



BS-380

Chemistry Analyzer

mindray
healthcare within reach

BS-380

Chemistry Analyzer

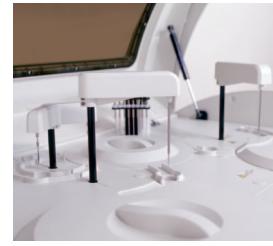
- Discrete, random access, fully automated
- Constant 300 tests per hour, up to 450 tests per hour with ISE
- Onboard capacity of 75 sample positions, up to 58 chemistries plus 3 ions
- Refrigerated reagent compartment
- Automatic probe cleaning, liquid level detection, vertical and horizontal collision protection
- 8-step auto washing system
- 12 wavelengths: 340~800nm
- Automatic dilution for abnormal sample
- Internal bar code reader (optional)
- Bi-directional LIS interface





Multi-functional sample tray

- 75 sample positions
- Can be programmed into 5 virtual sample disks
- Primary tubes and various sample cups can be used
- Automatic dilution of high concentration sample
- Pre-dilution for samples
- Internal sample bar code reader (optional)



Multi-functional sampling probes

- Interior and exterior probe washing
- Liquid level detection
- Collision protection
- Inventory monitoring
- Probe depth adjusted automatically



Reaction tray

- Test sequence optimization
- 150 μ L minimum total reaction volume
- Contains 72 reaction cuvettes
- Maintenance free heating system



Washing station

- High-tech washing station to ensure accurate results and valid diagnostics
- Concentrated detergents to reduce carry-over
- 8-step auto washing station



High performance mixer design

- Integrated mixers system
- Optimized homogenization
- High precision mixer station to ensure excellent reaction conditions
- Standardized mixing procedures
- Separate mixer for individual reaction steps



Refrigerated reagent tray

- 58 reagent positions for R1, R2
- 24 hour non-stop cooling with Peltier element
- Ready-to-use liquid stable reagents
- Internal reagent bar code reader (optional)

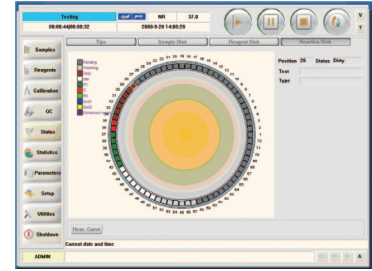
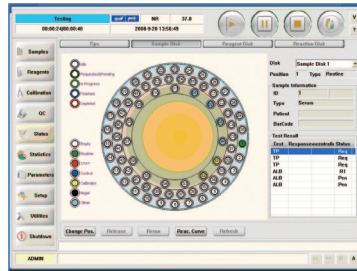
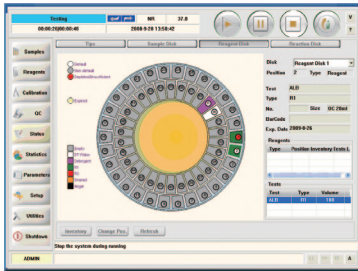
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Dynamic and real-time display of running status

- Running status of reagent tray, sample tray and reaction tray
- Real-time monitoring of reagent residual volume
- Real-time diagnosis of system working status



Flexible and convenient software function

- Template Modifying Software

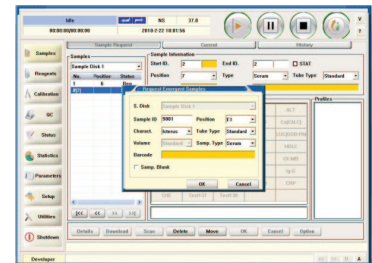
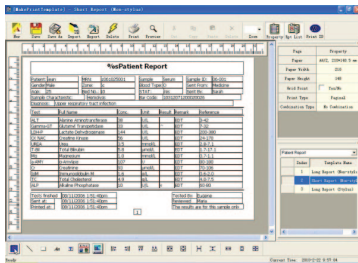
Flexible to define various report templates for laboratory, and easy to import new template from Mindray or other users.

- Monitoring of various Samples

It is method to perform continuous glucose monitoring in subjects with impaired glucose tolerance or other multiple samples monitoring.

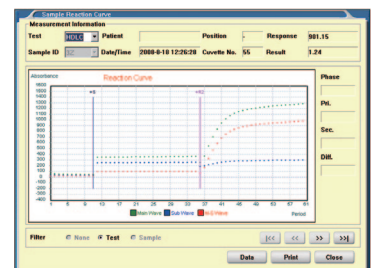
- Fast Emergency Detection

One-key STAT function makes it easy to perform an emergency test for operator.



Original reaction data record

- Real-time monitoring of reactions
- Simultaneously display reaction curves under primary and secondary wavelengths
- Detailed profile of alert messages



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Technical Specifications

System Function:

Fully automated, Discrete, Random access for routine, STAT, Urine and homogeneous immuno assays;
STAT sample priority

Throughput: 300 tests / hour, up to 450 tests / hour with ISE

Measuring principles:

Absorbance photometry, Turbidimetry

Methodology: End-point, Fixed-time, Kinetic, optional ISE
Single / Dual reagent chemistries, monochromatic / bichromatic
Linear / non-linear calibration

Programming: User defined profiles and calculation

Sample Handling:

Sample tray: 75 positions for primary or secondary tubes and sample cups

Sample volume: 2~45µl, step by 0.1µl

Sample probe: Liquid level detection, vertical and horizontal collision protection

Probe cleaning: Interior and exterior automatic washing
Carry-over < 0.1%

Automatic sample dilution:

Pre-dilution and post-dilution ratio up to 1:150

Dilution vessel: Cuvette

Internal Bar Code Reader (optional):

Used for sample and reagent programming; applicable to various bar code systems including Codabar、ITF、Code128、Code 39、UPC / EAN、Code 93. Bi-directional LIS interface

ISE Module (optional):

Optional selection of K⁺, Na⁺, Cl⁻

Throughput: Up to 225 tests per hour

Reagent Handling:

Reagent tray: 60 positions in refrigerated compartment (2~8°C)

Reagent volume: R1: 150~350µl, step by 1µl;

R2: 20~200µl, step by 1µl;

Reagent probe: Liquid level detection, vertical and horizontal collision protection

Probe cleaning: Interior and exterior automatic washing
Carry-over < 0.1%

Reaction System:

Reaction rotor: Rotating tray, 72 cuvettes with automatic washing

Cuvette: Optical length of 5mm

Reaction volume: 150~360µl

Operating temperature: 37°C

Temperature fluctuation: ±0.1°C

Mixing system: Integrated mixers system

Optical System:

Light Source: Halogen-tungsten lamp

Photometer: Reversed optics, grating photometry

Wavelength: 340nm、380nm、412nm、450nm、505nm、546nm、570nm、605nm、660nm、700nm、740nm、800nm

Absorbance range: 0~3Abs

Resolution: 0.001Abs

Control and Calibration:

Calibration mode: Linear (one-point, two-point and multi-point), Logit-Log 4P, Logit-Log 5P, Spline, Exponential 5P, Polynomial 5P, Parabola

Control rules: Westgard multi-rule, Cumulative sum check, Twin plot

Operation Unit:

Operation system: Windows® XP Professional/Home SP2 or above
Windows® Vista Home/Business

Interface: RS-232

Working Conditions:

Power Supply: AC 100~240V, 50 / 60Hz, 1000VA

Temperature: 15~30°C

Humidity: 35~85%

Water consumption: 10L/hour

Dimension: 990mm x 693mm x 1135mm (WxDxH)

Weight: 200 Kg

DISTRIBUTOR:



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