



SAL 6000

Modular System



mindray
healthcare within reach

Seamless Integration



SAL 6000 Modular System delivers fast throughput and seamless integration with the SAL 6000 System. In conjunction with the SPL 1000 Sample Processing System, the system provides a laboratory operator experience.

Workflow Optimization



ation of CL-2000i Chemiluminescence Immunoassay System and BS-800 Modular
his scalable platform not only provides optimized workflow, it also offers satisfac-

SAL 6000

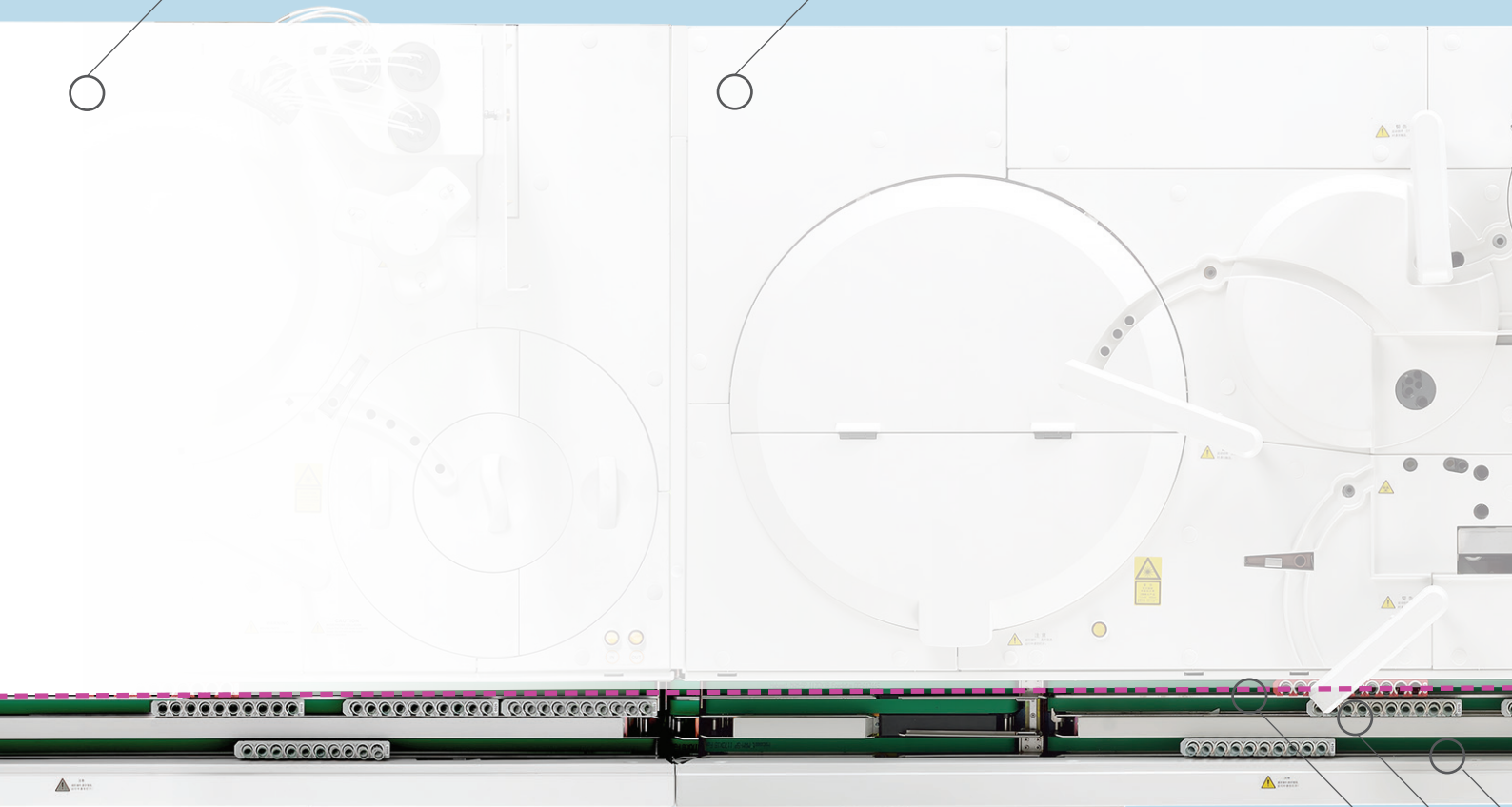
Modular System

Chemistry Module

800 photometric tests per hour, 600 ISE tests per hour
Up to 71 onboard chemistries
140 positions of integrated sample carousel

Chemiluminescence Immunoassay Module

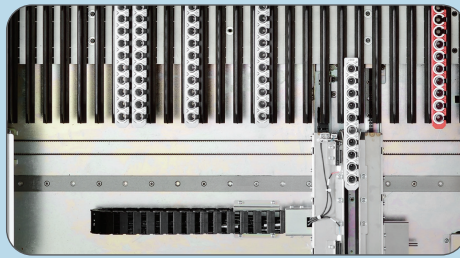
New generation of ALP + AMPPD platform
Up to 240 tests per hour
36 positions for reagent kits



SPL 1000 Sample Processing System

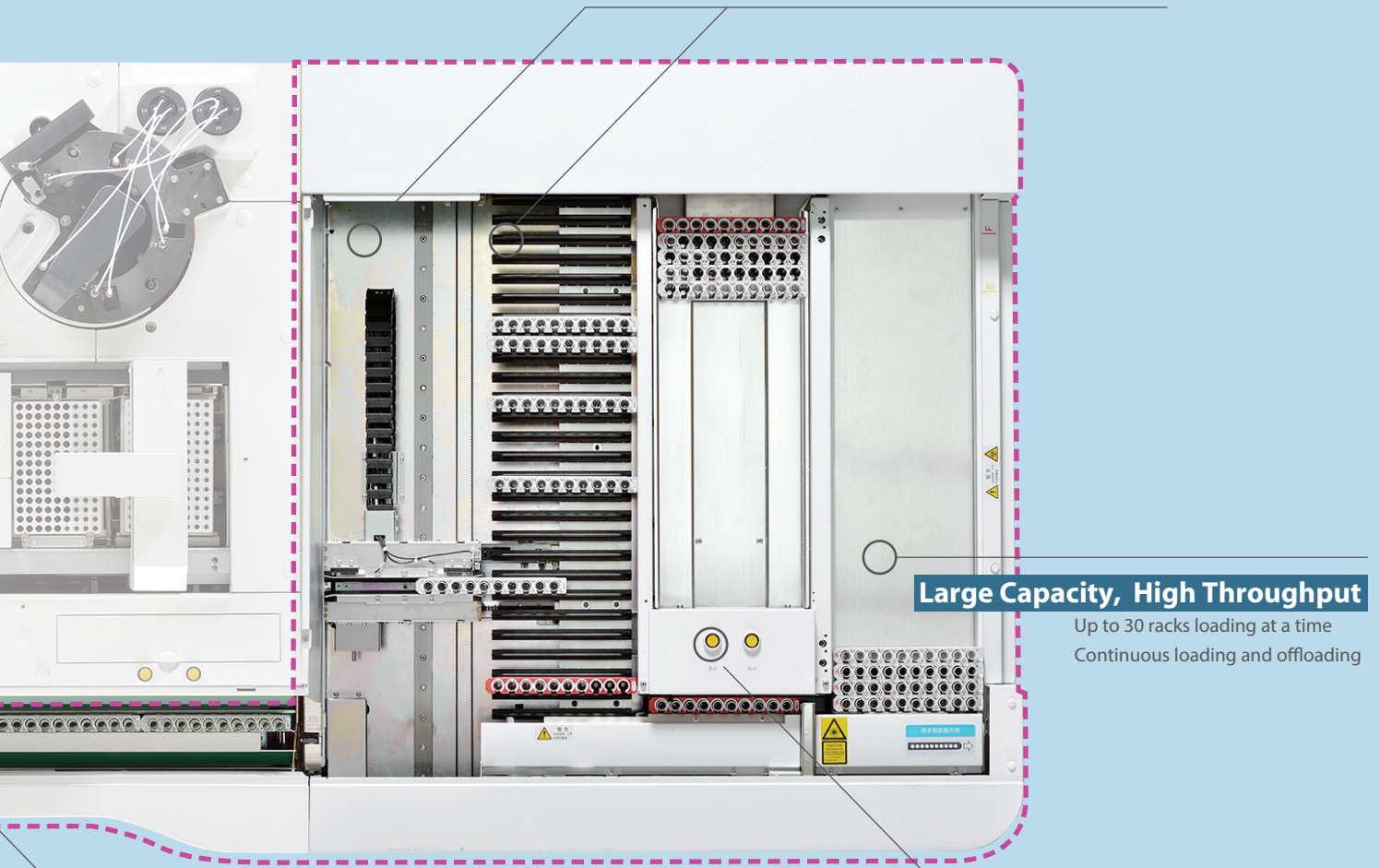
SPL 1000 Sample Processing System, also known as Rack Feeder System; is intended for automatic transfer of laboratory samples among the connected BS series chemistry analyzers and CL series chemiluminescence analyzers.





Unique Design, Effective Distribution

Uniquely designed rack delivery mechanism with manipulator assembly
Random access and efficient sample racks distribution
Up to 10 channels can be customized for STAT racks
Quick response for STAT, Auto-Rerun and Reflex tests

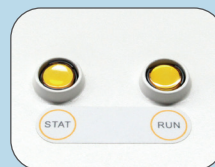


Large Capacity, High Throughput

Up to 30 racks loading at a time
Continuous loading and offloading

Triple Lanes Design, Clear Designation

Passing Lane: Designate for STAT racks fast delivery, and for routine sample racks passing directly to chemistry module
Normal Lane: For Calibrator, QC, Rerun, Routine sample racks delivery
Return Lane: For all racks returning to the buffer area



Fast STAT, Quick Response

Dedicated STAT Key and Passing Lane combo on SPL1000 greatly enhanced STAT samples delivery
Dedicated passing lane delivers STAT racks directly to the module for tests

Uniform Software Interface, Easy to Operation

The user-friendly interface of Mindray IVD systems, namely CL-2000i, BS-2000M series, BS-800M series, BS-480 and future systems; and their intuitive operation commands dramatically reduce operator training hour.

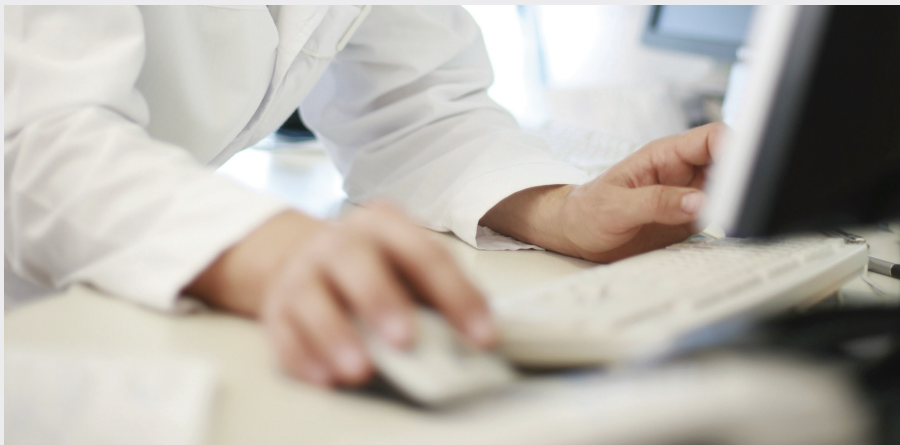


Integrated Carry-over Prevention Program for Chemistry and Immunoassay Tests

- Carry-over prevention algorithm for chemistry and immunoassay tests
- Special carry-over prevention program for high sensitive immunoassay among modules
- Intelligent rack distribution principle for high sensitive immunoassay
- Enhanced probe washing reduces sample/reagent cross contamination

Auto-Rerun and Reflex Tests

- Pre-defined reflex and rerun tests will be performed automatically when preset criteria is met
- Quick response for auto-rerun and reflex tests by intelligent rack distribution



Test Summary Function

- Test summary of certain period, including calibration, QC, samples, valid tests and rerun tests
- Built-in cost/test analysis, users may define computation within given period
- Archive reports available in excel files for printing, review and future reference

Real-time Monitoring

- Onboard calibration and QC status monitoring
- Real-time status monitoring of reagents, consumables and waste
- Alarm alert during malfunction, invalid operation and abnormal system status

Step-by-Step Maintenance Guide

- Easy to follow maintenance guide and online schedule indicators
- Ensures performance reliability; reduces unnecessary service calls
- Error log transferrable to service engineers for immediate trouble shooting which minimizes instrument downtime

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Outstanding Performance, First-class Quality

Integration without Compromise

Outstanding turnaround time and total throughput

Fast and consistent STAT tests regardless of routine workload

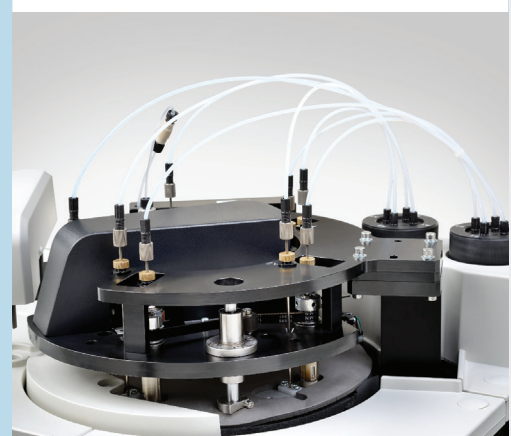
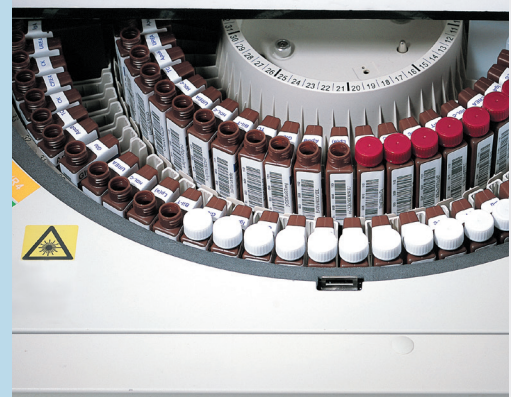
Excellent carry-over prevention for highly-sensitive immunoassay tests

One Tube Sampling, Flexible to Test

For samples which chemistry tests and immunoassay tests are both requested, the system supports one tube sampling, without additional sample aliquote

One Platform, One Interface

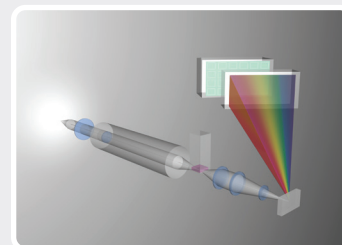
Single user interface; simplifies workflow and enhances productivity.



Technology and Quality Heritage

Enhanced Optical System

- Dual-lens and dual-diaphragm technology for chemistry systems
- Optimized PMT technology for immunoassay system
- Proven technology minimizes stray light
- Dedicated design to ensure optical reading precision and stability



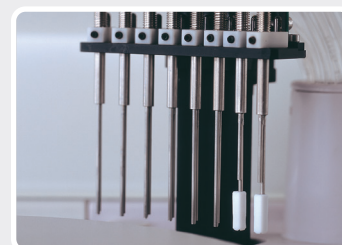
High Precision Aspiration

- Precisely controlled syringe motors offer high precision aspiration
- Liquid level detection, clot detection, bubble detection function
- Intelligent vertical and horizontal collision protection
- Automatic recovery from collision without machine stopping



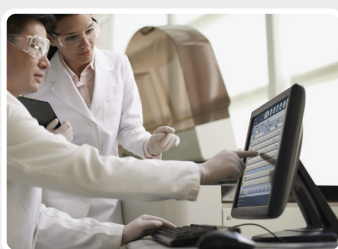
Efficient Wash System

- Interior & exterior probe wash with high pressure water
- Programmable enhanced probe wash with detergent
- Efficient cuvettes and mixers washing for chemistry module
- Precision control on the tubing system for washing liquid



Stable Temperature Control

- Proven precisely controlled thermal engineering
- Solid-direct heating technology for reaction cuvettes without any liquid
- Stable temperature control for reagent cooling compartment



Consistent Software Interface

- User-friendly interface
- Intuitive software navigation
- Large command keys simplifies easy touch screen operation



Original Manufacturer for Reagents and Instrumentation

- High precision hardware
- Premium quality reagents
- Complete traceability
- Dedicated standardization & traceability laboratory



Whole Blood HbA1c Test*

BS-800 module supports Whole Blood HbA1c test, which avoids manual pretreatment of the blood cells; and eliminates error by manual operation.

Mindray enzymatic method HbA1c test, with application of specified protease and Fructosyl Peptide Oxidase (FPOX), has good correlation with HPLC method, proven precision and specificity, better performance to avoid interference from hemoglobin variants, also can be traceable to IFCC/NGSP/JCCL reference methods.

* In Development

Flexible Scalability, On-site Upgrading

Current instruments of BS-800M series and CL-2000i can be upgraded to SAL 6000 Modular System at customer site. Also installed SAL 6000 Modular System can be downgraded into independent BS-800M series and CL-2000i according to the customer's requirement.



CL-2000i



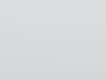
BS-800+CL-2000i



BS-800M

*Combinations are not limited by the items above.

Mindray chemistry & chemiluminescence test menu

Anemia		Vitamin, B12, Ferritin(CLIA), Ferritin, RBC, Folate, Fe, TRF, Ferritin, UIBC, G6PD
Liver Fibrosis		
Thyroid Function		Thyroid, T3, T4, FT3, FT4, TSH, TG, Anti-TG, Anti-TPO, rT3*, TRAB*
Tumor Marker		CEA, AFP, CA125, CA15-3, CA19-9, FPSA, TPSA, NSE, CA72-4, Cyfra 21-1, PG I*, PG II*, SCCA*, CA50*, ProGRP*, HE4*, CA242*
Hepatic		ALT, AST, ALB, Prealbumin, TBA, ALP, T-Bil, D-Bil, TP, AFU, CHE, GGT, 5'NT
Electrolyte		Mg, CO2, P, Ca, Na, K, Cl
Infectious		HIV Combo, Anti-HCV, Anti-TP, HBsAg, Anti-HBc, Anti-HBs, HBeAg, Anti-HBe, ※Anti-HBc IgM, HBeAg Quantitative*, ADA
Renal		MALB, Uric Acid, Urea, Crea, RBP, β2-MG, TP U/CSF, Cys-C
Fertility		DHEA-S PCT, Prolactin, PROG, β-HCG, E3, LH, FSH, E2, TESTO, free Testo*, 17α-OH PROG*, SHBG*
Endocrinology		
Growth Hormone		Lipase, a-AMY, ACTH, Cortiso
Down's Syndrome		hGH*, AMH*, IGF-1*
Diabetes		PAPP-A* Free β-HCG*
Cardiac		Insulin, C-peptide, FRUC, Glu, HbA1c, β-HB
Metabolic		CK-MB(Mass), MYO, Troponin I, BNP, AngiotensionI*, Angiotension II*, Renin*, Aldosterone*, HCY, ApoA1, ApoB, TriG, LDL-C, HDL-C, CHOL, D-dimer, a-HBDH, Lp(a), LDH, Hs-CRP, CK-MB, CK
Inflammation		Vitamin D Total, PTH, Calcitonin
		IgA, IgG, IgM, IgE, CRP, C3, C4, RF, ASO, PCT

SAL 6000

Modular System

Specification

Item	SAL 6000	SDM	CL-2000i *	BS-800 *
Length(mm)	3935	920	1445	1570
Depth(mm)	1016	1016	1016	980
Height(mm)	1145	1145	1145	1145
Weight(kg)	1078	178	450	450

Power Supply Requirement

Item	SPL 1000	CL-2000i *	BS-800 *
Power supply	110V: 110V/115V~, 60Hz 220V: 220V-240V~, 50Hz, 220V/230V~, 60Hz		
Voltage fluctuation	±10%		
Input power	800VA	≤3200VA	≤3000VA

Operating Environment

Item	SPL 1000	CL-2000i *	BS-800 *
Temperature	15°C~30°C		
Humidity	35%RH~85%RH, without condensation		
Altitude Height	-400m~4000m, external vacuum pump is required for areas with altitude above 2000m for each module (except SPL 1000)		

*To be assembled together with Rack Transfer Unit of SPL 1000 during shipment.



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