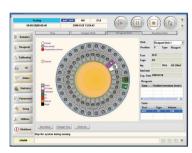
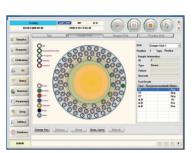
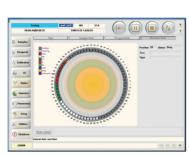
Dynamic and real-time display of running status

- 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

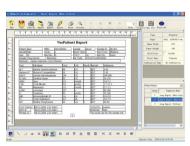
Flexible to define various report templates for laboratory, and easy to import new template from Mindray or other users.

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.

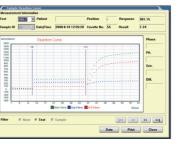






Original reaction data record

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



BS-380

Chemistry Analyzer

Technical Specifications

System Function:

Fully automated, Discrete, Random access for routine, STAT, Urine and homogeneous immuno

says;

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: $2\sim45\mu$ l, step by 0.1μ l

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

Probe cleaning: Interior and exterior automatic washing

Carry-over< 0.1%
Automatic sample dilution:

ample unution.

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; Working Conditions:
Power Supply:

Reagent probe:

Probe cleaning:

Reaction System:

Reaction volume:

Mixing system:

Optical System: Light Source:

Photometer:

Wavelength:

Resolution:

Control rules:

Operation Unit:

Interface:

Operating temperature: 37°C

Absorbance range: 0~3Abs

Control and Calibration:

Temperature fluctuation: ±0.1°C

Reaction rotor:

Cuvette:

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)

Liquid level detection, vertical and horizontal

Rotating tray, 72 cuvettes with automatic washing

Interior and exterior automatic washing

collision protection

Carry-over< 0.1%

Optical length of 5mm

Integrated mixers system

Halogen-tungsten lamp

740nm \ 800nm

0.001Abs

Calibration mode: Linear (one-point, two-point and

Twin plot

RS-232

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

Reversed optics, grating photometry

340nm、380nm、412nm、450nm、505nm、

546nm、570nm、605nm、660nm、700nm、

multi-point), Logit-Log 4P, Logit-Log 5P, Spline,

Exponential 5P, Polynomial 5P, Parabola

Westgard multi-rule, Cumulative sum check,

Windows® Vista Home/Business, Windows® 7

150~360µl

Weigh: 200 Kg



BS-380Chemistry Analyzer





GP Plaza Lantai 3 Unit 6 Jl. Gelora II No. 01 RT. 01/01, Kelurahan Gelora Kecamatan Tanah Abang, Jakarta Pusat 10270 – INDONESIA Telp. (021) 3972-9191 (hunting). Fax. (021) 3972-9195





BS-380Chemistry 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)



Reaction tray

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



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



Multi-functional sampling probes

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



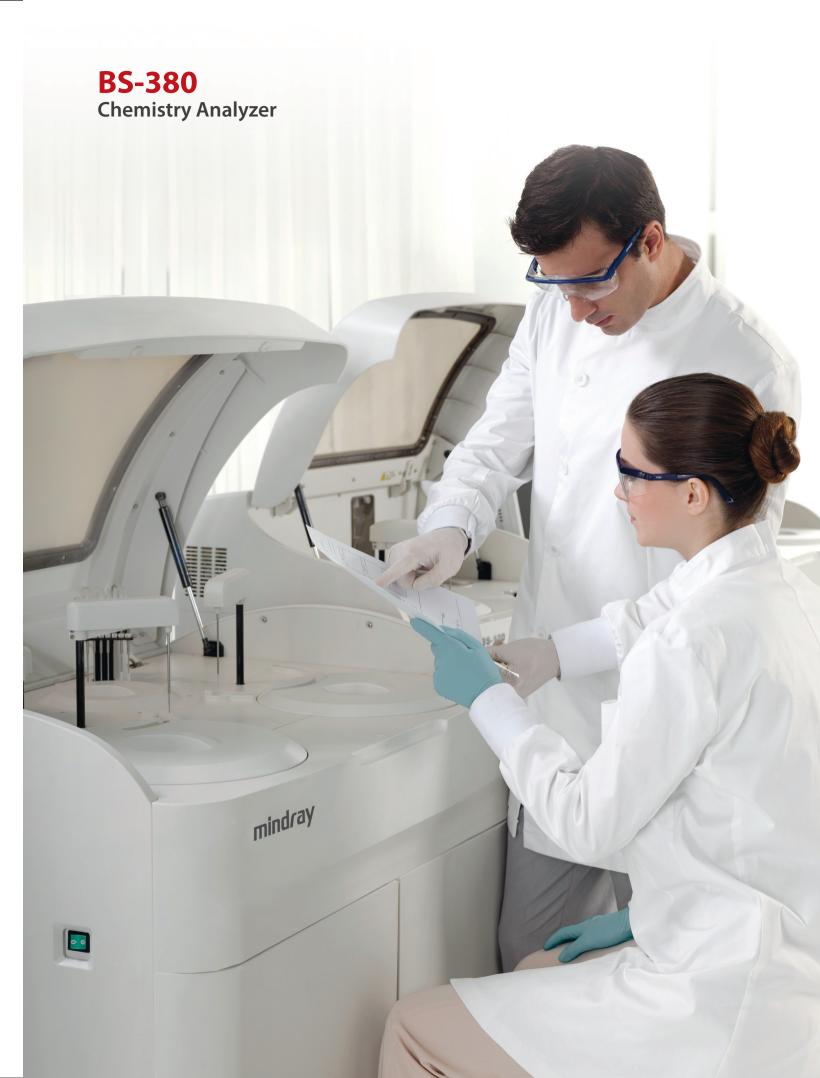
Washing station

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



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)



Mindray solution for clinical chemistry

After more than 10 years of research and development on reagents, Mindray can now provide 48 parameters of dedicated reagents(more than 17 others are coming), covering hepatic, renal, cardiac, lipids, diabetes, pancreatitis, inorganic ions and immunalassays, etc.,together with original calibrators with metrological traceability as well as controls for BS-380 chemistry analyzer.





Mindray solution for clinical chemistry





Original Calibrators with traceability:

Reference Method (Certified by 'Joint Committee for Traceability in Laboratory Medicine' (JCTLM))

- International Federation of Clinical Chemistry and Laboratory Medicine (IFCC)
- National Institute of Standards and Technology(NIST)
- Centers for Disease Control and Prevention (CDC, USA)
- American Association for Clinical Chemistry (AACC)

Reference Material

- Institute for Reference Materials and Measurements (IRMM) standards
- National Institute of Standards and Technology (NIST) standards
- World Health Organization (WHO) standards
- Japan Committee for Clinical Laboratory(JCCLS) standards



PT. MULTIMEDILAB KARYAMANDIRI MEDICAL & LABORATORY EQUIPMENTS

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Chemistry Reagents

Hepatic

Alanine Aminotransferase (ALT)

Aspartate Aminotransferase (AST)

Alkaline Phosphatase (ALP)

γ-GlutamylTransferase (γ-GT)

Direct Bilirubin (D-Bil) DSA Method

Direct Bilirubin (D-Bil)VOX Method

Total Bilirubin (T-Bil) DSA Method

Total Bilirubin (T-Bil)VOX Method

Total Protein (TP)

Albumin (ALB)

Total Bile Acids (TBA)

Prealbumin (PA)

Cholinesterase (CHE)

Adenosine deaminase (ADA) *

α-L-fucosidase (AFU) *

5'-nucleotidase (5'-NT) *

Renal

Urea (UREA)

Creatinine (CREA) Modified JafféMethod

Creatinine (CREA)Sarcosine OxidaseMethod

Uric Acid (UA)

Carbon dioxide (CO2)

Microalbumin*

 β 2-Microglobulin (β 2-MG) *

Cystatin C (CysC) *

Cardiac

Creatine Kinase (CK)

Creatine Kinase-MB (CK-MB)

Lactate Dehydrogenase (LDH)

 α -Hydroxybutyrate Dehydrogenase(α -HBDH)

Homocysteine (HCY)

Myoglobin*

Ferrum

Iron (Fe)

Ferritin (FER) *

Transferrin (TRF) *

Total iron binding capacity / unsaturated ironBinding capacity (TIBC/UIBC) *

Lipids

Total Cholesterol (TC)

Triglycerides (TG)

HDL-Cholesterol (HDL-C)

LDL-Cholesterol (LDL-C)

Apolipoprotein A1 (ApoA1)

Apolipoprotein B (ApoB)

Lipoportein(a) [LP(a)]

Pancreatitis

 α -Amylase (α -AMY)

Lipase (LIP)

Diabetes

Glucose (Glu) GOD-POD Method

Glucose (Glu) HK Meth

Hemoglobin A1c (HbA1c)

Fructosamine (FUN)

Inorganic ions

Calcium (Ca)

Magnesium (Mg)

Phosphate Inorganic (P)

Rheumatism

High sensitivity C-reactive protein (hs-CRP) *

Rheumatoid Factor (RF)

Antibodies Against Streptolysin O (ASO)

Immune

Immunoglobulin A (IgA)

Immunoglobulin G (IgG)

Immunoglobulin M (IgM)

Immunoglobulin E (IgE) *

Complement C3 (C3)

Complement C4 (C4)

C-Reactive Protein (CRP)

Others

Glucose-6-phosphate dehydrogenase (G6PD) *

D-dimer*

Angiotensin converting enzyme (ACE) *

Retinol binding protein (RBP) *

D3-hydroxybutyric acid (D3-HB) *

^{*} Coming soon