FusionGreen Healthcare Pvt. Ltd.

We deliver ...

mindray

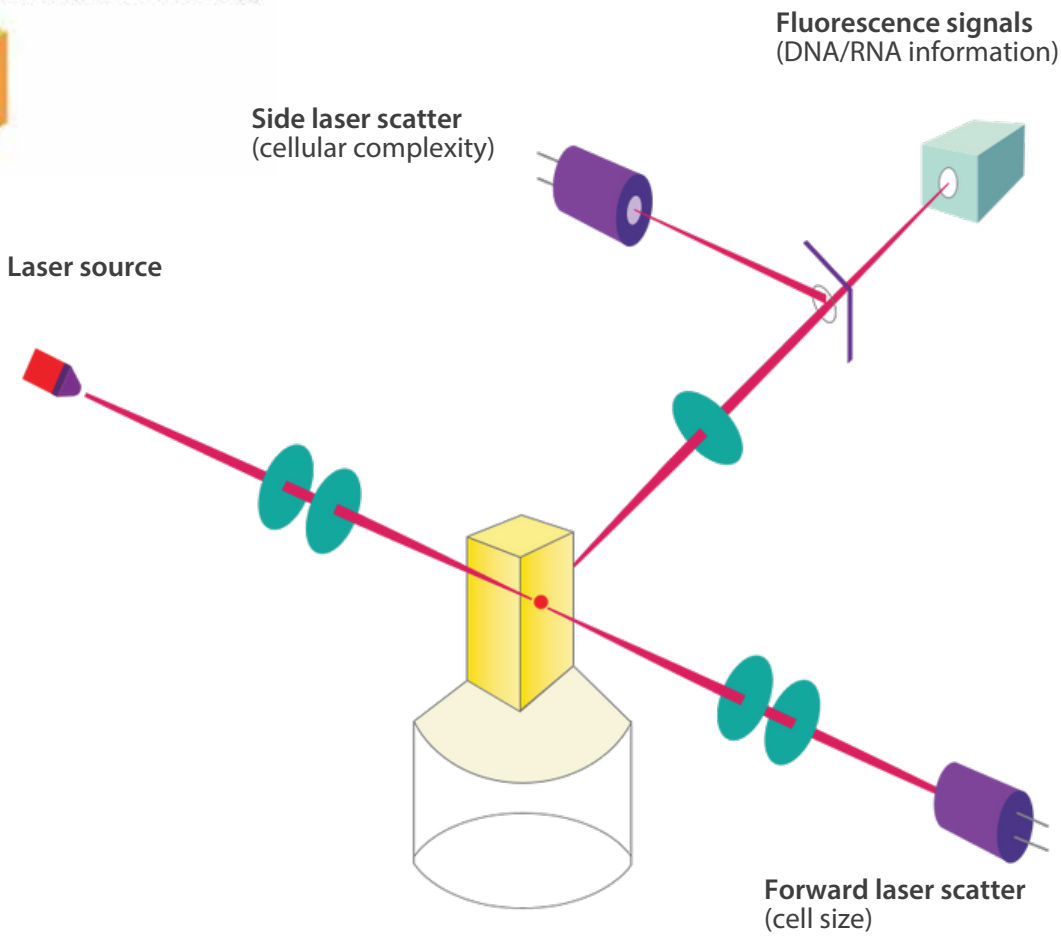
BC-6200

Auto Hematology Analyzer

High Performance for ALL

SF Cube
Cell Analysis Technology

Value



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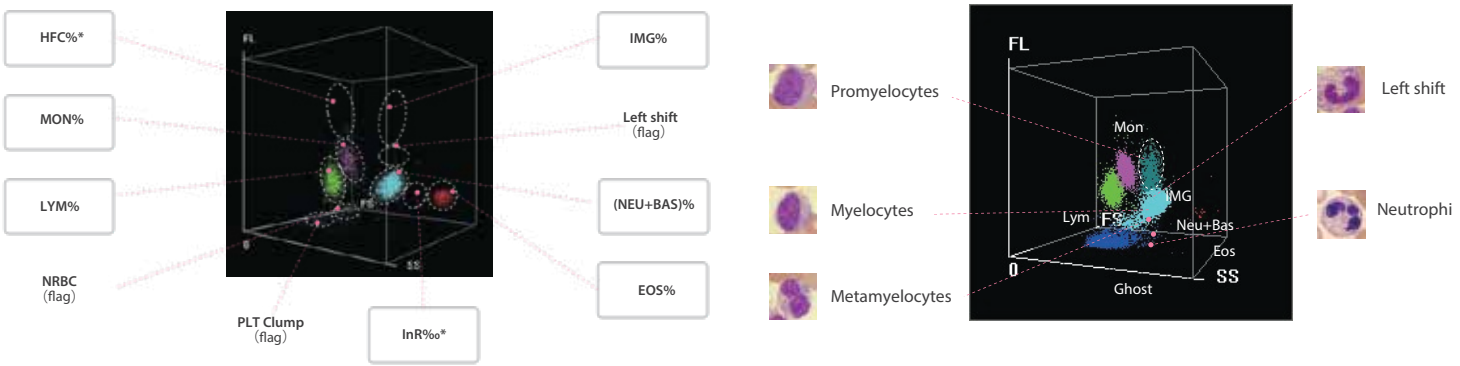
DIFF Channel

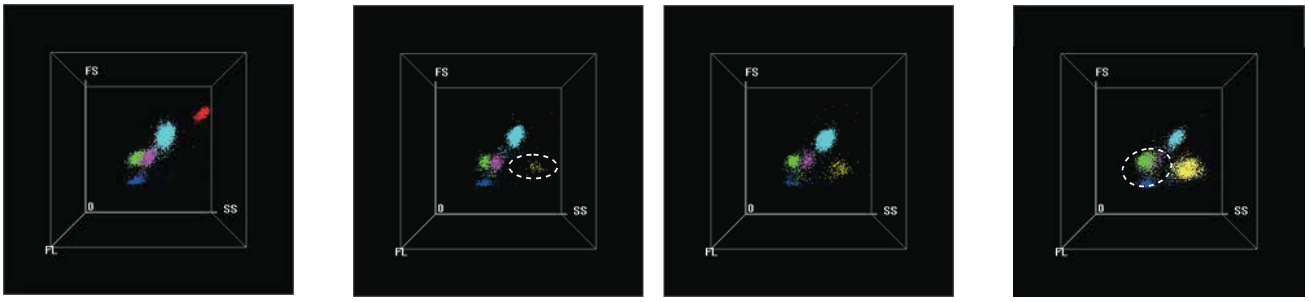


In DIFF scattergram, BC-6200 not only gives WBC 6-part differential results (with immature granulocyte), but also brings research parameters such as HFC (Blast & Atypical Lymphocyte), InR (information about malaria) and flags for Band, NRBC, PLT clump and Atypical Lymphocyte.

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.

Malaria screening



Normal sample

Few
1-4 infected RBC
per 4 microscopy view

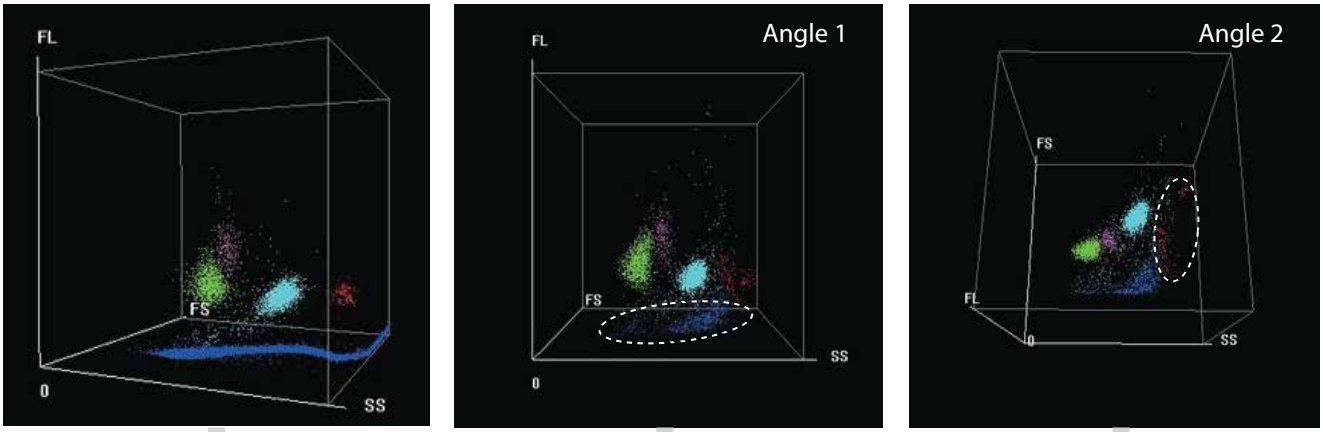
Some
2-3 infected RBC
per microscopy view

Many
>4 infected RBC
per microscopy view

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



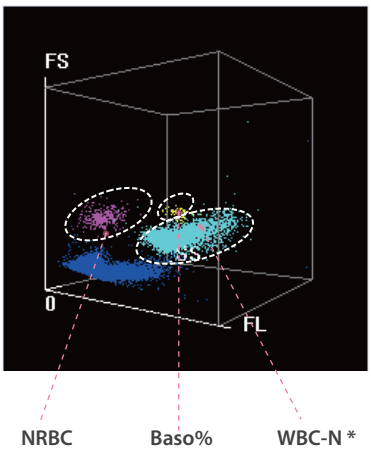
Lipid particle has **no fluorescence**

The PLT clump seems **mixed up** with Neutrophil and Eosinophil

The PLT clump is well separated from Neutrophil and Eosinophil

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.

WNB Channel

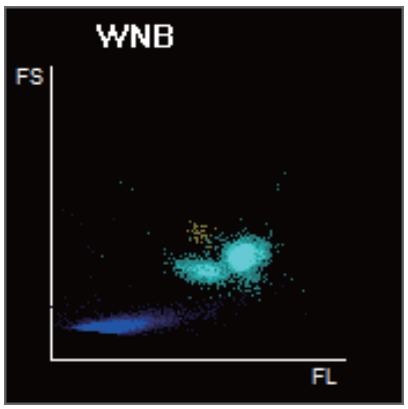


*For research use only

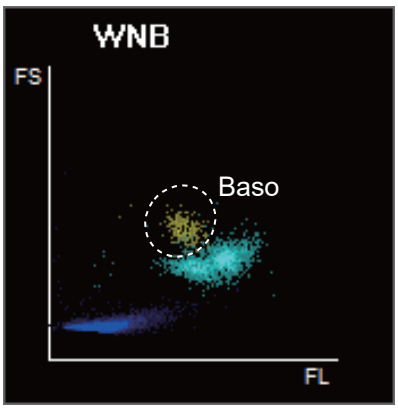
In WNB scattergram, BC-6200 provides NRBC, Basophils and WBC-N* results. It means that the actual number of NRBCs can be measured in routine CBC, if they are present in the sample. Basophils are counted in this counting channel with NRBC results.

Basophil and NRBC results are generated on BC-6200 without extra reagent or cost.

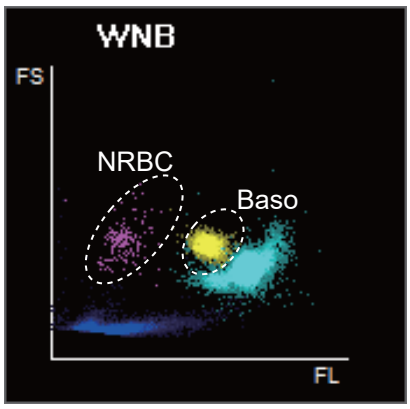
NRBCs do not usually exist in the peripheral blood except that of newborn children. Detection of NRBCs is essential in diagnosing and monitoring the hematopoietic diseases.



Normal sample



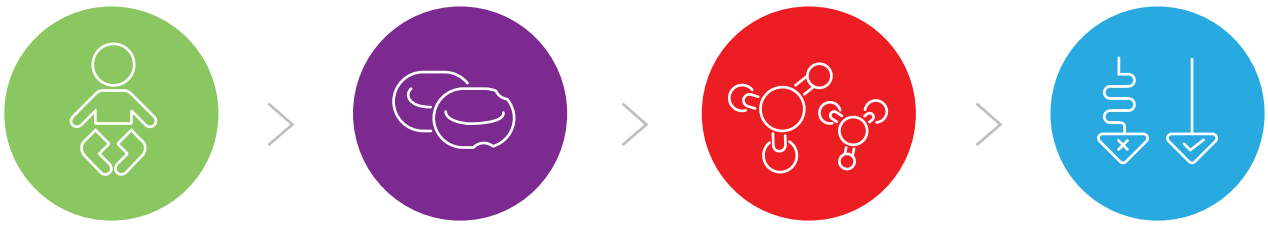
High Baso sample



High Baso & NRBC sample

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

NRBC results in every CBC



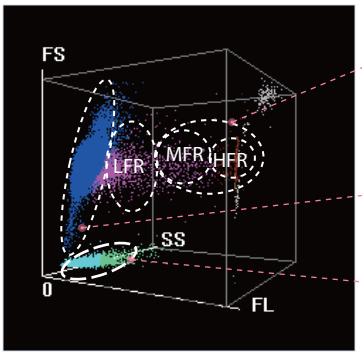
Automatic correction WBC counting, make sure neonatal counting correctly

Diagnosis for hemolytic anemia

Monitoring of hematopoietic diseases

Reduce the ratio of review

RET Channel

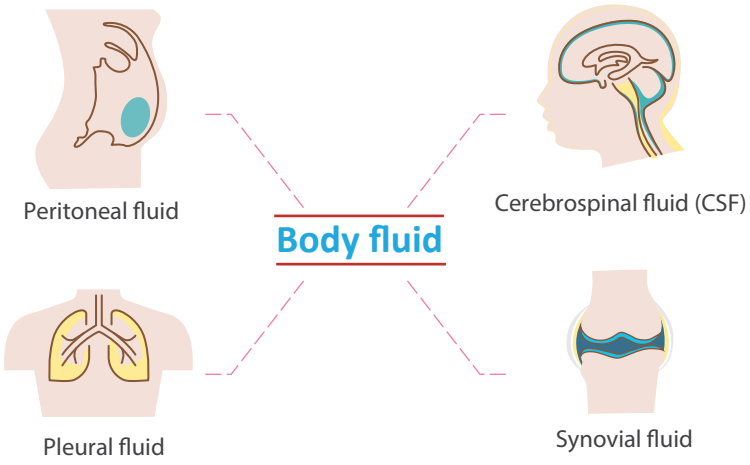


With the SF Cube cell analysis technology, Reticulocytes are differentiated from the other red cells by their reaction with fluorescent stain. Besides the traditional parameters such as RET# and RET%, BC-6200 provides data concerning immature reticulocytes (IRF), which can assist in early diagnosis of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

**For research use only*

Body fluid

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.

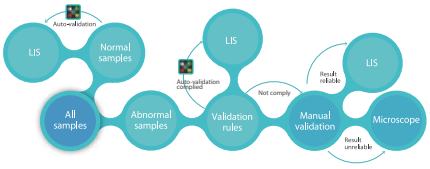


Applicable to variety of tubes

To cater to customer's diversified needs, 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.

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 including improving re-exam efficiency, auto-validation for normal samples; it also provides more intuitive interface for you to review and validate pathological samples.



Automatic Rerun & Reflex

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

Less testing time

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

Low sample volume

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

Easy maintenance

The only maintenance for end user is daily shut down by probe cleanser or probe cleanser cleaning once per day (if not shut down). The "auto-protect" program reminds operators when maintenance is needed (if not shut down).

Principles

SF Cube* method to count WBC, 6-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

Parameters

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
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
7 Reportable parameters (body fluid): WBC-BF, TC-BF#, MN#, MN%, PMN#, PMN%, RBC-BF
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%

2 Histograms for RBC and PLT
3 Three-dimension scatter grams: DIFF, WNB, RET
5 Two-dimension scatter grams: DIFF, WNB, RET, RET-EXT, PLT-O

Mode

CBC, CBC+DIFF, CBC+DIFF+RET, CBC+RET, RET

Data storage capacity

Up to 10,0000 results including numeric and graphical information

Operating environment

Temperature: 15℃~32℃
Humidity: 30%~85%

Performance

Parameter	Linearity Range	Precision	Carryover
WBC	0 - 5 0 0 ×109/L	≤ 2 . 5 % (≥4×109/L)	≤1.0 %
RBC	0-8.60×1012/L	≤1.5% (≥3.5×1012/L)	≤1.0 %
HGB	0 -260g/L	≤ 1.0% (110-180g/L)	≤1.0 %
HCT	0-75%	≤1.5% (30%-50%)	≤1.0 %
PLT	0-5000×109/L	≤4.0% (≥100×109/L)	≤1.0%
RET#	0-0.8×1012/L	≤15% (RBC≥3×1012/L; 1%≤RET%≤4%)	/

Sample volume

Whole blood (Autoloader, Closed Tube)	80uL
Capillary blood (Closed Tube)	35uL
Predilute (Closed Tube)	20uL
Body fluid (Closed Tube)	85uL

Throughput

Up to 110 samples per hour (CBC+DIFF)
Up to 65 samples per hour (RET)
Up to 40 samples per hour (Body fluid)

Loading capacity

Up to 50 sample tubes

Head office: **FusionGreen Healthcare Pvt Ltd**
Krishna Ground Floor No. 51/6, First link street, Raghavan Colony, Ashok Nagar, Chennai-600 083, Tamil Nadu, India.
Branch Offices: Coimbatore & Madurai

www.mindray.com

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+ 91 96771 44414 , 99401 41956

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