

ACA - 3420

Auto Chemistry Analyzer



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

Analytical Technologies Limited

An ISO 9001 Certified Company

►► Technical Specification

- 360 tests/hour, up to 540 tests/hour with ISE(optional)
- Grating system with 12 wavelengths
- Built-in bar code reader (optional)
- 8 steps washing system
- Bi-direction LIS interface

System Function

Automatic, Random Access

STAT sample priority, available for all sample position Barcode Scanner for sample and reagent

Bi-direction LIS interface (HL7)

Throughput: 360 tests/hour (single and dual reagent)

Up to 540 tests/hour with ISE (K⁺, Na⁺, Cl⁻)

Principle: Colorimetric, Turbidimetric

Methodology: End-point, Two-point, Kinetic

Discrepant Value

Single/Dual/Triple/Quadruple reagent
chemistries

Monochromatic/Bichromatic

Programming: Open system with user defined profiles and calculation assays

Simple/Reagent Handling

2 reagent probes, 1 sample probe

Sample tray: 100 positions

Reagent tray: 80 refrigerated positions

Refrigeration temperature: 2 ~ 1 OOC

Reagent volume: 20 ~ 350 pL, 1 pl- adjustable

R1: 150 350 pL, 1 pl- adjustable

R2: 20 — 250 pL,1 pl- adjustable

Support R3 and R4

Sample volume: 2 ~ 45 pL, 0.1 pL- adjustable

Sample and Reagent probe:

Collision protection, liquid level detection
and inventory checking

Probe cleaning:

Automatic washing both interior and
exterior, carryover <0.1%

Pre-heating for reagent

Auto dilution: 3-150 times

Built-in reagent/sample bar code reader (optional)

Reaction System

Reaction positions: 100 cuvettes

Cuvette: Optical length 5mm

Reaction volume: 150 500ul

Reaction temperature: 37 °C, ± 0.1 °C

2 mixing probes

8 steps auto-washing system

Measuring and Optical System

Light Source: Halogen tungsten lamp

Photometer: Grating photometry

Wavelengths: 340nm, 405nm,
450nm, 505nm, 540nm, 570nm, 600nm,
635nm, 670nm, 700nm, 760nm, 795nm

Absorption range: 0 ~ 2.500Abs

Resolution: 0.0001Abs

Working Condition

Power supply:	100 ~ 240 V, AC 50/60 Hz, 1500w
Temperature:	10°C ~ 30°C
Humidity:	40% ~ 85%
Water consumption:	≤20 L/hour
Dimension:	1150mm(L)*726.5mm(w)*1150mm(H)

►► Reagent System

Multi-functional reagent probe

- Interior and exterior probe washing
- Liquid level detection
- Collision protection
- Inventory checking
- Reagent volume as low as 20pl
- Probe depth adjust automatically



Refrigerated reagent tray

- 80 reagent positions for RI ,R2,R3,R4
- Compatible with Hitachi reagent bottles
- 24 hours non-stop cooling with peltier element
- Ready-to-use stable reagent
- Built-in reagent bar code reader (optional)

▶▶ Sample System

Multi-functional sample probe

- Interior and exterior probe washing
- Liquid level detection
- Collision protection
- Probe depth adjust automatically
- Sample volume as low as 2pI



Multi-functional sample

- 100 sample positions
- 7 virtual sample disks
- Support standard tube, primary tube, EP tube
- Automatic dilution of high concentration sample
- Automatic rerun
- Built-in sample bar code reader (optional)



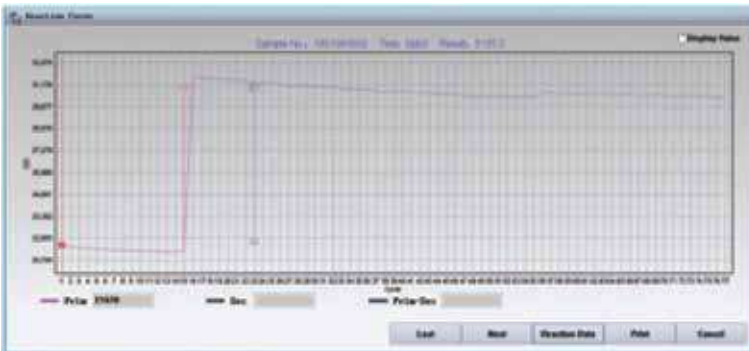
▶▶ Optical System

- Unique water cooling system for light source
- Maximum stabilized optical system
- Sealed optical system to prevent any dust and disturbance
- Reversed optics, grating photometry
- Maintenance free

▶▶ ISE module

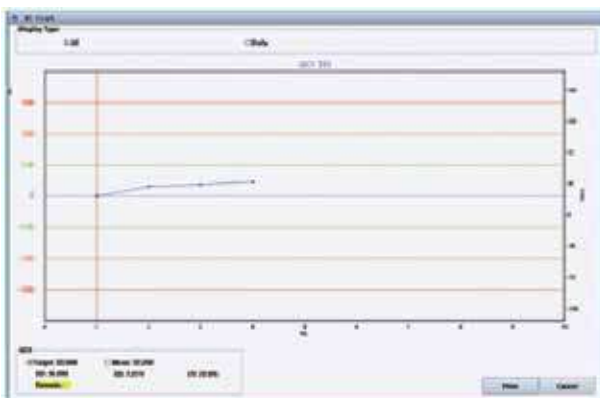
- Optional selection of K^+ , Na^+ , Cl^-
- Throughput: up to 270 tests per hour
- 6 months shelf life

▶▶ Operation System



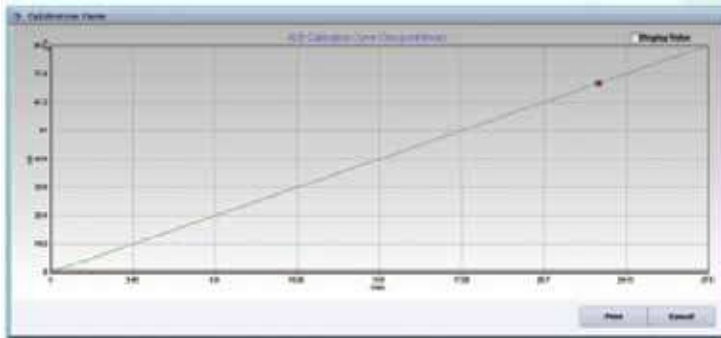
▶▶ Reaction Curve

- Substrate exhaust limit detection
- Equilibrium point auto search



►► QC Graph

- QC type: real-time QC, daily QC, day to day QC
- Control rule: multi-rules QC, intelligent QC alarm



►► Calibration Setting

Refitting : fitting different types of calibration curve with a certain standard data, thus choosing the best calibration curve

►► Reaction System

Reaction tray

- Optimized test sequence to reduce carryover
- Total reaction volume as low as 150pl
- Contains 100 reaction cuvettes
- Real direct heating
- Real-time display of reaction tray temperature

Unique washing station

- High precision washing liquid control to guarantee washing function
- Washing solution pre-heating to prevent any carryover
- Maintain ideal temperature for testing
- 8 steps auto-washing
- Separate drainage for high and low concentration waste
- Ceramic syringe for auto washing system, high accuracy

▶▶ High performance mixer design

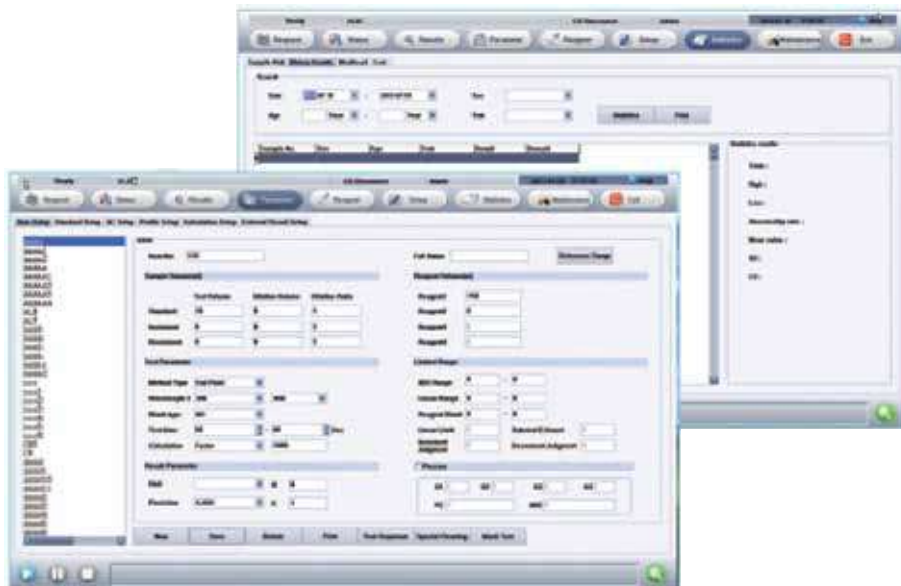
- Two independent mixers
- Optimized homogenization in minimum time
- Standardized mixing procedures
- Function immediately after sample and reagent pipetted in

▶▶ Parameter setting

- Different levels of user permission
- Different reference range according to gender and age
- Calculated items available
- Manual items input available
- Automatic rerun
- 3-150 times auto dilution

▶▶ Statistic

- Calculate the mean value, standard deviation and coefficient of variation
- Statistics of reagent usage
- Statistics of test volume



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Our Products & Technologies



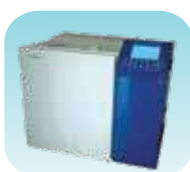
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Double Beam



Infra FTIR



Optima Gas
Chromatograph
3007



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Spectrophotometer



DSC/TGA



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Ion Chromatograph



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system

Regulatory compliances



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