

RFID
Encryption key management

labXpert
Coming as standard configuration
Same software as BC-6 series

Floating screen
Switching between different analysis modes with a single touch

► **Excellent performance, high reliability, and ease of use**

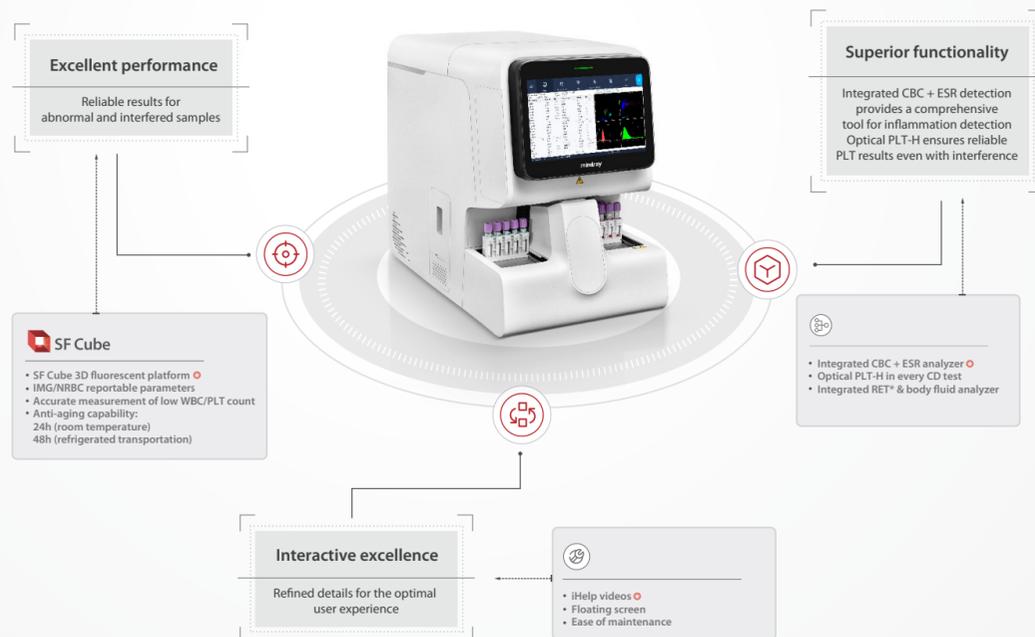


Continuous autoloading
5 positions x 6 racks

Cap piercing STAT
Supports STAT samples and capillary blood samples;
minimizes bio-safety hazards

Applicable to different sample types
Peripheral blood/Capillary blood
Pre-diluted blood/Body fluid

► **An all-in-one solution that goes above your expectation and beyond your imagination**



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

Analysis Mode

Sample 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	0-500×10 ⁹ /L	≤2.5% (≥4.51×10 ⁹ /L)	≤ 1.0%
RBC	0-8.60×10 ¹² /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 ⁹ /L	≤ 1.5(SD) (≤20×10 ⁹ /L)^ ≤ 2.5% (≥100×10 ⁹ /L)^	≤ 1.0%
RET*	0-0.8×10 ¹² /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 asterisk (*) apply only to BC-780



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healthcare within reach

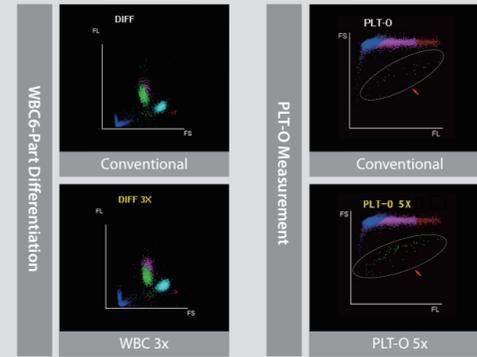
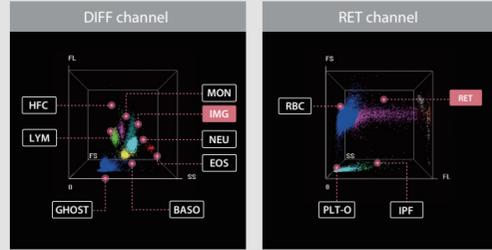
BC-760&BC-780 Auto Hematology Analyzer with ESR

••• Above your expectation

► **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 de-aggregation function can reduce the cumbersome review work.

Parameter	Result	Unit	Parameter	Result	Unit	Message	Comment	Comment
WBC	16.66	10 ⁹ /L	RBC	4.99	10 ¹² /L			
Neu#	15.90	10 ⁹ /L	HGB	108	g/L			
Lym#	0.20	10 ⁹ /L	HCT	0.362				
Mon#	0.43	10 ⁹ /L	MCV	72.4	fL			
Eos#	0.01	10 ⁹ /L	MCH	21.7	pg			
Bas#	0.02	10 ⁹ /L	MCHC	309	g/L			
IMG#	0.43	10 ⁹ /L	RDW-CV	0.286	%			
Neu%	0.954		RDW-SD	77.7	fL			
Lym%	0.019		RET#	0.004	10 ⁹ /L			
Mon%	0.026		RET%	0.61	%			
Eos%	0.008		IPF	19.4	%			
Bas%	0.001		LFR	89.4	%			
IM%	0.026		MFR	8.0	%			
PLT	54	10 ⁹ /L	MFR	2.6	%			
MPV	10.9	fL	RHE	20.5	pg			
RDW	14.6	%	NRBC#	0.000	10 ⁹ /L			
PCT	1.31	%	NRBC%	0.00	100%			
PLCC	38	10 ⁹ /L	ESR	5.37	mm/h			
PLCCR	45.3	%						
IPF	5.7	%	Other Para.					

— More comprehensive alarm messages for abnormalities

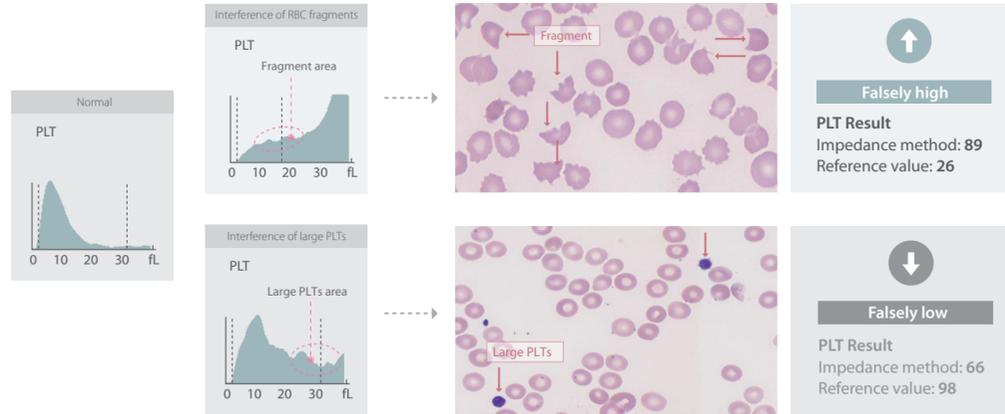
The analyzer provides a detailed list of over 40 prompt messages, including WBC message, RBC message, and PLT message. This allows laboratory technicians to intuitively and quickly identify abnormal samples and proceed further with the samples in a timely manner. This in turn helps to avoid missed diagnosis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

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

••• Beyond your imagination

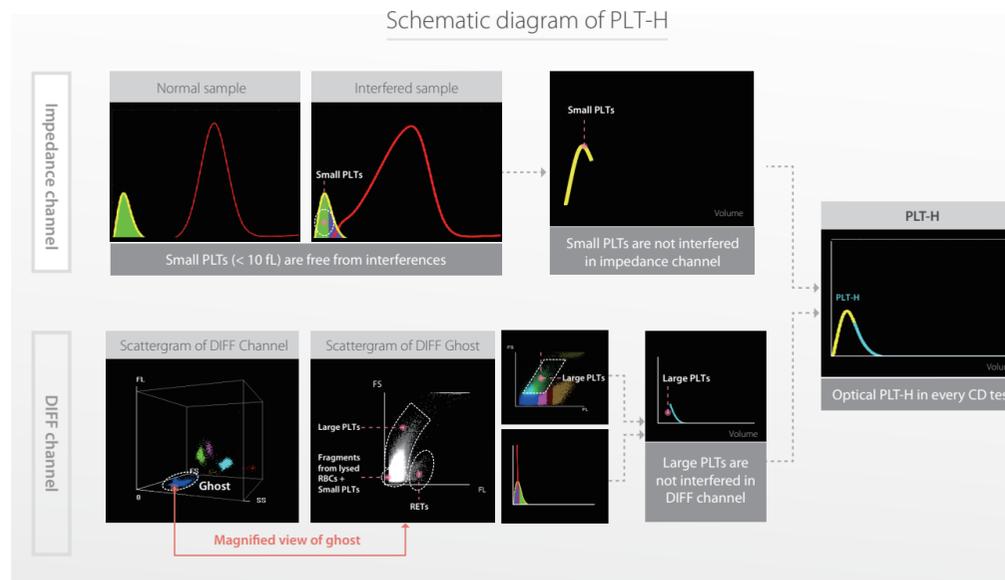
► **Limitations of traditional PLT counting**

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.



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.

Automatic

- 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.