XN-1000™

Change the way you perform hematology

sysmex

Together for a better
healthcare journey

Cell analysis in hematology that's one step ahead

The XN-1000 is designed to be a step ahead of hematology analyzers of the past and change the way you perform hematology in the modern clinical laboratory. This compact system offers proven and innovative fluorescent flow cytometry technology that delivers a highly comprehensive CBC and differential.
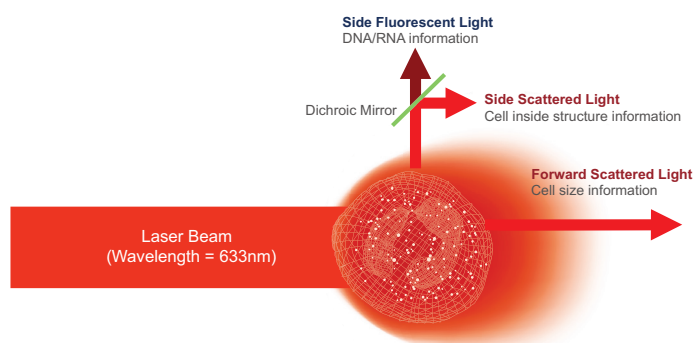
Sysmex Automated Hematology Analyzers Offer Expanded Clinical Value

NRBCs and 6-part differential standard on all models:

- NRBC testing on every CBC; reduces the need for reflex testing or performing automated/manual differentials.

- WBC count does not require correction in presence of NRBCs.

- Automated reportable immature granulocyte count (IG#, IG%) with every automated differential reduces manual review rates.

Fluorescent Platelet Technology[1]:

- Platelet-specific stain greatly reduces interferences from RBC or WBC fragments.

- Can be set up as a reflex test[2] with onboard rules or Caresphere™ Workflow Solution (WS).

Side Fluorescent Light
DNA/RNA information

Side Scattered Light
Cell inside structure information

Dichroic Mirror

Forward Scattered Light
Cell size information

Laser Beam
(Wavelength = 633nm)

Fluorescent Reticulocyte Technology:

- Fluorescent flow cytometry generates reportable RET# and RET%, Reticulocyte Hemoglobin equivalent (RET-He) and Immature Retic Fraction (IRF).

Qualitative Flagging of Immature WBCs:

- The addition of the WPC[1] channel, along with enhanced algorithms, provides better detection of abnormal lymphocytes and blast cells.

Body Fluid Mode[1]:

- Provides WBC (WBC-BF), RBC (RBC-BF), Total Nucleated Cell count (TC-BF), and a two-part WBC differential.

Low WBC Analysis Mode:

- Low WBC mode reduces vote-outs and manual reviews.

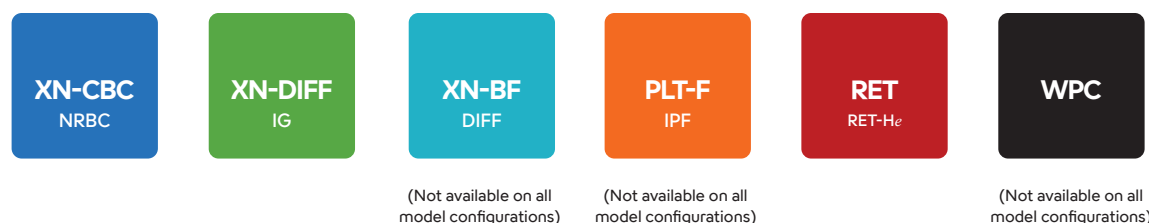- Can be set up as a reflex test[2] with onboard rules or Caresphere WS.

Pre-Dilute Mode:

- Allows testing to be performed on samples of whole blood that are diluted with CELLPACK™ DCL.

*1 Channel not available on all model configurations

*2 Automatic reflex sample analysis is not available on all module configurations

XN-CBC	XN-DIFF	XN-BF	PLT-F	RET	WPC
NRBC	IG	DIFF	IPF	RET-He	
		(Not available on all model configurations)	(Not available on all model configurations)		(Not available on all model configurations)

Specifications

Principles and Technology	Fluorescent flow cytometry using a semi-conductor laser and hydrodynamic focusing in dedicated channels
Parameters	**Whole Blood:** WBC; RBC; HGB; HCT; MCV; MCH; MCHC; PLT (PLT-I, PLT-F[1]); NEUT#, NEUT%; IG#, IG%; LYMPH#, LYMPH%; MONO#, MONO%; EO#, EO%; BASO#, BASO%; NRBC#, NRBC%; RDW-SD; RDW-CV; MPV; RET#, RET%; IRF, RET-He; IPF#[1], IPF%[1] **Body Fluid[1]:** TC-BF, WBC-BF, RBC-BF PMN #, PMN%, MN #, MN%
Throughput	Whole Blood Mode: up to 100 CBC+DIFF samples/hour per module Body Fluid Mode[1]: up to 40 samples/hour per module
Sample Aspiration Volume	Whole Blood Mode: 88 μL Low WBC Mode: 88 μL Pre-dilute Mode: 70 μL Body Fluid Mode[1]: 88 μL
Linearity	WBC: $0.00 - 440.00 \times 10^3/\mu L$ RBC: $0.00 - 8.60 \times 10^6/\mu L$ PLT: $0 - 5{,}000 \times 10^3/\mu L$ WBC-BF[1]: $0.000 - 10.000 \times 10^3/\mu L$ RBC-BF[1]: $0.000 - 5.000 \times 10^6/\mu L$
Quality Control	• XN CHECK™: complete tri-level QC product for all CBC, Diff, PLT, and RET parameters • XN CHECK™ BF: bi-level QC product for Body Fluid channel • Comprehensive QC files including current and new lot feature • 99 total files including 5 XbarM files • *Insight*™ web-based Interlaboratory Quality Assessment Program (IQAP) • BeyondCare℠ Quality Monitor (BCQM) provides real-time peer group analytics and advanced troubleshooting assistance in a simplified platform

*1 Channel not available on all model configurations

Specifications

	XN-1000 R	XN-1000 BR	XN-1000 PR	XN-1000 BPR	XN-1000-010
Model ID	XN-1000-100-R-01	XN-1000-100-BR-01	XN-1000-100-PR-01	XN-1000-100-BPR	XN-1000-010
Components					
XN-10 or XN-20	XN-10	XN-10	XN-10	XN-10	XN-20
Automated reflex/rerun	0	0	0	Included	Included
Reticulocyte License (R)	Included	Included	Included	Included	Included
Body Fluid License (B)	0	Included	0	Included	Included
Fluorescent Platelet (P)	0	0	Included	Included	Included
WPC Channel	0	0	0	0	Included
Floor-standing wagon option			Available		
Analyzer Dimensions		20.5"(W) X 26.6" (D) X 33.0" (H); 150LBS			25.4" (W) X 29.7" (D) X 33.7" (H); 172 LBS

Analyzer on Wagon Dimensions — 25.4" (W) X 36.8" (D) X 61.5" (H); 350 LBS