette (life 500 hrs), 2 vacuum pumps and 1 pinch valve



►► QUALITY CONTROL & CALIBRATION

QUALITY CONTROL

- Levey-Jennings plots and Westgard multi rules
- Upto 3 QC levels per test
- QC monitor and reports
- Method statistics: Test counter, CV%, mean, graphical trend analysis



Quality Control Chart

CALIBRATION

- Method and reagent monitor (volumes, available tests, calibration, QC status)
- Automatic pre-dilution for calibrators
- Upto 8 calibrators per method
- Auto recalculation of result using last calibration.



Calibration

►► UNIQUE SOFTWARE DESIGN AND ARCHITECTURE

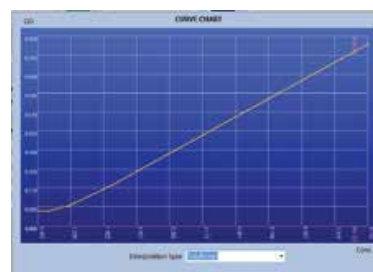
- Software designed for touch screen use
- Intuitive user interface
- Continuous loading of samples and reagents
- Random-access and STAT
- Free choice of execution order
- Extended walk-away capability
- Results archive with cumulative charts
- Programmable automatic start up routine
- Multiple work lists



Provides information on liquid level of reagents available for test.

►► INTERFACE

- Bi-directional LIS, ASTM, over ethernet port of the external PC
- Positive identification of samples with internal barcode reader (optional)
- Printing on any Windows 7[®]/8[®] compatible printer
- Method defined washing programs



Results in absorbance chart.



Displays sample status.



Product	R1 (ml)	R2 (ml)
Albumin 200	4 x 50	
Alkaline Phosphatase 100	1 x 10 tabs	10 x 10
Amylase 40	2 x 20	
ADA 60	2 x (1 x 20)	2 x (1 x 10)
ADA Calibrator	1 x 1	
Bilirubin Direct 164	8 x 20	1 x 4
Bilirubin Total 164	8 x 20	1 x 4
BUN / Urea 240	3 x 50	3 x 30
Calcium Arsenazo 200	4 x 50	
Calcium oCPC 140	2 x 50	2 x 20
CK-NAC 25	1 x 20	1 x 5
CK-MB 25	1 x 20	1 x 5
Chloride 80	4 x 20	
Cholesterol 300	6 x 50	
Creatinine (Jaffe) 240	4 x 50	4 x 10
Cystatin-C 60 with 1 ml Calibrator	2 x (1 x 25)	2 x (1 x 5)
Cystatin C Control Low & High	Low : 1 ml High : 1 ml	

Product	R1 (ml)	R2 (ml)
Gamma GT 60	2 x 25	2 x 5
Glucose 300	6 x 50	
Homocysteine 50	2 x (1 x 20)	2 x (1 x 5)
Homocysteine 5 Level Calibrator	5 x 1	
Homocysteine Control Low & High	Low : 1 ml High: 1 ml	
HDL Cholesterol 240	2 x (2 x 45)	2 x (2 x 15)
LDL Cholesterol 240	2 x (2 x 45)	2 x (2 x 15)
LDH 48	2 x 20	2 x 4
Lipase 30	1 x 24	1 x 6
Magnesium 80	4 x 20	
Phosphorous 80	4 x 20	
SGOT / AST 220	4 x 44	4 x 11
SGPT / ALT 220	4 x 44	4 x 11
Total Protein 200	4 x 50	
Triglycerides 300	6 x 50	
T HDL-C Calibrator	3 x 1	
T LDL-C Calibrator	3 x 1	
Uric Acid 200	4 x 50	

►► SPECIFICATIONS

MODE	Open, random-access, STAT
THROUGHPUT	200 t/h throughput for single-shot reagents 100 t/h for double shot reagents
ANALYSIS	Endpoint (bichromatic), Differential endpoint (with sample blank), Fixed time, Kinetic (bichromatic), Multi standard (up to 8), factor, linear, non linear (cubic spline, poly linear and logit-log four parameters)
SAMPLES	Removable sample tray 60 positions: primary tubes 13 x 100 mm and 10 mm cups Optional: sample tray for 20 primary tubes 16 x 100 mm and 20 cups of 3.5 ml Sample volume: 2 – 300 µl Automatic pre - (upto 1:100) and post-dilution Test profiles and replicates
REAGENTS	Removable reagent trays 30 reagent positions 50 or 20 ml bottles, adapter for tubes and cups Reagent volumes: 5 – 350 µl Refrigeration to ~ 12 °C below ambient Substrates, Enzymatic, Turbidimetric
REACTION	80 reusable cuvettes Reaction volume: 210 – 350 µl 6 mm optical path Heat transfer by air
PIPETTING	Needle shock detector Capacitive liquid level detector
WASH STATION	8-step cuvette wash station Systemic and special washing solutions 6 dispensing needles Water consumption < 1 L/h
OPTICAL SYSTEM	9 discrete wavelengths (340, 405, 505, 546, 578, 600, 650, 700 nm, one free position), 1 solid position for dark reading Band pass: + /– 5 nm Photometric linearity: 0 – 2.5 Abs Stability: < 1 % drift per day
DILUTER SYRINGE	Long life plunger Syringe capacity 368 µl, Syringe resolution 0.14 µl

HYDRAULIC SYSTEM	8 self priming peristaltic pumps (life 1000 hrs) with replaceable neoprene cassette (life 500 hrs), 2 vacuum pumps, pinch valve. Manifold Container: Water 20 L; Cleaning Solution 2 L; Waste 20 L; equipped with level sensor and safety connections
DATA MANAGEMENT	External computer required(Pentium IV, 2 GHz, 20 GB HDD, 512 MB RAM, CD/R, USB) Windows 7/8 with .NET framework 4.0, LIS: Bi-directional, polling mode, ASTM, ethernet Designed for touch screen (Minimum vertical resolution 900 pixels)
LANGUAGES	English
PRINTOUTS	By patient, single test, complete sample, work sheet, method and QCs, calibration curves, kinetics, continuous printing
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POWER	100 – 240 (wide range input), 50/60 Hz, < 200 VA
DIMENSIONS	69 x 76 x 52 cm (W x D x H)
WEIGHT	38 kg
ENVIRONMENT	16 - 30°C, humidity < 80 % non-condensing

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.



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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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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



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Analytical
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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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