

EPC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net



>> System Functions

Type : Fully Automated Random Biochemistry Analyzer

Throughput: 200 test/hour,up to 280 tests/hour with ISE(optional)

Test Mode: End point, Kinetios, Fixed time, Immunotubidimetry

: Monochromatic, Bi-chromatic & Multi-standard Analysis Linearity & Nonlinearity

Calibration

: Single & Dual Reagents can be used

Test Setting: Programmable for single -Parameter, multi-parameters and combined parameter,

batch test

Test Range : Clinical Biochemistry, Turbidimetry, ISE, Protein, Drug abuse

Parameter setting : Completelly open for editing test parameters and calculation parameters

>> Sample System

Sample Tray: 44 sample positions for primary tubes, test tubes and various sample cups

: Whole sample try can be removed and replaced

: Any position can be aligned as the emergency test position

Sample Volume : 3µl-30µl, programmed by 0.1µl step

Sample Handling: Dilute and retest automatically when sample's conentration beyond linitation

Sample probe : Liquid level detection and collidion protetion

Syringe: High performane syring, durable and maintenance free

Optional item : Bar code reader

>> Reagent system

Reagent tray : 44 positions for Single & Dual reagents, reagent position can be aligned freely

Reafrigeration: Refrigerated reagent comparatment, 24 hours non-stop cooling with Peltier element

: Maintaining temperature 4-15°C

Reagent volume :150µl~300µl, programmed by 0.1µl step

Reagent probe : Automati liquid level detection funvtion and collision protetion

: Reagent pre-heating function, inventrory cheking.

: Real time monitoring of reagent residual volume and auto alarm

Probe cleaning: Automati washing for both inside and outside, carry over<0.1%



>> Reactiont System

Reation tray : 48 reaction cuvettes with 6mm opatical path, good UV penetrability, low

consumable, low cost

Reation technology: Back-Dividing- Light Technology

Reaction volume : 250µl- 300µl

Temperature : 37°C, with +0.1°C fluctuation

Mixing system : Independent mixer

Cleaning: Automatic cuvettes cleaning and complate drainge to reduce carry over

Water consumption: 5L/hour

Liquid detection: Detergent, distilled water, waste liquid automatic detection and alarm

>> Calibration & Quality Control

Calibration mode : Linear (one-point, two-point and multi-point), Logit - Logit4P, Logit-Log5P

Spline, Exponential, Polynomial, Parabola

QC rules : Westgard Multi-rule

QC rude : Ontra day & inter day QC

Optical System

Light scurce : Halogen lamp 6V/10W, life span> 3000 hours

Wavelength : 340nm, 405nm, 450nm, 505nm, 546nm, 578nm,620nm,670nm,700nm

Wavelength accuracy : ±2nm

Detetor : Photoelectron Diode Array

Absorbance ranger : 0.000 Abc-3.000 Abs

>> Operating System

Computer: Windows 2000 System or above

Data management: Large capacity for results and reaction curves to be displayed, saved and printed

Report: Edit and print complete reports, format editable, support network printing

Port : RS-232

Working Conditions

Power : $220V \pm 22V$, $50/60HZ \pm 1Hz$

Power consumption: ≤ 400VA

Environmental temperature: 15°C ~30°C

Humidity : $\leq 85\%$

Dimension : 760(L) X 560(W) X 1018(H)mm

Weight : ≥85Kgs



>> Multifunction Sample & Reagent Tray

- 44 sample & reagent positions on board, can be extended to 88 positions.
- 24 hours non-stop cooling in Reagent & Sample position (4-15°C), Reagents & samples ready-to-use.
- Primary tubes, test tubes and various sample cups can be used.
- Samples can be serum, Urine and Cerebrospinal Fluid.
- STAT supported.



>> High Precision Syringe

• High Precision syringe, durable, trouble and maintenance free.



>> High Performance Mixer Design

- Independent Mixer, functions immediately after the samples and reagents pipetted in
- 3 different mixing speed, no air bubble, so as to increase the accuracy
- No reaction liquid splash.
- Polished mixer surface to ensure no air hanging.



>> High Quality Colorimentry System

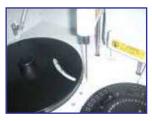
- Direct heating reaction tray, temperature increase to 37°C quickly.
- With ±0.1°C fluctuation, real time display on screen
- Low reagent consumption
- High Quality cuvette, with excellent UV penetrability, durable and economic.





>> Sample / Reagent Dispensing System

- Automatic Liquid detection :probe selects the perfect position to minimize the cross contamination
- Inventory monitoring: sampling and reagent probe adjust depth automatically according to need for liquid, so as to increase accuracy.
- Collision protection: Probe depth adjust and reset automatically.
- Cleaning: Automatic cleaning with patent spring cleaning mode.
- Preheating: Reagent preheating function to keep reagent and sample ready to use.
- Syringe: high precision, durable, trouble and maintenance free.



>> High-tech Washing

- 8 step auto-washing with 3 kinds of different detergents.
- Complete drainage to prevent any carry over.
- 6 times washing for each reaction cuvette.
- Water consumption <5L /hours
- Special and complementary washing for samples easy to be contaminated.
- Whole procedure is monitored to ensure cuvettes always clean.

>> Intelligent software

- Multi-media operating software, easy to understand and operate.
- Real time online help system.
- Multi kinds of automatic monitoring function to ensure the analysis procedure scientific and intelligent.

>> Intelligent liquid level detection

Automatically detect levels of detergent, distilled water and waste liquid, with real time alarm.



▶▶ Regulatory compliances



Corporate Social Responsibility



Analytical Foundation is a Nonprofit Organization (NGO) found for the purpose of:

- 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 personallities 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.

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