

BC 6200

AUTOMATIC HEMATOLOGY ANALYZER

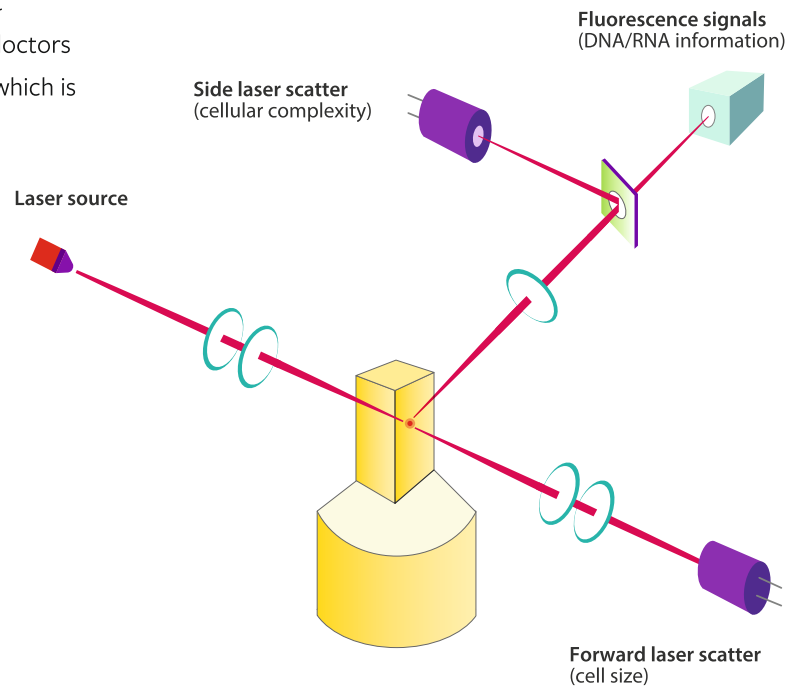
Improved clinical diagnosis with an easy to use intuitive system.



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AUTOMATIC HEMATOLOGY ANALYZER

With the newly designed optics and reagent systems, the SF Cube technology can help doctors to better differentiate the clusters of cells, which is the key to revealing more abnormal cells.

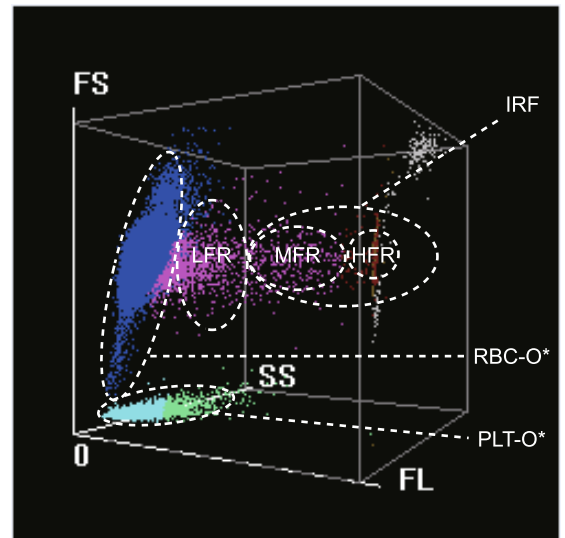


Improved Clinical Diagnosis - RET Channel & Body Fluids

RET CHANNEL

With the SF Cube cell analysis technology, Reticulocytes are differentiated from the other red cells by their reaction with fluorescent stain. Besides the traditional parameters such as RET# and RET%, BC-6200 provides data concerning immature reticulocytes (IRF), which can assist in early diagnosis of anemia and monitoring the bone marrow response to therapy.

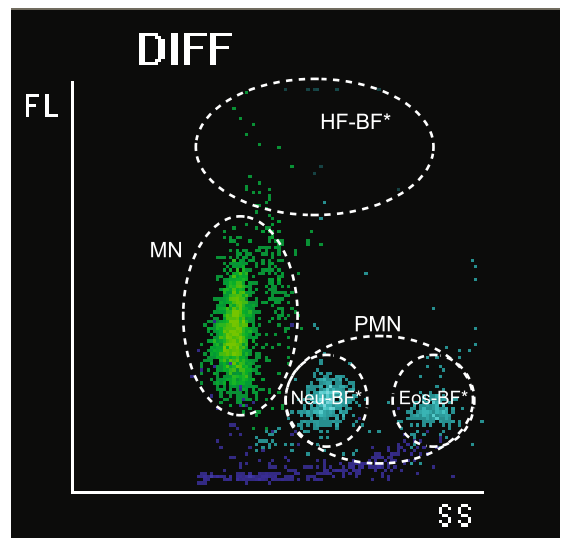
** For Research Use Only*



BODY FLUIDS

Besides blood specimen, BC-6200 also has body fluid test function without requiring dedicated reagent. The various types of body fluids include Peritoneal fluid, Pleural fluid, Cerebrospinal fluid (CSF) and Synovial fluid.

BC-6200 can analyze CSF and serous fluid samples to provide reportable parameters for RBC, WBC, WBC differential (polymorphonuclear & mononuclear) and total cell count (TC-BF).



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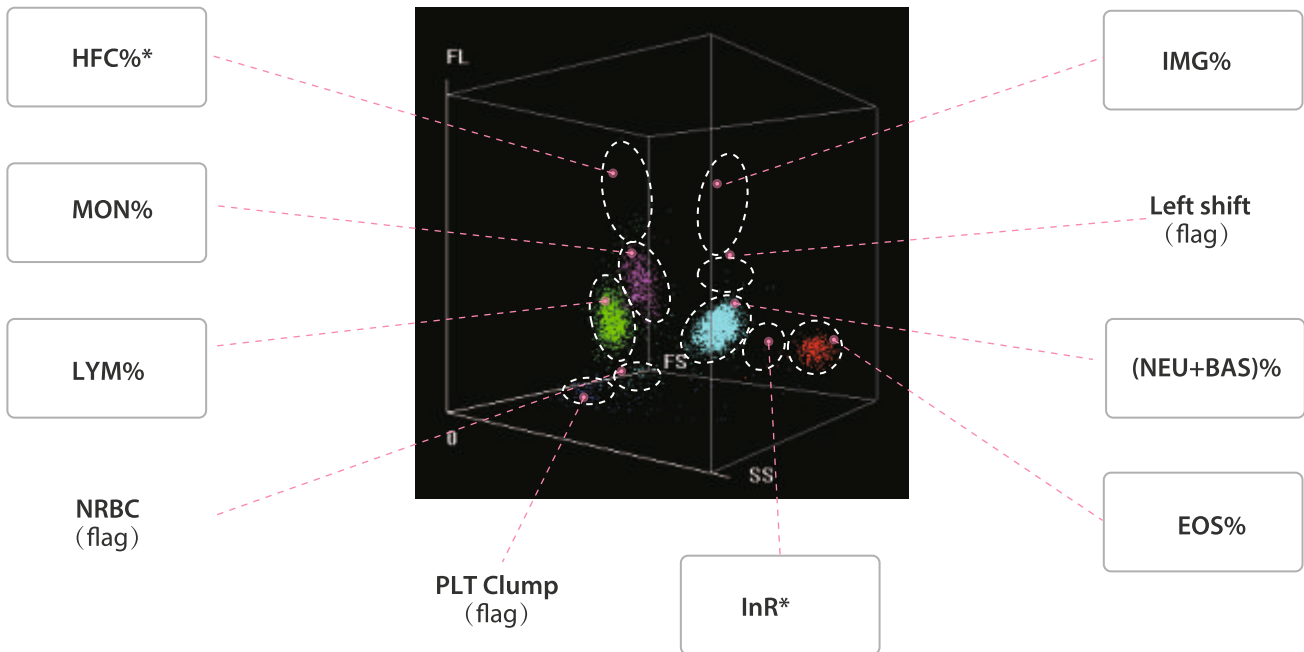
Moreover, for research use only, BC-6200 provides differential results for eosinophils, neutrophils as well as high fluorescent cells (HF-BF*), which may include histiocytes, epithelial cells, spleen cells, exfoliated cells etc.

Such additional information improves the possibility of better clinical diagnosis.



Improved Clinical Diagnosis - DIFF Channel

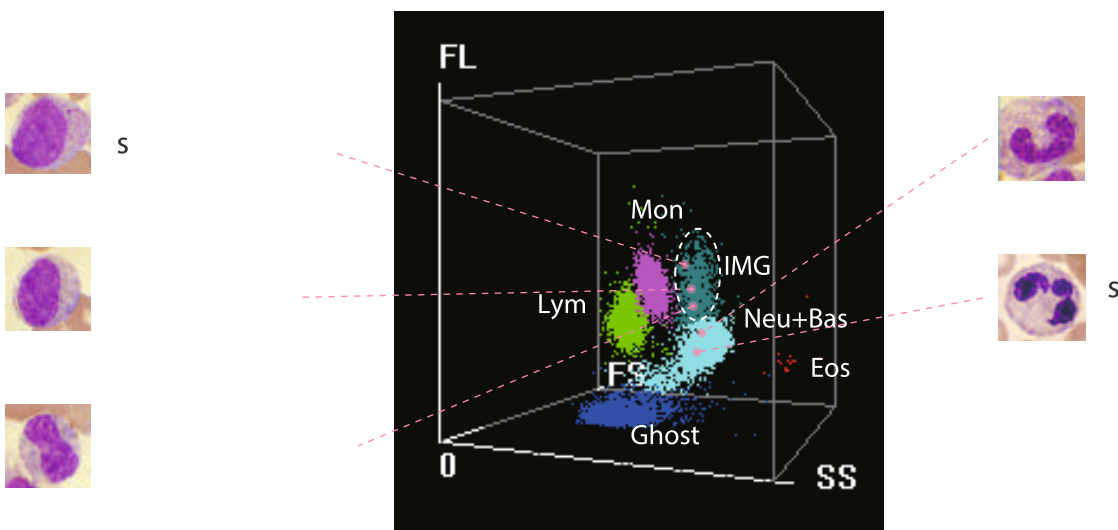
DIFF CHANNEL



In DIFF scattergram, BC-6200 not only gives WBC 5-part differential results (with immature granulocyte), but also brings research parameters such as HFC (Blast & Atypical Lymphocyte), InR (information about malaria) and flags for Band, NRBC, PLT clump and Atypical Lymphocyte.

HFC*(#, %) parameters represent high population of fluorescent cell, such as Blasts and Atypical Lymphocytes.

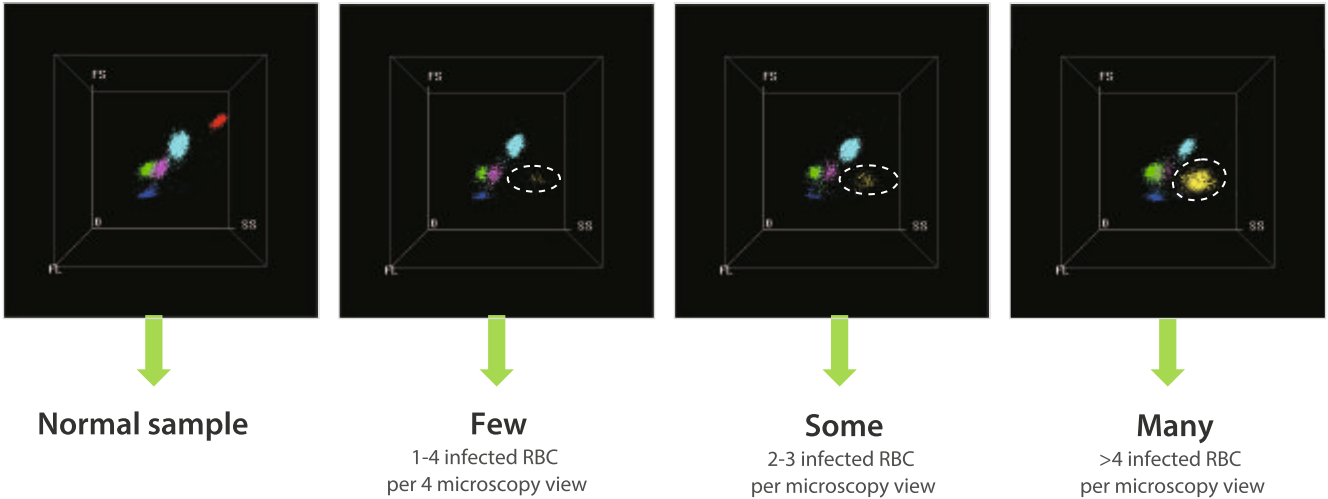
IMG(%, %) parameters provide information about immature granulocytes, including Promyelocytes, Myelocytes, Metamyelocytes, Immature Eosinophils and Immature Basophils.



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Improved Clinical Diagnosis - DIFF Channel

Malaria screening

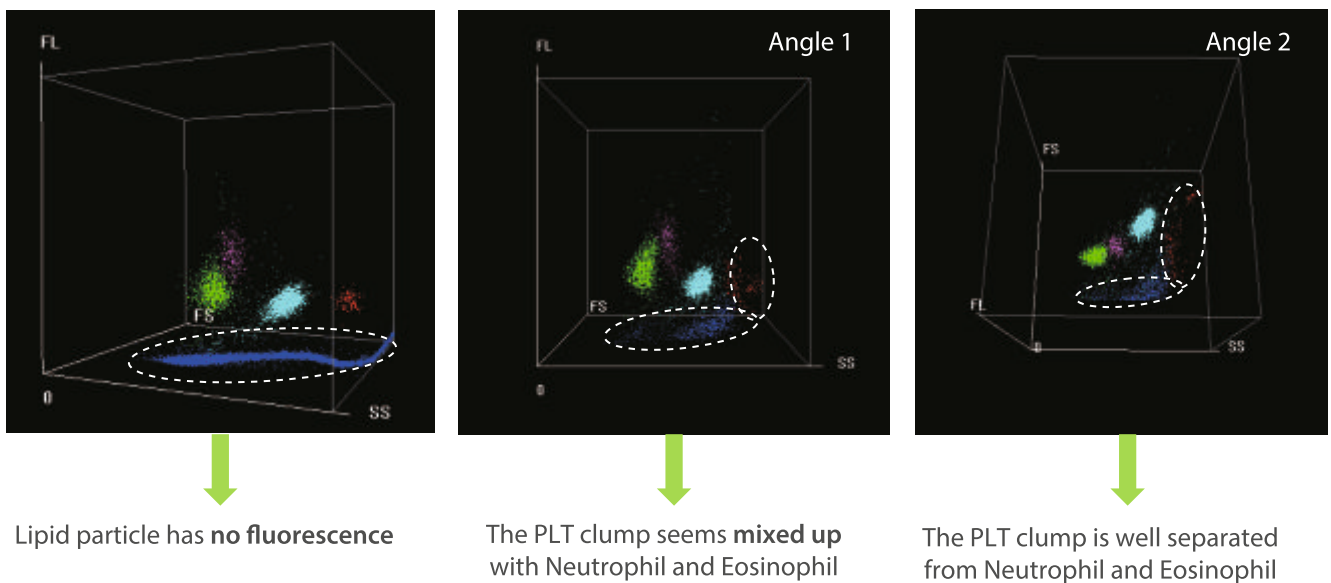


Note: The yellow scatters are just for highlight.

BC-6200 provides a dedicated flag called infected RBC?, and InR*(#,) parameters to represent the number and ratio of the infected red blood cells in the sample respectively. BC-6200 users can obtain information about the possible presence of plasmodium parasite, the causative agent of malaria infection.

With the rising number of red blood cells with malaria parasites, the number of dots in the InR area increases proportionately. This creates the possibility to not only screen but also judge the severity of malaria infection.

Interference prevention



In DIFF scattergram, WBCs are dyed, but not lipid particles, by fluorescence, which prevents interference and ensures more accurate WBC results.

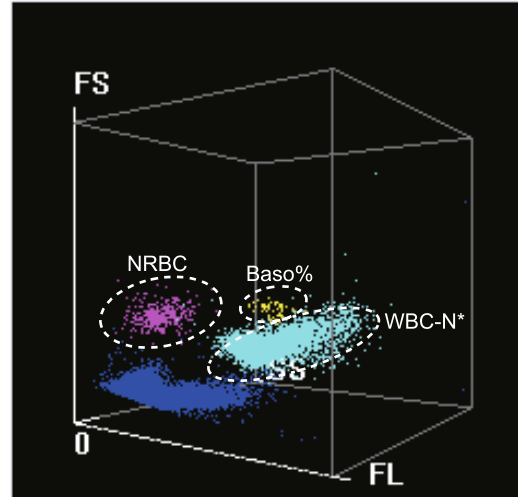
With information obtained through the 3D analysis, PLT clumps are well separated from each cluster of WBCs.

Improved Clinical Diagnosis : WNB Channel

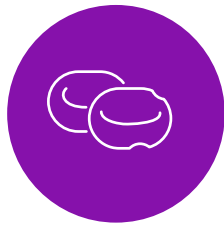
WNB CHANNEL

In WNB scattergram, BC-6200 provides NRBC, Basophils and WBC-N* results. It means that the actual number of NRBCs can be measured in routine CBC, if they are present in the sample. Basophils are counted in this counting channel with NRBC results. Basophil and NRBC results are generated on BC-6200 without extra reagent or cost.

NRBCs do not usually exist in the peripheral blood except that of newborn children. Detection of NRBCs is essential in diagnosing and monitoring the hematopoietic diseases.



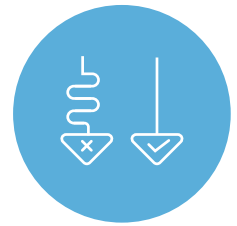
Automatic correction WBC counting, make sure neonatal counting correctly



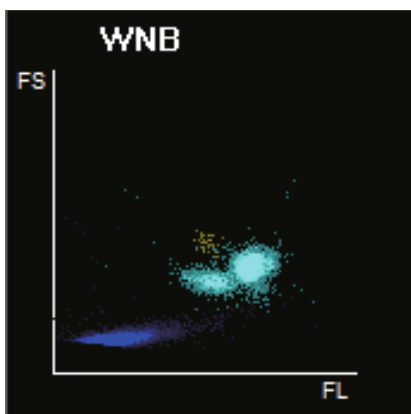
Diagnosis for hemolytic anemia



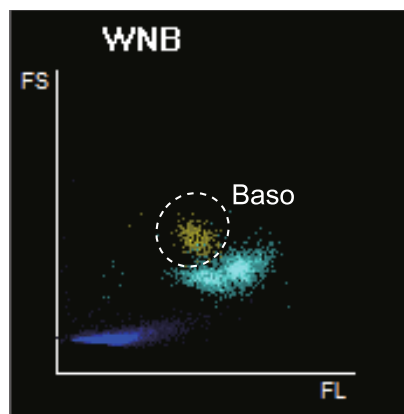
Monitoring of hematopoietic diseases



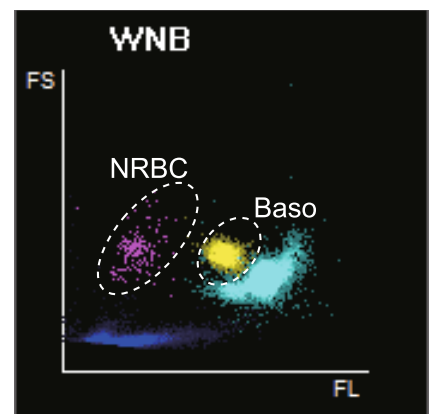
Reduce the ratio of review



Normal sample



High Baso sample



High Baso & NRBC sample

BC-6200 provides accurate results on samples even with high level of Basophils and NRBCs.

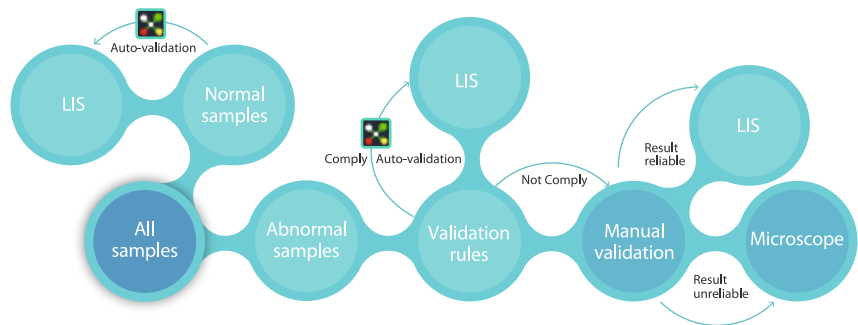
Ease of Use



More intuitive labXpert Software

LabXpert is a standard configuration of BC-6200 for professional data analysis.

The labXpert software optimizes functions to simplify your workflow for data analysis. It improves re-exam efficiency and auto-validation for normal samples; it also provides more intuitive interface for you to review and validate pathological samples.



Automatic rerun and reflex

BC-6200 can load up to 50 samples at a time and offers a throughput of up to 110 tests per hour.

Should the sample results trigger the criteria, the autoloader of BC-6200 can return the sample racks for an automatic rerun or reflex check.



Applicable to a variety of tubes

Different types of blood collection tubes can be used on BC-6200, including regular whole blood vacuum tube, capillary blood microtainer tube and Sarstedt tube.

It requires less sample volume and reagent consumption. For a CBC+DIFF+RET test with NRBC result, BC-6200 only requires 80 μ L of whole blood and 35 μ L of capillary blood.

BC 6200 - Technical Specifications

Principles	Operating environment			
"SF Cube* method to count WBC, 5-part diff, NRBC, RET and PLT-O DC impedance method for RBC and PLT Cyanide free reagent for hemoglobin test. *S: Scatter; F: Fluorescence; Cube: 3D analysis"	Temperature: 15°~32° Celsius Humidity: 30%~85%			
Parameters	Performance			
37 Reportable parameters (whole blood): WBC, Lym%, Mon%, Neu%, Bas%, Eos%, IMG%, Lym#, Mon#, Neu#, Eos#, Bas#, IMG#; RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, NRBC#, NRBC%; PLT, MPV, PDW, PCT, P-LCR, P-LCC, RET%, RET#, RHE, IRF, LFR, MFR, HFR, IPF	Parameter	Linearity Range	Precision	Carryover
29 Research parameters (whole blood): HFC#, HFC%, RBC-O, PLT-O, PLT-I, WBC-O, WBC-D, TNC-D, IME%, IME#, H-NR%, L-NR%, NLR, PLR, WBC-N, TNC-N, InR#, InR%, Micro#, Micro%, Macro#, Macro%, RPI, H-IPF, IPF#, MRV, FRC#, FRC%, PDW-SD	WBC	0-500×10 ⁹ /L	≤2.5% (≥4×10 ⁹ /L)	≤1.0%
7 Reportable parameters (body fluid): WBC-BF, TC-BF#, MN#, MN%, PMN#, PMN%, RBC-BF	RBC	0-8.60×10 ¹² /L	≤1.5% (≥3.5×10 ¹² /L)	≤1.0%
11 Research parameters (body fluid): Eos-BF#, Eos-BF%, Neu-BF#, Neu-BF%, HF-BF#, HF-BF%, RBC-BF, LY-BF#, LY-BF%, MO-BF#, MO-BF%	HGB	0-260g/L	≤1.0% (110-180g/L)	≤1.0%
2 Histograms for RBC and PLT	HCT	0-75%	≤1.5% (30%-50%)	≤1.0%
3 Three-dimension scatter grams: DIFF, WNB, RET	PLT	0-5000×10 ⁹ /L	≤4.0% (≥100×10 ⁹ /L)	≤1.0%
5 Two-dimension scatter grams: DIFF, WNB, RET, RET-EXT, PLT-O	RET#	0-0.8×10 ¹² /L	≤15% (RBC≥3×10 ¹² /L; 1%≤RET%≤4%)	/
Mode	Throughput			
CBC, CBC+DIFF, CBC+DIFF+RET, CBC+RET, RET	Up to 110 samples per hour (CBC+DIFF) Up to 65 samples per hour (RET)			
Data storage capacity	Up to 40 samples per hour (Body fluid)			
Up to 100,000 results including numeric and graphical information	Sample volume			
	Whole blood (Autoloader, Closed Tube)	80uL		
	Capillary blood (Closed Tube)	35uL		
	Predilute (Closed Tube)	20uL		
	Body fluid (Closed Tube)	85uL		
	Loading capacity			
	Up to 50 sample tubes			

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