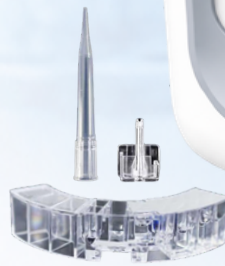


BCA320

AUTOMATIC HEMATOLOGY ANALYZER

- **Ultimate Stability**
- **Accurate Results**
- **Smarter Workflow**
- **Compact Size**
- **Better Care**

The RUNMEI BCA320 is a high-performance 5-part differential hematology analyzer designed for small to mid-volume laboratories. It delivers reliable results with ease of use, efficiency and advanced technology.



KEY FEATURES



3 Channels



5-Part Blood Cell Differentiation



AI Powered Precision



Stability



Gold Standard Detection



Complete Blood Count (CBC)



Cost-Efficient Single-Use Packaging



10 Minutes Result Delivery



POCT Integrated Reagent Card Design



Desktop Miniaturized Laboratory

OPERATING PROCESS



Required Material:
Pipette Tip, Sampler,
Single Serving Test
Cartridge



Disinfect and collect
blood specimen



Automatic test after
inserting the reagent
card



Keep to image standard, crystal clear cell visualization, superior precision over traditional methods and tailored for primary healthcare.

WIDE APPLICATIONS



Accidental & Emergency Units



Government Clinics



General Practitioner Clinics



Laboratories



University Clinics

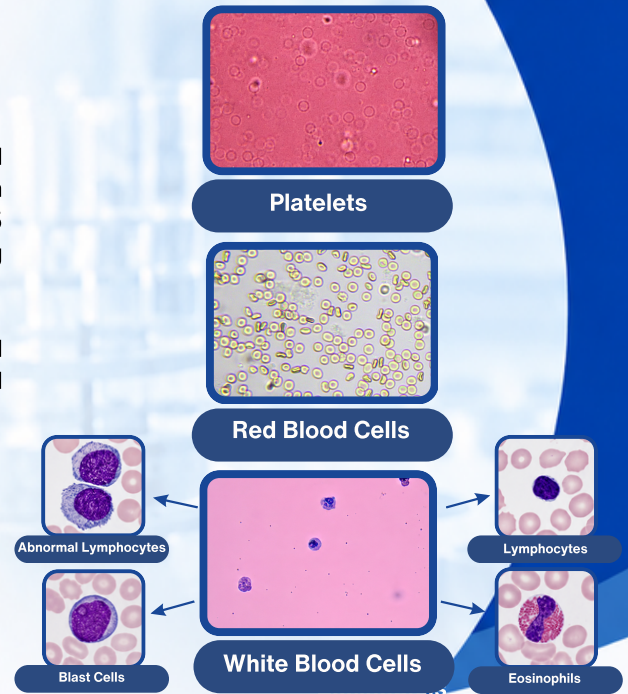
Blood Cell Morphology Microscopy

The BCA3 Series is based on advanced cell imaging technology and utilizes a self-developed AI-powered cell morphology recognition system to comprehensively analyze, classify and count blood cells. It delivers 25 clinical parameters with accurate 5-part differential analysis, providing reliable and evidence-based diagnostic results.

The system enables precise identification and classification of blood cell morphology and conditions, helping laboratories reduce misdiagnosis and missed diagnoses while enhancing diagnostic confidence and efficiency.

Detection Operation Times:

- ✓ 10 minutes for one sample
- ✓ 16 minutes for two samples
- ✓ 22 minutes for three samples



TESTING ITEMS

Testing Item	Abbreviations	Testing Item	Abbreviations
White blood cell count	WBC	Platelet large cell ratio	P-LCR
Red blood cell count	RBC	Thrombocytocrit	PCT
Hemoglobin	HGB	Neutrophil ratio	NEUT%
Hematocrit	HCT	Lymphocyte ratio	LYMPH%
Mean corpuscular volume	MCV	Monocyte ratio	MONO%
Mean corpuscular hemoglobin	MCH	Eosinophil ratio	EO%
Mean corpuscular hemoglobin concentration	MCHC	Basophil ratio	BASO%
Platelet	PLT	Neutrophil count	NEUT#
Standard deviation in red cell distribution width	RDW-SD	Lymphocyte count	LYMPH#
Coefficient variation of red blood cell volume distribution width	RDW-CV	Monocyte count	MONO#
Platelet distribution width	PDW	Eosinophil count	EO#
Mean platelet volume	MPV	Basophil count	BASO#
Platelet large cell count	P-LCC	/	/

PARAMETER PERFORMANCE

Testing Items	5-Part Blood Routine Exam.
Detection Principle	Cell Morphology
Detection Speed	10 Minutes/Sample
Supporting Languages	Chinese/English/French/Spanish/Russian
Sample Size	30 uL
Sample Type	Capillary Blood/Venous Blood
Working Voltage	100~240V - 50/60Hz
Report Printing	Support External USB Printer
Package Size	410 (L) x 390 (W) x 485 (H) (mm)
Instrument Weight	10.8 kg
Transportation/Storage Temp.	-20°C~55°C
Working Temperature	5°C~30°C

TECHNICAL ERA EVOLUTION COMPARISON



Comparison Dimension	Manual Microscopy Era	Coulter Automated Counting	AI Cell Image Recognition Era
Technical Principle	Manual Smear + Visual Microscopy	Electrical Impedance Automated Counting	AI Image Recognition + Morphological Algorithm
Operational Complexity	High (Requires Skilled Technicians)	Moderate (Regular Maintenance Needed)	Low (Full Automation)
Grassroots Adaptability	Skill-Dependant Personnel	Requires Stable Power / Environment	Plug-and-Play (POCT)
Data Traceability	Paper Records (Prone to Loss)	Local Storage (Limited Capacity)	Cloud-Encrypted Archiving + Blockchain Traceability
Abnormal Cell Detection Rate	85% (Technician Skill-Dependant)	92% (5-Part Differential Limitation)	99.6% (Trained on Million-Cell Database)
Retest Rate	30%	18%	2%



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