

# EC-518

## Auto Hematology Analyzer

### Technical Specifications

#### Principles

Sheath Flow cytometry(FCM)+Tri-angle laser scatter method for WBC 5-part differential analysis and WBC counting  
Impedance method for RBC and PLT counting  
Cyanide free reagent for hemoglobin Measurement

#### Parameters

25 report parameters:  
WBC, Lym%, Mon%, Neu%, Bas%, Eos%, Lym#, Mon#, Neu#, Eos#, Bas#,  
RBC, HGB, HCT, MCV, MCH, MCHC, RDW-SD, RDW-CV, PLT, MPV, PDW, PCT, P-LCR, P-LCC  
12 research parameters:  
LIC%, LIC#, ALY%, ALY#, PLT Clumps#, PLT Clumps%, Lip#, Lip%, NRBC#, NRBC%  
3 histograms for WBC, RBC and PLT  
3 DIFF scattergrams and 1 BASO scattergram

#### Reagent

Hematology analyzer lyse, Hematology analyzer diluent support , Probe cleanser

#### Performance

Parameter	Linearity Range	Repeatability	Carryover
WBC	0-500*10 <sup>9</sup> /L	2%(3.5-15*10 <sup>9</sup> /L)	0.5%
RBC	0-8*10 <sup>12</sup> /L	1.5%(3.5-6*10 <sup>12</sup> /L)	0.5%
PLT	0-5000*10 <sup>9</sup> /L	4%(150-500*10 <sup>9</sup> /L)	1%
HGB	0-250g/L	1.5%(110-180g/L)	0.5%

#### Sample Volume

Prediluted blood 20μL, whole blood 15μL

#### Throughput

60 samples per hour

#### Display

10.4 inch TFT Touch Screen

#### Multi-language

English, Option: Chinese, Portuguese, Spanish, Russian, French

#### Data Storage Capacity

Up to 50,000 results including numeric and graphic

#### Communication

LAN port supports HL7 protocol

#### Interface

4 USB ports, 1 LAN port, bi-directional LIS connection

#### Printout

Support multiple usb laser printer/Inkjet printer, various printout formats.

#### Operating Environment

Temperature: 10 - 30°C  
Humidity: 20% - 85%

#### Air pressure

61.6Kpa-106Kpa

#### Power requirement

100-240VAC, 50/60Hz

#### Dimension

420mm ( L ) \*300mm ( W ) \*430mm ( H )

#### Net Weight

≤24kg



BIOELAB



*Smart design  
Accurate and reliable*

**EC-518**  
Auto Hematology Analyzer

THE  
**DRAKE**  
BUSINESS GROUP  
CORPORATION



Drake Marketing and  
Equipment Corporation



Drake Calibration  
Laboratory Philippines



Erpel Konstrukt  
Konzern Corporation



Urossorsa Marketing and  
Equipment Corporation

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# EC-518

## Auto Hematology Analyzer

### Features:

- Sheath Flow cytometry+Tri-angle laser scatter technology
- WBC 5-part differentiation, 25 reportable parameters and 12 research parameters, 3 histograms, 3 DIFF scattergrams and 1 BASO scattergram
- Double optical counting channel including for DIFF and basophil measurement
- Whole blood mode, Pre-diluted mode
- Powerful analysis ability for abnormal cells  
10.4 inch large TFT Touch Screen with user-friendly software, support connecting with mutiple types USB printers directly.
- Large storage capacity: up to 50,000 samples
- Throughput: 60 samples per hour
- Low sample consumption 15µL per test
- Compact in size and lower weight
- High precision in linearity range
- Good repeatability and low carryover
- Lost counting optimize algorithm about High PLT



60 samples per hour  
Rich research parameters

Equipped with one-click troubleshooting technology  
Quickly eliminate faults and ensure efficient use

Throughput: 60 samples per hour

Compatible with at least 15 types of USB printers

Powerful abnormal result alarm capability



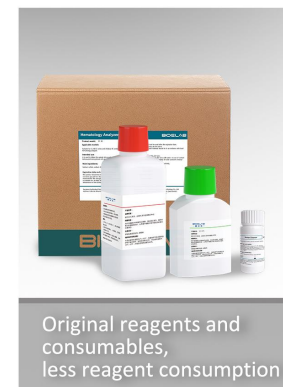
Friendly operating interface,  
one click to reach

Equipped with 10.4 inch true color touch screen, convenient and intelligent, flexible and adaptable.



Micro blood collection,  
accurate and reliable

micro blood for testing:  
The minimum consumption for a single test is 15 µL.



Original reagents and consumables,  
less reagent consumption

Using only two lyses,  
low testing costs, save reagents.