

Technical Specifications

Performance

Type	Discrete Automatic, Random Access
Principle	Absorption Spectrometry, Turbidimetry
Throughput	Constant 300tests/hour (without ISE)
Test method	End-point, Fixed-time(two point), kinetic, support double reagent and double wavelength
Test sequence	Run tests in strict accordance with sample sequence, Insert emergency at any time

Optical System

Light source	Halogen-tungsten lamp, 12V/20W More than 2000hrs service time
Spectrometric method	After spectrometric method
Wavelength	8-12wavelengths, selectable among 340-900nm)
Absorption range	0-4.0Abs
Optical system	Integrated full closed optical system

Reaction System

Reaction tray	81 positions, cuvettes reusable
Reaction volume	Mini 150 μ l

Sample System

Sample tray	80 positions, independent tray
Sample volume	2-100 μ l, 0.1 μ l by step,
Online sample	80 samples/ batch, unlimited batch input

Reagent System

Reaction tray	80 positions, open system, independent tray
Reagent volume	20-500 μ l, 1 μ l by step
Reagent open system, close system for option	

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Temperature Control System

Refrigeration system	Water -medium uniform cooling technology
Heating time	Less than 3minutes
Reagent tray temperature	2-10°C
Reaction temperature	37 \pm 0.1°C
Temperature fluctuation	\pm 0.1°C
Refrigeration system	24 hours cooling for reagent tray, temperature 2-10°C

Calibration and QC

Calibration mode	Linear, Logit-4p, Logit-5p, Spline, Factor, Polynomial Automatically check calibration curve and fitting the best calibration curve
QC type	Multi-type
QC rules	Multi-rule; default: Westguard
Status monitoring	Real -time monitor the sample tray, reagent tray, reaction tray; Real-time display reaction temperature, reagent remain, reaction curve, calibration curve and QC chart.
Inspection & Judgment	Reaction end point judgment, reaction linear range judgment, substrate depletion judgment, reagent blank absorbance judgment

Operation and Print

Operation system	Windows XP or Windows 7 Home
Database	SQL Server
Data storage	Automatic storage and backup, permanently preserve all kinds of data
Print content	Print content can be customized
Print format	Provide a variety of print format

Working Conditions

Water consumption	Less than 10L/hour
Power supply	AC 220 \pm 22V 50HZ \pm 1HZ
Power	Max 550VA
Ambient temperature	15°C-30°C
Dimension (L*W*H)	92x73x113cm
Net weight	120KGs



CE ISO9001 ISO13485



- 300tests /hour
- 80 sample positions
- Auto washing
- 80 reagent positions
- 24hours refrigeration
- 81 reaction positions

KHA-420

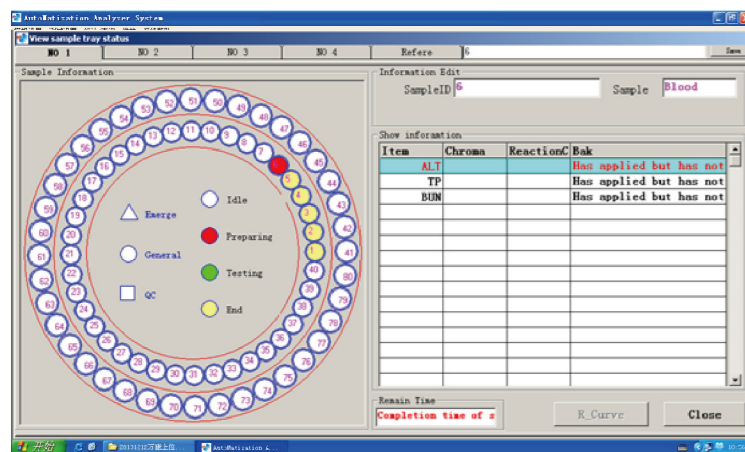
Fully-auto Biochemistry Analyzer

Jinan Kinghawk Technology Co.,Ltd

Profession & Care

KHA-420 Fully-auto Biochemistry Analyzer

Operation System



- Probe performance: Liquid level detection, all-round anti-collision protection and inventory checking, have automatic stop and alarm prompt for an obstacle; special cleaning solution to prevent cross-contamination.
- Probe cleaning: Automatic washing for both interior and exterior
- Constant 300 tests/hour, up to 420 tests/hour

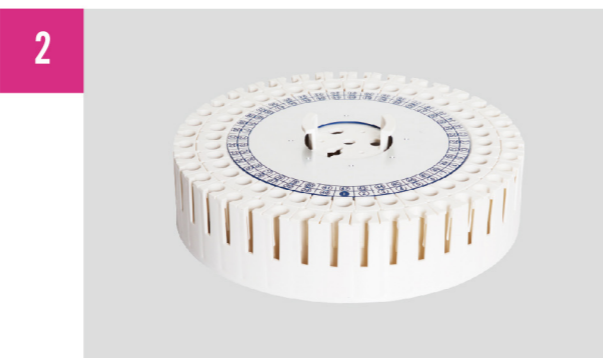
- The test parameter setting is completely open and easy-going
- Set the operating authority, no time limit and storage limit,
- User password management, to differ the operator authority
- Real-time display the status of sample testing, reagent remain, reaction tray and reaction curve recording
- Real-time check for measuring process
- Automatically check calibration curve and fitting the best calibration curve
- Calibration Mode: Linear, Logit-4p, Logit-5p, Spline, Factor, Polynomial
- Testing items can be set randomly, auto check for substrate-off, auto retest, auto record sample and reagent blank, prozone testing available
- Real-time display the reaction tray temperature and lamp status
- RS232 standard interface, hospital data-system connecting and remote printing available

Reagent Tray



- 80 reagent positions
- Advanced reagent tray refrigeration system, Temperature: 2-10°C
- Reagent Bottle: Bottles with 15ml, 20ml, 30ml, 50ml, 70ml capacity are available
- Support single\double reagents, reagents open system

Sample Tray



- 80 sample positions
- Compatible with disposable blood collection tube, micro cup and plastic tube
- Automatically identify the original sample tube and micro sample cup
- Random access, test according to the sample sequence, insert emergency at any time
- Real-time display sample testing status

Reagent Adding System

- Reagent probe has the liquid level detection, pre-heating and anti-collision protection functions.
- Reagent Volume: 20-500 μ l, 1 μ l by step
- Reagent probe will be cleaned before and after sampling to reduce the contamination
- Real-time reagent volume remaining
- Reagent volume tracking technology

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Washing System

- 5-group probes for washing cuvettes automatically
- 12 steps cleaning, lower cross contamination
- Optional acid-alkali cleanser

Sample Adding System

- Sample probe has the liquid level detection and anti-collision protection function
- Sample Volume: 2-100 μ l, 0.1 μ l by step
- Sample probe will be cleaned before and after sampling to reduce the contamination
- Sample probe blocking self-test alarm function
- Automatic dilution and re-measuring function
- Sample volume consumption tracking technology

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Mixer System

- Independent mixer system, no hanging liquid
- Mixer probe will be cleaned before and after mixing to prevent cross contamination
- Mixer probe has the anti-collision protection function