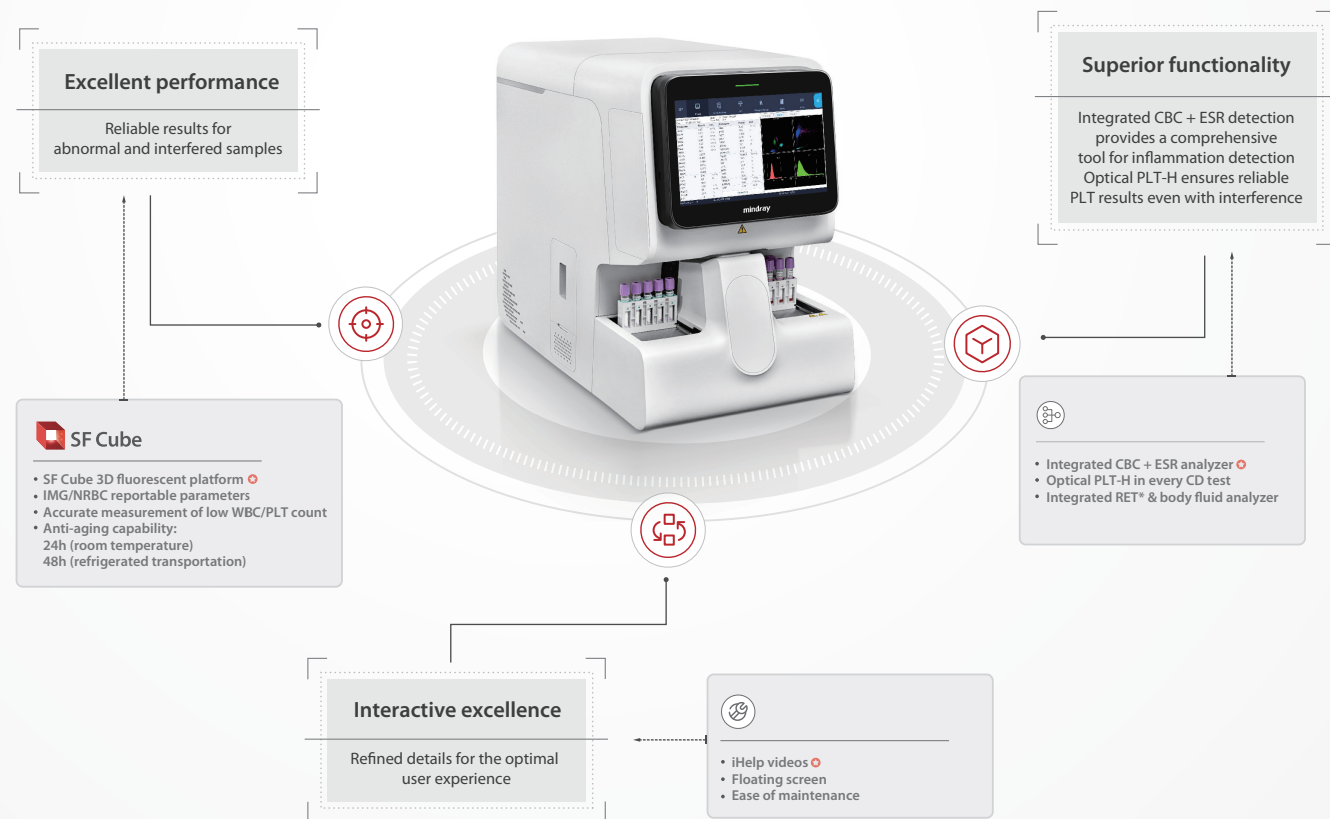




► **An all-in-one solution that goes above and beyond your expectations**



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

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 aerisk (*) apply only to BC-780



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healthcare within reach

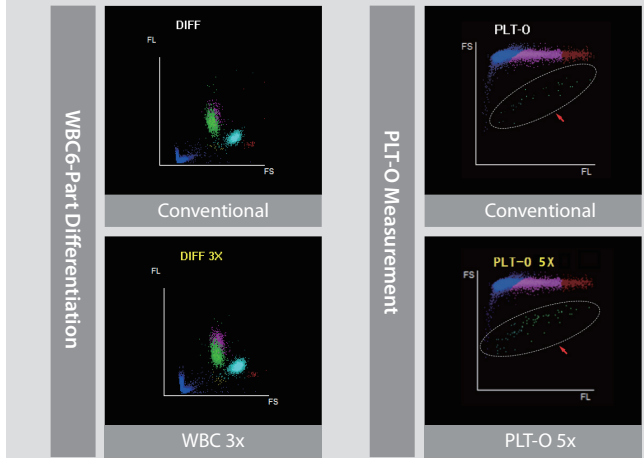
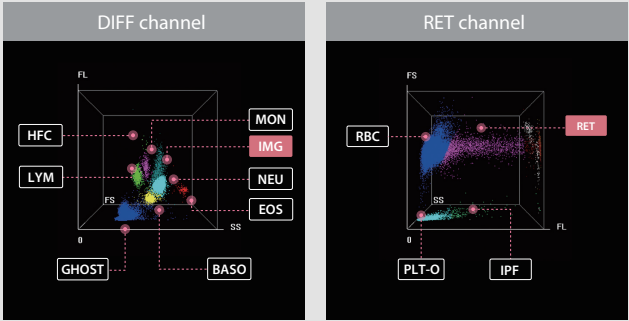
BC-760 & BC-780 Auto Hematology Analyzer with ESR

• • • 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 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.

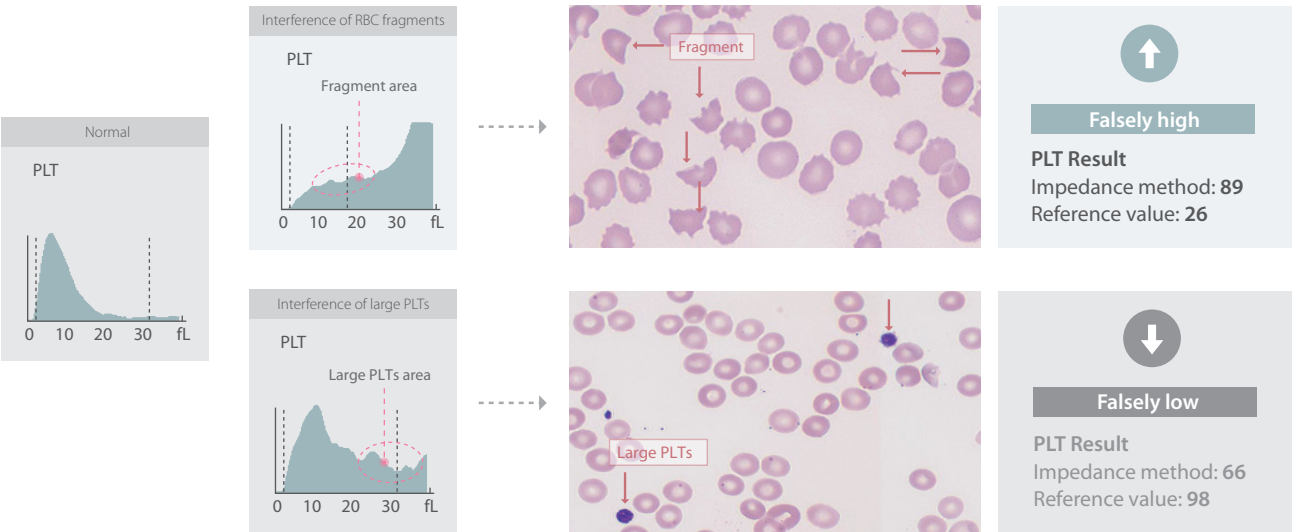
Count		Table Rows		QC	Reagent Status	Help	Print		
Sample ID 12105204762		Mode		AL-WBC-COR-ESR		Message		Graph1	Graph2
Time 09-29-2021 20:45		Parameter		Result	Unit	RBC Message		PLT Message	
WBC	H	10.66	10 ⁹ /L	RBC	4.99	10 ¹² /L	Immature Gran	[Flagged]	
Neu#	L	15.90	10 ⁹ /L	HGB	108	g/L	Leukemia/Myeloid	[Flagged]	
Lym#	H	0.32	10 ⁹ /L	HCT	0.362	%	Neutrophils	[Flagged]	
Mon#		0.43	10 ⁹ /L	MCV	72.4	fL		[Flagged]	
Eos#	L	0.01	10 ⁹ /L	MCH	21.7	pg		[Flagged]	
Bas#		0.02	10 ⁹ /L	MCHC	300	g/L		[Flagged]	
IMG#		0.43	10 ⁹ /L	RDW-CV	0.288	%		[Flagged]	
Neu%	H	0.954	%	RDW-SD	77.7	fL		[Flagged]	
Lym%	L	0.019	%	RET#	0.004	10 ¹² /L		[Flagged]	
Mon%		0.026	%	RET%	0.61	%		[Flagged]	
Eos%	L	0.003	%	IPF	10.6	%		[Flagged]	
Bas%		0.001	%	LPR	89.4	%		[Flagged]	
IMG%		0.026	%	MFR	6.0	%		[Flagged]	
PLT	&L	54	10 ⁹ /L	HFR	2.6	%		[Flagged]	
MPV	R	10.9	fL	RHE	20.5	pg		[Flagged]	
PDW	R	14.6	%	NRBC#	0.000	10 ⁹ /L		[Flagged]	
PCT	R	1.31	mL/L	NRBC%	0.00	1000/WBC		[Flagged]	
PLCC	R	38	10 ⁹ /L	ESR	5.37	mm/h		[Flagged]	
PLCR	R	45.3	%					[Flagged]	
IPF	R	6.7	%	Other Para.				[Flagged]	
Next sample: 9		AL-WBC-COR-PLT-5X				12-19-2021 10:54			

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

• • • Beyond your expectations

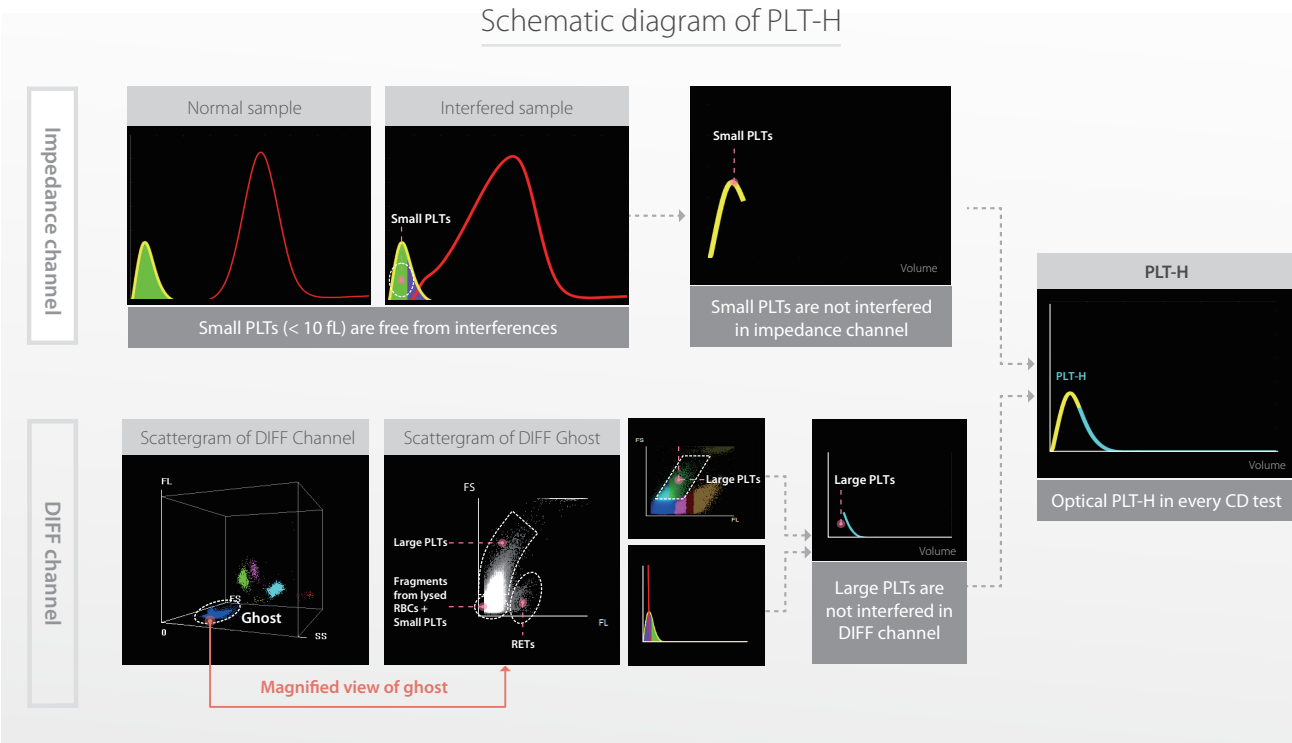
► Limitations of traditional PLT counting

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.



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.