



XS-1000i™ Automated Hematology Analyzer

Small Footprint. Big Difference.



Small But Powerful: The XS-1000i

Even with these challenges, the need for hematology testing has remained steady or continues to grow. Laboratories are searching for hematology analyzers that can improve productivity and efficiency while providing enhanced clinical information. Designed to be reliable and efficient, the Sysmex XS-1000i offers laboratories an automated hematology system that can truly meet and exceed their expectations. The XS-1000i streamlines your workflow by providing testing for up to 60 samples per hour, enabling rapid turnaround time.

XS-1000i without Auto Sampler



Today's Laboratory Challenges

Laboratories have continued to face a number of challenges for several years. These include clinical, operational and financial issues such as:

- Demand for clinically relevant information
- Medical technologist labor shortage
- Increased workload
- Need for faster turnaround time
- Requirement for high reliability
- Limited laboratory budgets

Proven Technology

The proven technologies – Fluorescent Flow Cytometry, Hydrodynamic Focusing and Non-cyanide Hemoglobin – of the XE and XT-Series have been incorporated into the XS-1000i Automated Hematology Analyzer.

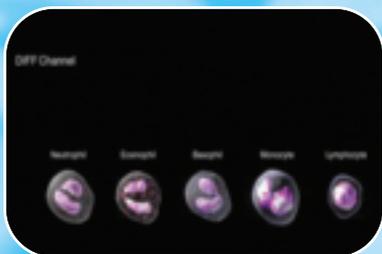
Leading-edge hematology diagnostics requiring only four feet of counter space:

- Effective diagnostic capabilities utilizing Fluorescent Flow Cytometry
- CBC with 5-part differential
- Simplicity in operation for streamlined workflow
- Standardization across Sysmex platforms
- Proven reliability as a member of the X-Series of products

Advanced Parameters In One Comprehensive System



Conversion to SLS-Hgb



Adaptive Cluster Analysis System (ACAS)

RBCs and PLTs

RBCs and PLTs are counted in a dedicated channel using Impedance or Direct Current (DC) detection method combined with hydrodynamic focusing technology. Challenges to cell counting such as coincidence or recirculation are circumvented and automatic discriminators separate the two cell populations.

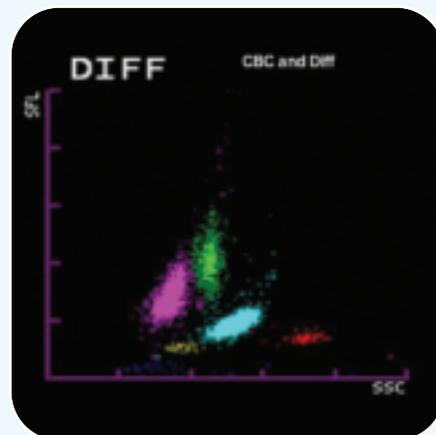
Even with samples at extremely low or unusually high concentrations, the Sysmex system analyzes RBCs and PLTs with uncompromised precision and accuracy.

High Quality Hemoglobin (HGB) Analysis

The XS-1000*i* utilizes the cyanide-free reagent, Sodium Laurel Sulfate (SLS). The end product is a colored compound that is measured spectrophotometrically. Since hemoglobin determinations are performed from a dilution and in its own separate chamber, there is no interference from high WBC counts, lipemia or abnormal proteins.

Direct Hematocrit (HCT) Measurement

The cumulative pulse heights of all the RBC counts yield the HCT. This is based on the principle that the pulse height (voltage change) produced by cells passing through the aperture is proportional to cell volume.



WBC Differential Scattergram

WBC a Clear Differentiation

The combination of side scatter (cell complexity), forward scatter (size) of nucleated cells provides a concise and precise image of each detected peripheral blood cell.

This 3-dimensional blood cell analysis provides unique accuracy and precision. Fluorescence labeling of peripheral blood cells is a milestone for the routine leukocyte differential.

Fluorescent technology enables the XS-1000*i* to reliably differentiate normal WBC populations from abnormal WBC populations. The sensitivity of the unique application of fluorescent flow cytometry gives the lab a high level of confidence in reporting accurate WBC differentials, even on critical patient samples when the WBC count is low.

Big Benefits For Small Labs

Reliable Performance

- > 1000 XS-1000i analyzers installed in North America
- SNCS, remote monitoring, to provide maximum uptime
- Technical support available 24-hours / day
- Ranked by independent third party as highest vendor for reliability for 12 consecutive years*

*2011 IMV ServiceTrak™

Reportable, Diagnostic Information from a Single Sample Analysis

- Fluorescent flow cytometry for WBC count and differential
- 5-part whole blood WBC and differential (NEUT + LYMPH + MONO + EO + BASO)
- Hydrodynamic focused flow cell counting for RBC and PLT
- Low sample volume requirements; minimum 20µL whole blood

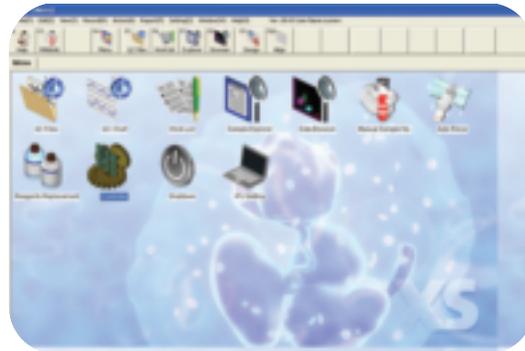
Streamlined Workflow

- True walk-away analytical process with closed tube auto sampling
- Push button, walk-away daily maintenance
- Standardization with other Sysmex solutions for multi-hospital sites
- Can be used in conjunction with Sysmex WAM™ Decision Support Software for the Clinical Laboratory

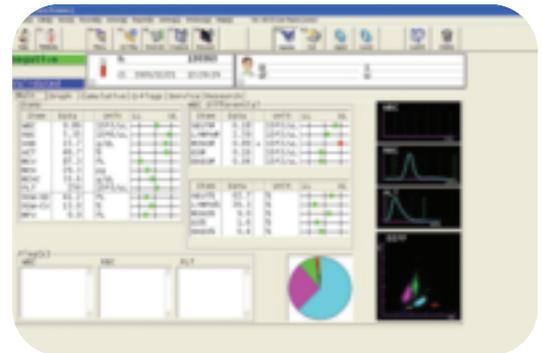
Easy-to-use

- Intuitive software menus
- Barcoded reagent management
- Comprehensive quality control information
- On-board help key for rapid troubleshooting

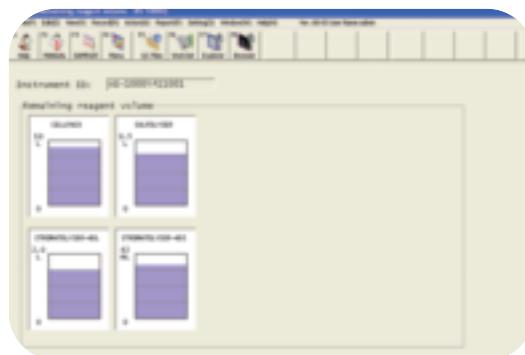
Save Time and Become More Productive with the XS-1000i



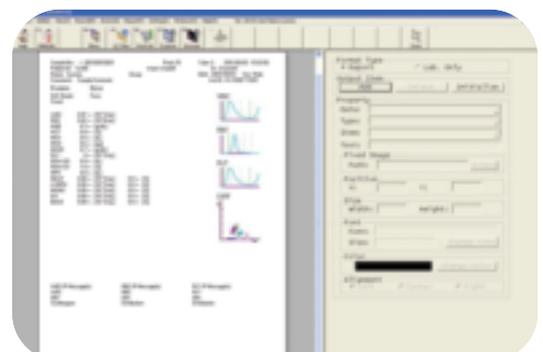
Enhanced productivity with easy-to-use Windows® XP Operating System.



The XS-1000i improves workflow by providing diagnostic alerts including a message on the screen identifying when patient samples are identified as Negative or Positive.



Operation is streamlined with reagent monitoring information displayed for the operator and operational alerts when reagents run low.



The XS-1000i provides customized reporting formats so you can produce comprehensive physician reports that are easy-to-read with numeric and visual depictions.

Peak Performance

***e*-Tools: Assuring Quality and Optimizing Performance**

SNCS™, Sysmex Network Communications System, is proprietary software which enables fast, secure communication from your analyzer to Sysmex servers using a high-speed, outbound internet connection. This powerful tool is the instrument data link feeding a variety of innovative tools and services.

***Insight*™**

Insight is a web-based Interlaboratory Quality Assessment Program (IQAP) that allows on-demand quality control reporting with access anytime, anywhere. Meet requirements to document peer comparison data for your analyzer while eliminating manual steps.

Remote Monitoring

Continuous collection and monitoring of instrument performance data is linked to our tracking and dispatch system. We monitor your instrument performance, instrument configuration settings and back-up settings continuously.

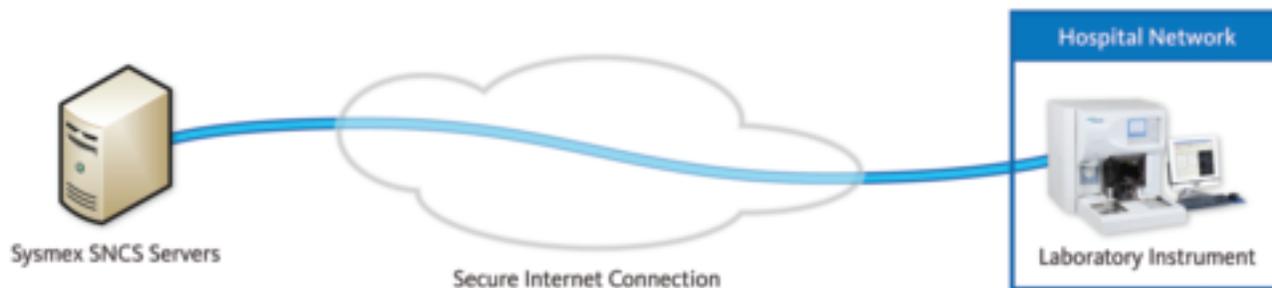
Make your lab more efficient with:

- Unobtrusive, remote and real-time monitoring
- Proactive identification and follow-up of potential issues
- Enhanced first-time field fixes, if needed

***e*-Supply - Reagent Inventory Management**

The *e*-Supply program offers online reagent monitoring that simplifies both ordering and inventory processes. This innovative program helps you:

- Track reagent usage and inventory
- Maintain appropriate inventory levels
- Reduce your shipping cost



Sysmex XS-1000i Specifications

Principles & Technologies

Fluorescent Flow Cytometry:
WBC-Diff
Direct Current – Sheath Flow:
RBC, HCT, PLT
Non-cyanide, Sodium Lauryl Sulfate (SLS):
HGB

21 Whole Blood Reportable Parameters

WBC, RBC, HGB, HCT, MCV, MCH, MCHC,
PLT, NEUT%, LYMPH%, MONO%, EO%,
BASO%, NEUT#, LYMPH#, MONO#, EO#,
BASO#, RDW-SD, RDW-CV, MPV

Linearity

WBC: 0 – 400.00 x 10³/μL
RBC: 0 – 8.00 x 10⁶/μL
HGB: 0 – 25.00 g/dL
HCT: 0 – 60%
PLT: 0 – 5,000 x 10³/μL

Throughput

Single Sample Mode: 60 samples/hour (max.)
Auto Sampler Mode: 53 samples/hour (max.)

Sample Volumes

Closed mode: 20μL
Capillary mode; Pre-dilute: 67μL (1:7 dilution)

Data Storage (IPU: Information Processing Unit)

10,000 samples including histograms

Quality Control (Total QC Management)

Common Quality Control material to
XE and XT-Series
Comprehensive QC files
Levey-Jennings Control Charts
X-barM file
Online Quality Assurance Program

Interfaces

ASTM
Sysmex WAM™ (HL7 & ASTM)

Dimensions/Weight w x h x d [in] / [lbs]

Main Unit:
12.6" x 15.9" x 16.3" / 52.8 lbs.
With Auto Sampler:
16.7" x 15.9" x 24.2" / 74.8 lbs.

Models

XS-1000i
XS-1000i with Auto Sampler (XS-AL)

Sysmex Corporation
1-5-1 Wakinohama-Kaigandori,
Chuo-ku, Kobe 651-0073, Japan
Tel. +81 (78) 265-0521
Fax +81 (78) 265-0530
www.sysmex.co.jp

Sysmex America, Inc.
One Nelson C. White Pkwy,
Mundelein, IL 60060, U.S.A.
Tel. +1 (847) 996-4500
Fax +1 (847) 996-4397
www.sysmex.com/us

Sysmex Canada, Inc.
5045 Oribitor Drive,
Building 9, Suite 401,
Mississauga, ON L4W 4Y4, Canada
Tel. +1 (905) 366-7900
Fax +1 (905) 366-7899
www.sysmex.ca

Sysmex do Brasil Indústria e Comércio Ltda
Rua Joaquim Nabuco, 615 - Bairro Cidade Jardim,
São José dos Pinhais
Paraná - Brasil - CEP 83040-210
Tel. +55 (41) 2104-1314
Fax +55 (41) 2104-1300
www.sysmex.com.br

