BC-760 & BC-780

Auto Hematology Analyzer with ESR

Key Specifications

Principles WBC (IMG/Neu/Mon/Lym/Eos/Bas), NRBC/RET*, PLT-H/PLT-O*/IPF: SF Cube ^ Cell Analysis Technology ^S: Scatter; F: Fluorescence; Cube: 3D analysis

RBC, PLT Focusing Flow-DC Impedance Method

HGB Colorimetric method

ESR Photometric method

Number of measuring parameters (whole blood): 109 Number of reportable parameters: 41

WBC Bas# Bas% Neu# Neu% Eos# Eos% Lym# Lym% Mon# Mon% IMG# IMG% RET%* RET#* RHE* IRF* LFR* MFR* HFR* RBC HGB MCV MCH MCHC RDW-CV RDW-SD HCT NRBC# NRBC% PLT PLT-I PLT-H PLT-O* MPV PDW PCT P-LCR P-LCC IPF ESR

Number of research parameters: 68*

Number of measuring parameters (body fluid): 18 Number of reportable parameters: 7 WBC-BF TC-BF# MN# MN% PMN# PMN% RBC-BF Number of research parameters: 11

Sample volume CD (whole blood): 25ul CD+ESR (whole blood): 160ul Predilute: 20ul

Data storage capacity Up to 150,000 results including numeric and graphical information *

Throughput CD 80t/h CDR 45t/h CD+ESR 40t/h

CD 80t/h CDR 45t/h CD+ESR 40

Analysis Mode

Sample Type	Type Analysis Mode	
Whole blood	CBC, CBC + DIFF, CBC + DIFF+RET [*] , CD + ESR, CDR + ESR [*] , CD/WBC-3X, CDR/PLT-5X [*] , and other modes	
Predilute	CBC, CBC + DIFF, CDR*, and other modes	
Body fluid	CBC + DIFF	

Physical Specifications

Dimensions 840D x 655W x 600H mm

Weight ≤70.6Kg

Voltage 100V-240V~ (±10%)

Frequency 50Hz/60Hz (±1Hz)

Power input 600VA

External output LANx1 , USB x 4 (Specifications: DC 5V; 500mA; USB2.0 x 3; USB3.0 x 1)

Normal Operating Environment

Ambient temperature: 10° C ~ 35° C

Relative humidity: 30% ~ 85%

Atmospheric pressure: 70.0kPa ~ 106.0kPa ^ ^Note : Required altitude for normal operation: -400m ~ +3000m

Performance

Parameter	Linearity Range	Precision	Carryover
WBC	0-500×109 /L	≤2.5% (≥4.51×10° /L)	≤ 1.0%
RBC	0-8.60×1012/L	≤1.5% (≥3.5×10 ¹² /L)	≤ 1.0%
HGB	0-260g/L	≤1.0% (110-180g/L)	≤ 1.0%
HCT	0-75%	≤1.5% (30%-50%)	≤ 1.0%
PLT*	0-5000×10°/L	≤ 1.5(SD) (≤20×10 ⁹ /L)^ ≤ 2.5% (≥100×10 ⁹ /L)^	≤ 1.0%
RET*	0-0.8×1012/L	≤15% (RBC ≥ 3.00×10 ¹² /L RET%: 1.00% ~ 4.00%)	≤ 1.0%
ESR		≤1.8(SD)(0~20mm/h)	≤ 1.0%
Note: Applicable only to CDR/PLT-O 5x and CR/PLT-O 5x models			

Items marked with an aerisk (*) apply only to BC-780



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Above and Beyond



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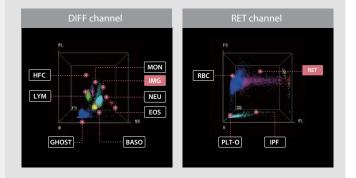


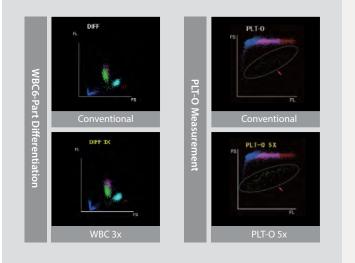
BC-760 & BC-780 Auto Hematology Analyzer with ESR

- • Above your expectations
- SF Cube fluorescent technology allows reliable counting and differentiation of abnormal samples

More refined and reliable cell differentiation

3D fluorescent analysis technology allows reliable differentiation of immature and other abnormal cells, such as immature granulocytes (IMGs), reticulocytes (RETs*), and immature platelet fraction (IPF).





More reliable measurements for low-value samples

The BC-760 & BC-780 3D fluorescence analysis platform is designed with multiple counting WBC-3x and PLT-O 5x analysis modes to help ensure higher reliability for low-value WBC and PLT samples. In addition, the PLT deaggregation function can reduce the cumbersome review work.

— More comprehensive alarm messages for abnormalities

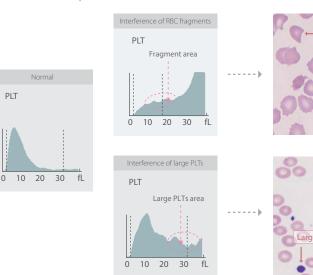
The analyzer provides a detailed list of over 40 prompt messages, including WBC message, RBC message, and PLT message. This allows laboratory technicians to intuitively and quickly identify abnormal samples and proceed further with the samples in a timely manner. This in turn helps to avoid missed diagnosis of blood disease and false reports.



BC-760 & BC-780 Auto Hematology Analyzer with ESR ••• Beyond your expectations

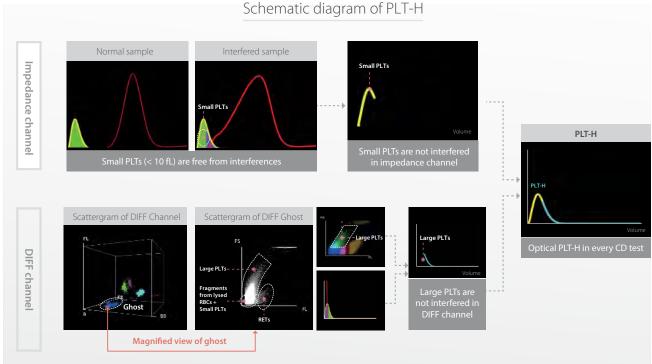
Limitations of traditional PLT counting

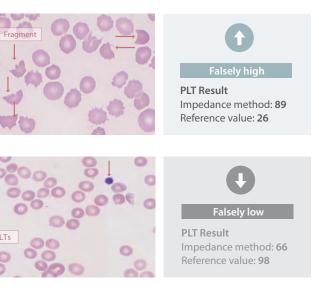
In the traditional impedance method, PLTs are subject to interferences that may lead to falsely high or falsely low results (as shown in the figure). Once an error report is generated, it will directly affect the judgment and decision-making of clinicians. The results reported at the clinical decision level are related to patient safety. Therefore, accurate PLT results are critical in clinical practice.



Optical PLT-H in every CD test

In order to solve the above problem, we have developed a brand new parameter PLT-H. It combines small PLTs from the conventional impedance method and large PLTs from the optical method. The solution can resist the interferences in conventional PLT detection without requiring extra reagents.



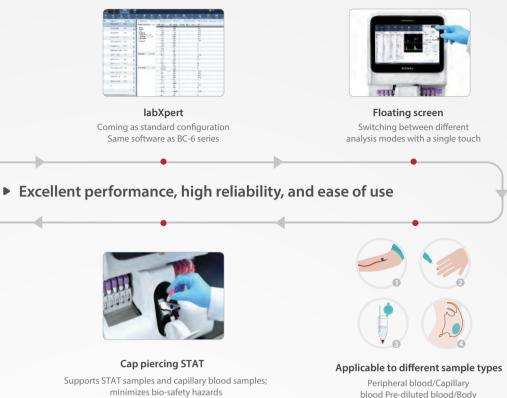




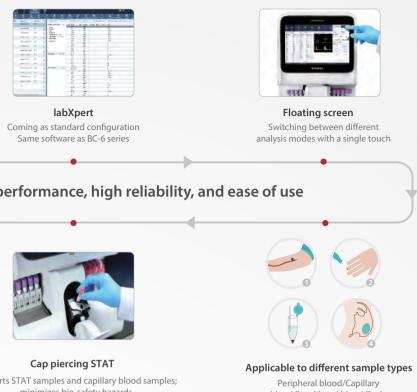


RFID

Encryption key management







fluid

Continuous autoloading 5 positions x 6 racks

minimizes bio-safety hazards

CD + ESR in one test provide reliable ESR results with greater ease

The BC-700 series integrates an automatic ESR module in a hematology analyzer. It can also generate both CBC & ESR results in one test within 1.5 min. In addition, it saves the costs that would otherwise be incurred for the purchase, maintenance, consumables, and storage space of a separate ESR analyzer. Compared with the traditional Westergren method, this method performs better in quality traceability, repeatability, speed, safety, and level of automation.

Accurate

 Great correlation with the Westergren method • Same QC and calibrator as in the BC-6000 series • Combined examination helps to avoid the interferences of dehydration, polycythemia vera and anemia on ESR results

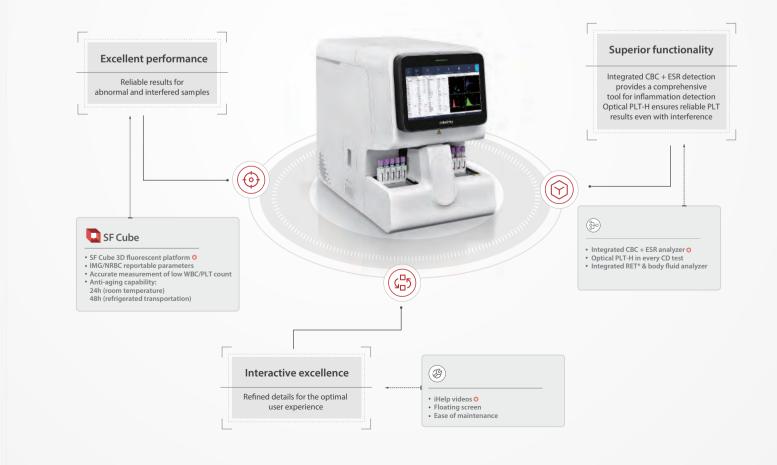


Cost-effective

• The integrated instrument is capable of both CBC and ESR detection; • Takes up the space of only one analyzer.



- Report CBC + ESR results together
- within 1.5 min; • The measurement results are protected against the influence of subjective factors; Automation can reduce the biosafety hazards that may otherwise be
- introduced by a manual method.



► An all-in-one solution that goes above and beyond your expectations