

# BH-5390

## 5-Part-Diff Hematology Analyzer

### 49 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, 7 body-fluid parameters: WBC-BF, RBC-BF, MN%, MN#, PMN%, PMN#, TC-BF#

14 research parameters: ALY%, ALY#, LIC%, LIC#, NRBC%, NRBC#, BLAST%, BLAST#, InR%, InR#, Eos-BF%, Eos-BF#, Neu-BF%, Neu-BF#

Blood routine provide: 3 histograms for WBC, RBC and PLT

2 scatter grams: 5-part differential scatter gram, eosinophils and neutrophils scatter gram

Two 3D stereograms

RETIC provide: 2 histograms, 2 scatter grams, two 3D stereograms

Body fluid provide: 2 histograms, 2 scatter grams, two 3D stereograms

### Principles of operation

WBC 5-part: flow cytometry(FCM) + 4 angles laser light scatter

WBC analysis: optical and impedance measurements

RBC/PLT analysis: impedance method

HGB test: cyanide-free reagent colorimetry

RETIC test: flow cytometry (FCM) + laser light scatter + chemical dye method

### Reagent

Diluent, detergent, lyse, sheath

### Sampling modes

Auto loader 20 $\mu$ L, manual mode 20 $\mu$ L, pre-diluted mode 20 $\mu$ L, body-fluid mode 70 $\mu$ L

### Aperture diameter

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

### Throughput

CBC mode: 90T/H, CBC+5DIFF mode: 80T/H, Body-fluid mode: 30T/H

### Sampling device

Auto loader with 50 (10 x 5 racks) sample storage capacity

Built-in bar code reader

### Data storage

Up to 500,000 sample results with all grams

### Alarms

Error messages

### Display

PC display with windows system, 17-inch color TFT display

### LIS

Support, with HL7 protocol

### Power

AC 100–240V, 50/60Hz, 300VA

### Dimension & Weight

592mm (L) x 712mm (W) x 595mm (H), about 76.5kg

### Marketed By :

## VR HealthTech

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Lohgarh, Zirakpur-140603,

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Manufactured By :  
URIT Medical Electronic Co., Ltd.

**VYOMAX<sup>®</sup>**

Empowering Diagnostics, Enabling Care



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## 5-Part-Diff Hematology Analyzer

49 Parameters including Body-fluid and RETIC parameters

Flow Cytometry (FCM) + Multi Angle Scatter Separation (MASS)

Hourly throughput up to 90 samples

Resistant RBC mode

- Body-fluid Test: WBC-BF, RBC-BF, MN%, MN#, PMN%, PMN#, TC-BF#
- Leukemia screening from BLAST% & BLAST# (research parameters)
- Reticulocyte Test: RETIC\_ABC, RETIC%, IRF
- 49 Parameters, 7 histograms, 6 scatter grams, and six 3D stereograms
- The combination of WIC and WOC for WBC counting
- Impedance method for RBC and PLT counting
- On board storage capacity of 500,000 samples with all grams
- Built-in barcode reader
- 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



### Sample Aspiration Device

- Flexible sample aspiration blood collection tubes including: standard tube, capillary tube, disposable plastic tube and micro tube



### Electronic and Mechanical Components

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



### 2D+3D Grams

- Blood routine provide: 3 histograms for WBC, RBC and PLT 2 scatter grams Two 3D stereograms
- RETIC provide: 2 histograms, 2 scatter grams, two 3D stereograms
- Body fluid provide: 2 histograms, 2 scatter grams, two 3D stereograms



### Data Management

- On board storage capacity of 500,000 samples
- Professional data statistics query system



### Operation Interface

- Simple 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.