



# Hematology Analyzer Z5

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(An evolved 5-diff hematology analyzer)



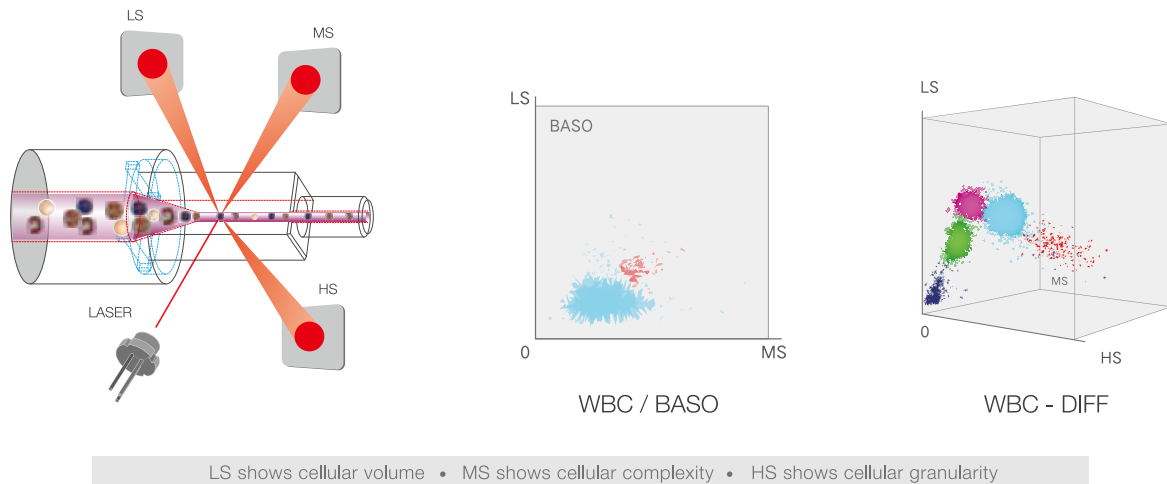
Hematology



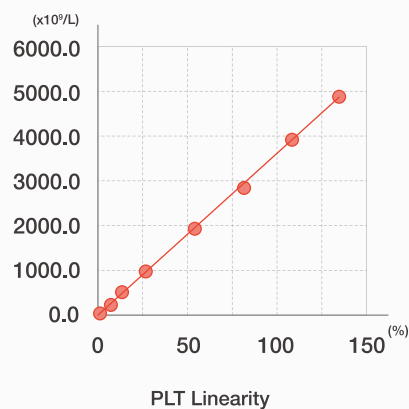
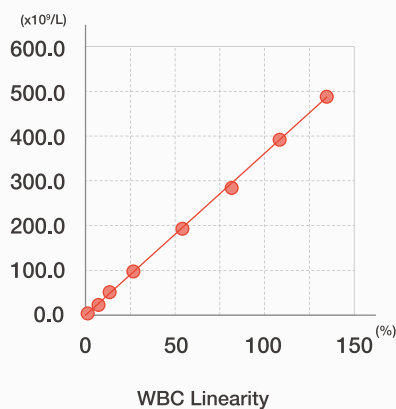
## Hematology Analyzer Z5

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 29 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



- 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.



- With expanded WBC and PLT linearity range, get more accurate WBC and PLT counting result and better performance with low values.

# Enable all possibilities beyond your expectation

- 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-scattergram for WBC/ BASO counting.
- Only 18 $\mu$ L 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 handling 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

Performance					
Parameter	Background	Precision		Carry-over	Linearity range
		Detection Range	CV		
WBC( $\times 10^9$ /L)	$\leq 0.2$	(7.00~15.00)	$\leq 2.0\%$	$\leq 0.5\%$	(0~500.00)
RBC( $\times 10^{12}$ /L)	$\leq 0.02$	(3.50~6.00)	$\leq 1.5\%$	$\leq 0.5\%$	(0~8.00)
HGB(g/dL)	$\leq 0.1$	(11~18)	$\leq 1.5\%$	$\leq 0.5\%$	(0~25)
HCT(%)/MCV(fL)	HCT $\leq 0.5$	MCV:(70~120)	$\leq 0.5\%$	/	HCT:(0~67)
PLT( $\times 10^9$ /L)	$\leq 5$	(100~149)	$\leq 6.0\%$	$\leq 1.0\%$	(0~5000)
		(150~500)	$\leq 4.0\%$		

# Technical Specification

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 measurment
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,
	MPV, PCT, PDW, P-LCR, P-LCC
Graph	4 research parameters: ALY%, ALY#, LIC%, LIC#
	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 µL
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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Hematology