

# Z-GEM 5R+

## 5 Part Hematology Analyzer

### SPECIFICATIONS

#### 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#  
 2 histograms for RBC and PLT  
 2 scatter grams: 5-part differential scatter gram  
 Eosinophils and Neutrophils scatter gram

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 $\times$ 5 racks) sample storage capacity  
 Built-in bar code reader

#### Data storage

Up to 600,000 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)  $\times$  712mm (W)  $\times$  595mm (H), about 73kg



This Product is CE certified.

**Zovec Diagnostics GmbH**

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**New  
Launch**



# Z-GEM 5R+

## 5 Part Hematology Analyzer

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## 5 Part Hematology Analyzer

- 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, 2 histograms, 2 scatter grams, and two
- 3D stereograms
- The combination of WIC and WOC for WBC counting
- Impedance method for RBC and PLT counting
- On board storage capacity of 600,000 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

- Two 2D histograms: RBC and PLT
- Two 2D scattergrams: 5-part differential
- Eosinophil and Neutrophil
- Two 3D multi-angle vision grams



### 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 ZOVEC operation interface like all ZOVEC hematology series



### Quality Control Solution

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

