



# Z50

## HEMATOLOGY ANALYZER

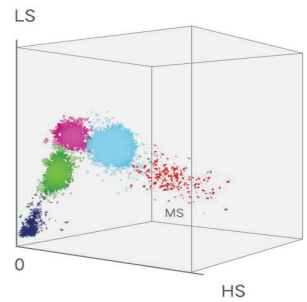
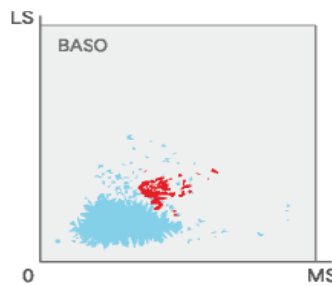
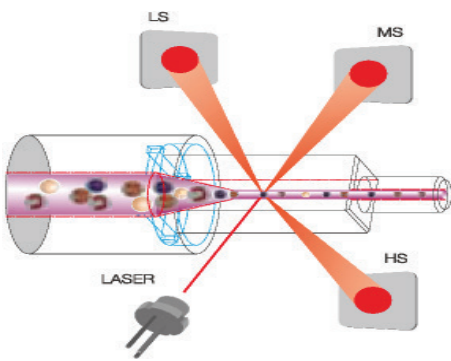
# HEMATOLOGY ANALYZER



## Hematology Analyzer Z5

Z5 is an evolved 5-diff hematology analyzer with compact design that eclipses traditional 5-diff hematology analyzer in the market. It is designed for upgrading your blood analysis solutions, which can provide 20 parameters, 2 scatter-grams and 2 histograms by advanced semiconductor laser scattering technology and flow cytometry. This Z5 enables beyond your expectation in small laboratory via highly integrated electronic boards, optimal hydraulic system and uncompromising performance.

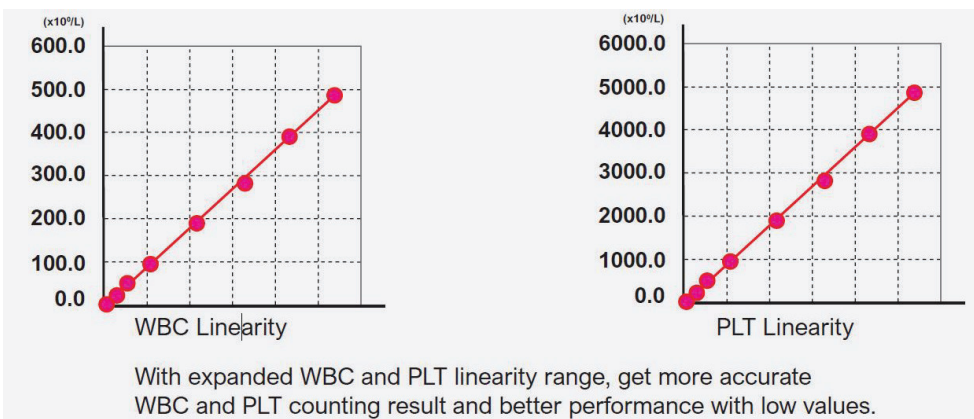
## Eclipse traditional 5-diff Hematology Analyzers



LS shows cellular volume • MS shows cellular complexity • HS shows cellular granularity

Bring you better 5 differentiations of WBC via distinctive tri-angle laser scatter, advanced flow cytometry and chemical dye, even on high eosinophilic samples.

Compared with WBC impedance counting channel, WBC/ BASO optical channel can deliver more confident results for basophil measurement



## Enable all possibilities beyond your expectation Enlighten small laboratories

CBC+ 5 DIFF with 25 reportable parameters and 4 research parameters  
 Two histograms for RBC, PLT and one 3D-scattergram for WBC differentiation and one  
 2D-scat-tergram for WBC/ BASO counting.  
 Only 18NL sample volume is required for venous and capillary blood test.  
 One click to remove error prompt, which is more intuitive and friendly.  
 Reagent monitoring varies from normal to abnormal status automatically in the software.  
 Optimized liquid handing system reduces reagent consumption.

## Enlighten small laboratories


Its highly integrated circuit boards, simplified liquid path system and two build-in reagents  
 of Lyse, all lead Z5 to a compact device which fits small labs.  
 8.4-inch touch screen brings convenience to clinicians with its wide viewing angle.  
 Complete all instrument operations on the screen for user, practically eliminating  
 the need for an external PC.  
 Support over twenty kinds of intelligent flags to indicate abnormal blood cell  
 differential and morphology


## Expanded clinical performance


Parameter	Background	Precision	Carry-over		Linearity range
		Detection Range	CV		
WBC(x10 <sup>9</sup> /L)	<0.2	(7.00-15.00)	<2.0%	<0.5%	(0-500.00)
RBC(x10 <sup>12</sup> /L)	x0.02	(3.50-6.00)	<1.5%	<0.5%	(0-8.00)
HGB(g/dL)	<0.1	(11.-18)	<1.5%	<0.5%	(0-25)
HCT(%)MCV(fL)	HCT<0.5	MCV:(70-120)	<0.5%		HCT:(0-67)
PLT(x10 <sup>9</sup> /L)	<5	(100-149)	<6.0%	/	(0-5000)
		(150-500)	<4.0%	<1.0%	


## Technical Specification

Principle	Flow cytometry + tri-angle laser scatter+ chemical dye method for WBC 5-diff differential analysis and WBC counting Impedance method for RBC and PLT counting Cyanide free reagent for HGB measurement
Mode	CBC, CBC+DIFF
Throughput	60 samples per hour
Parameters	25 reportable parameters: WBC, Lym%, Mono%, Neu%, Bas%, Eos%, Lym#, Mono#, Neu#, Bas#, Eos#, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, Parameters MPV, PCT, PDW, P-LCR, P-LCC 4 research : parameters: ALY%, ALY#, LIC%, LIC#
Graph	3-D DIFF scatter gram, 2-D BASO scatter gram 2 histograms for RBC and PLT
Sample Mode	Whole blood, Capillary blood, Pre-diluted
Sample Volume	18 pL
Reagent	Z5 LD Lyse, Z5 LB Lyse, Z5 DN Diluent, Probe cleanser
Calibration	Manual calibration Auto calibration: Fresh blood, calibrator
QC Rule	L-J, X-B, X-M, X-R
Screen	8.4-inch touch screen
Interface	4 USB port for external printer, external barcode scanner, mouse, keyboard, etc. 1 network port, HL7 protocol, support bilateral LIS.
Storage Capacity	>_50,000 results including numeric and graphical information
Power Supply	(100-240) V-, 50/ 60Hz, 200 VA
Operation environment	Temperature: (10-30) °C Humidity: (20-85) % Atmospheric Pressure: (70-106) kPa
Weight	24 Kg
Dimension (mm)	230(W)* 415(D)*435 (H)

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