

Z-GEM 5+

5 Part Hematology Analyzer

SPECIFICATIONS

MEASURING DATA

Throughput: 80 samples per hour ,CBC Mode 90 Samples per hour

Parameters: 29 Routine Parameters
RBC,PLT,HGB ,WBC, LYM%, MON%, NEU%, EOS%, BASO%,LYM#, MON#, NEU#, EOS#, BAS#, HCT, MCV, MCH, MCHC, RDW_CV, RDW_SD, MPV, PDW, PCT, P_LCR, P_LCC.
4 Research Parameters
ALY#, ALY%, LIC#, LIC%
5-Part Differential Scattergram : 1 3D & 3 2D Scattergram
3- Histograms

SAMPLING SYSTEM

Modes of Operation: * Whole blood ,Capillary , Pre-Dilute
* CBC,CBC+DIFF

Sample Volume

Bwhole Blood: 20 µL
Pre-diluted: 20 µL
CBC Only: 20 µL
Capillary: 20 µL

PRINCIPLE

WBC Count- HGB test: Optical measurement
RBC/PLT Analysis: Photometric
WBC DIFF: Impedance
3 Angle Semiconductor Laser Scatter
Cell measurement, Flow cytometry,
Chemical Dye

REAGENT

RFID Based Reagent Setup
Environment friendly Reagents

INTERFACE

OS Windows 10 64 BIT OS
Storage 100,000 Sample results with Scatter Grams, Histogram English

Language
LIS
Communication Bidirectional

DIMENSION & WEIGHT

Dimensions: 65cm(L) x 61cm(W) x 55cm(H)
Weight: 56 Kg
Power: 100-240V, 50/60 Hz, 250VA

QUALITY CONTROL

L-J Graph

PERFORMANCE

Precision		
Parameter	Condition	Whole Blood CV %
WBC	(4.0~15.0)×10 ⁹ /L	=2.0%
RBC	(3.50~6.00)×10 ¹² /L	=1.5%
HGB	(110~180) g/L	=1.5%
PLT	(150~500) ×10 ⁹ /L	=4.0%
MCV	(80~110) fL	=1.0%

Linearity		
Parameter	Linearity	Deviation %
WBC	(0.00~100.0)×10 ⁹ /L	±0.30× or 10 ² /L
	(100.0~300.0)×10 ⁹ /L	±10%
RBC	(0.00~8.50)×10 ¹² /L	±0.05×10 ¹² /L
HGB	(0~250) g/L	±2g/L or ±2%
PLT	(0-1000)×10 ⁹ /L (RBC=7.0)	±10×10 ⁹ /L or ±8%
	(1001-3000)×10 ⁹ /L (RBC=7.0)	±12%
HCT	(0~67) fL	±2%

This Product is CE certified.



Z-GEM 5



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5 Part Hematology Analyzer

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Z-GEM 5+

5 Part Hematology Analyzer

5-Part Auto Hematology Analyzer
with Auto Loader



Throughput: 80 samples per
hour, CBC Mode 90 Samples
per hour



Sample volume: CBC+DIFF= 20 μ L
Inbuilt Barcode and Sample Mixer



25 Routine Parameters + 4 Research
Parameters ALY#, ALY%, LIC#, LIC% 5-
Part Differential Scattergram:
1 3D & 3 2D Scattergram
3- Histograms



Environment Friendly Reagents
DILUENT,LYSE 1,LYSE 2, LYSE 3
Cyanide free Lyse



Quality Control
L-J Graph
Automatic Mean,SD,CV %

