



diagnosyf

diagnosyf 431-CA

Automatic Chemistry Analyzer



- Constant 430 T/H, 620 T/H with ISE
- 80 sample positions, 80 reagent positions
- Air bath heating incubation system
- 24 hours non-stop, 2~8°C constant incubation
- Filter type post-splitting optical system
- Probes & washing arm collision protection
- User-friendly software, easy operation
- Bi-directional LIS/HIS



Real-time Workflow Follow Up

- Control all operations from main interface (routine, STAT, temperature, etc.)
- Multiple alarms, auto-retest and auto-dilution functions for over linearity or substrate exhausted samples
- Reaction curve saved for every test
- Calculated results available

Spesifikasi Alat

Instrument Specification

Instrument Type	Fully automatic random access chemistry analyzer
Throughput	Constant speed 430 T/H, 620 T/H with ISE
Testing Method	One-point end, two-point end, rate (kinetic), two points rate, mono/double wavelength, eliminate reagent and sample blank immunoturbidimetry
STAT Function	Emergency samples can be added during routine test

Sample System

Sample Disk	80 sample positions (including routine sample, calibration, QC and STAT positions), support primary tubes and sample cup, and 119 sample positions version optional
Collision Detection	Probes and washing arm collision protection
Sample Probe	Inner & outer high polished probes with low carry over Liquid level detection Volume tracking function during aspiration
Sample Volume	1.2~35 μL , variable in 0.1 μL

Reagent System

Reagent Disk	80 positions compatible with several types of bottles
Cooling System	Independent 2~8°C 24 hours non-stop cooling system
Washing System	Warm water washing for cuvettes and both inner and outer of the probes
Reagent Probe	Inner & outer high polished probe with low carry over Reagent volume tracking function during aspiration
Reagent Volume	10~400 μL , variable in 0.5 μL

Optical System

Light Source	Filter type post-splitting with
Optical System	12 wavelengths 340nm, 380nm, 405nm, 450nm, 505nm, 546nm, 578nm, 600nm, 660nm, 700nm, 750nm, 800nm

Others

Dimension	950mm(L) \times 643mm(W) \times 1114mm(H)
Instrument Weight	171.5 kg
Water Consumption	≤ 15 L/H during operation

Reaction System

Reaction Cuvette	120 high permeable UV cuvettes Hard glass cuvette optional
Washing System	8-probe 10-step with detergent Extra cleaning optional for specific test items
Mixing System	2 individual stirrers
Reaction Volume	90~400 μL
Incubation System	Air bath heating $37 \pm 0.1^\circ\text{C}$

Calibration and QC

Calibration	Linearity calibration (single point, two points, multi points) Non-linearity calibration (Logit-Log4P, Logit-Log5P, exponential function, spline, exponential 5P, parabola, Wei Bull)
QC Rules	Westgard multi-rules, Levey-Jennings rules and diverse levels of QC

Operation System

Operation System	Windows 7, 10
Testing Sequence	Programmable test sequence Maximize test speed and minimize carryover
Advanced Features	Reaction reading points traceable after test cycle finish Exceed linearity and high concentration sample auto-dilution Real-time monitoring reaction process
LIS Protocol Report	Bi-directional LIS/HIS Various editable customized formats
Data Storage	Depend on PC host memory capacity

Parameter

48 test items:

- TB/TB-VA/TB-DCA, DB/DB-VA/DB-DCA, TP, ALB, ALT, AST, GGT, ALP, CHE, TBA, PA, ADA
- Cr/CR-OX, Urea, UA, CSF/UTP, $\beta 2$ -MG, MALB, Cys-c, CO_2
- CHOL, TG, HDL-C, LDL-C, Apo-B, HCRP, Lp (a)
- GLU-PAP/GLU-HK
- CK-NAC, α -HBDH, LDH, CK-MB, LDH1
- Fe, Ca, Mg, P
- ASO, RF, CRP
- IgG, IgA, IgM, C3, C4
- α -AMY, LPS, PAMY
- TF

