



# BH-5100

## 5-Part-Diff Hematology Analyzer

- 34 Parameters including RETIC\_ABS, RETIC%, IRF
- Flow Cytometry (FCM) + Multi Angle Scatter Separation (MASS)
- Hourly throughput up to 60 samples
- Resistant RBC mode
- Multi-language software available (Tailor-Made)



- Reticulocyte test: RETIC\_ABS, RETIC%, IRF
- 34 parameters, 2 histograms, 2 scatter grams
- Hourly throughput up to 60 samples
- Compact design of 5-part
- The combination of WIC and WOC for WBC counting
- Impedance method for RBC and PLT counting
- Cyanide free reagent for hemoglobin counting
- On board storage capacity of 200,000 samples with all grams
- Support variety of external color printers
- LIS and HIS available with HL7 protocol





## Laser Scatter

- Multi-angle scatter separation (MASS)
- Original cell morphology signal
- Stable and long-lasting



## Sheath Flow Regulation

- Chemical dye free technology
- Only sheath reagent for WBC 5-Diff



## Diluting Unit

- Separation system for motors and syringes
- Ceramic syringes
- High precision motors



## Electronic and Mechanical Components

- Individual quality control management
- Military level
- 20 years field-proven



## 2D Grams

- Two 2D histograms: RBC and PLT
- Two 2D scattergrams: 5-part differential  
Eosinophil and Neutrophil



## Data Management

- On board storage capacity of 200,000 sample results
- Professional data statistics query system



## Operation Interface

- Simple touch operation with user friendly illustrated icons
- Handy tool tips
- Unique URIT operation interface like all URIT hematology series



## Quality Control Solution

- URIT original QC reagent with multi-method as L-J, X, X-R, X-B, etc.
- Third party QC solution available

## 34 parameters

WBC, LYM%, MON%, NEU%, EOS%, BAS%, LYM#, MON#, NEU#, EOS#, BAS#, RBC, HGB, HCT, MCV, MCH, MCHC, RDW\_CV, RDW\_SD, PLT, MPV, PDW, PCT, P\_LCR, P\_LCC, RETIC%, RETIC\_ABS, IRF

6 research parameters: ALY#, ALY%, LIC#, LIC%, NRBC#, NRBC%

2 histograms for RBC and PLT

2 scatter grams: 5-part differential scatter gram

Eosinophils and Neutrophils scatter gram

## Principles of operation

WBC/DIFF: flow cytometry, semi-conductor laser light multi-dimensional cell classification

WBC analysis: optical and impedance measurements

RBC/PLT analysis: impedance method

HGB test: cyanide-free reagent colorimetry

## Reagent

Diluent, detergent, lyse, sheath

## Sampling modes & aspiration volume

Whole blood: 20  $\mu$  L, pre-diluent: 20  $\mu$  L

## Aperture diameter

WBC 100  $\mu$  m, RBC/PLT 68  $\mu$  m

## Throughput

Whole blood: up to 60 samples per hour, pre-diluent: up to 60 samples per hour

## Data Storage

Up to 200,000 sample results with grams

## Alarms

Error messages & pathological flagging

## Display

10.4-inch color touch screen

## Input/output

Build-in thermal printer. Support serial port, LAN port, USB port

## Power

AC 100–240V, 50/60Hz, 250VA

## Dimension & weight

530mm (L)  $\times$  270mm (W)  $\times$  412mm (H), about 26.5kg



## V R HealthTech

Plot No. 2, First Floor, N.K. Sharma Office Road  
Lohgarh, Zirakpur-140603,  
Distt. Mohali. Punjab  
E-mail : [vrhealthtech@gmail.com](mailto:vrhealthtech@gmail.com)  
Mobile : +91-94172 92991