VECTOR

# UNIKON 5

**5 Part Hematology Analyzer**




## Features

5-part WBC differentiation ; 25 reportable parameters ; 10 research parameters ; 3 histograms with 3 scattergrams

Whole blood mode, Capillary whole blood mode and Prediluted mode

Tri-angle Laser scatter + Chemical dye + Flow cytometry technology

Dedicated optical counting channel for Basophil measurement

60 Sample/Hour throughput with capability of flagging abnormal cells

10.4 inch large TFT touch screen with user-friendly software

Sample volume is only 15µL which is ideal for pediatrics

"Think Hematology ! Think Vector..."

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## 5 Part Hematology Analyzer

## Technical Specifications

| | |
|---|---|
| **Principles** | Impedance method for RBC and PLT counting Cyanide free reagent for hemoglobin test Flow Cytometry (FCM) + Laser scatter + Chemical dye method for WBC differential analysis and WBC counting |
| **Parameters** | **25 reportable parameters**: WBC, Lym%, Mon%, Neu%, Bas%, Eos%, Lym#, Mon#, Neu#, Eos#, Bas#, RBC, HGB, HCT, MCv, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PLT, P-LCR, P-LCC<br>**10 Research parameters** include LIC%, LIC#, ALY%, ALY#, PLT Clumps#, PLT Clumps%, Lip#, Lip%, NRBC#, NRBC% 3 histograms for WBC, RBC and PLT<br>3 scattergrams: 4-differential scattergram and 2 scattergrams for Eosinophil |
| **Reagent** | Diluent, DIFF lyse, LH lyse, probe cleanser |
| **Sample Volume** | Prediluted - 20 µL \| Whole blood - 15 µL \| Capillary WB blood - 15 µL |
| **Throughput** | 60 samples per hour |
| **Display** | 10.4 inch TFT Touch Screen |
| **Multi-language** | Chinese, English |
| **Data Storage Capacity** | Up to 150,000 results including numeric and graphical information |
| **Communication** | LAN Port supports HL7 protocol |
| **Interface** | USB, LAN, COM \| Support Uni- or bi-directional LIS |
| **Printout** | External Laser printer / Inkjet printer, various printout formats and User-defined formats |
| **Operating Environment** | Temperature - 10°C~30°C \| Humidity - 20%~85% \| Air pressure - 70 kPa~106 kPa |
| **Power Requirement** | 100V-240V through online UPS (rating 1KVA) , 50Hz/60Hz |
| **Dimensions** | 400(L) x 320(W) x 410(H) mm ; 24Kg |

**Performance**

| Parameters | Linearity Range | Precision (CV%) | Carryover |
|---|---|---|---|
| WBC | 0-500 x $10^9$L | ≤2.0% (4-15 x $10^9$L) | ≤0.5% |
| RBC | 0-8 x $10^{12}$L | ≤1.5% (3.5-6.0 x $10^{12}$L) | ≤0.5% |
| HGB | 0-250 g/L | ≤1.5% (110 - 180 g/L) | ≤0.6% |
| PLT | 0-5000 x $10^9$/L | ≤4.0% (100-500 x 109L) | ≤1.0% |

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