

# Hematology Analyzer Z3

(A new generation 3-diff hematology analyzer)



Hematology

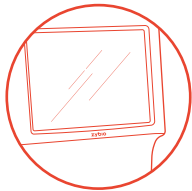


## Hematology Analyzer Z3

Z3 is a new generation 3-diff hematology analyzer with 21 parameters and 3 histograms. It is designed for laboratories with low-volume workload yet it is capable of serving medium or large laboratories as a back-up. This Z3 can deliver you confident results and maximize your workflow efficiency via its intuitive software interface, simplified hydraulic design and quality hardware module.

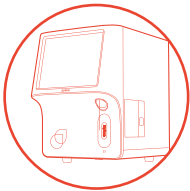


# Highlight



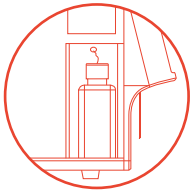
## Easy operation and maintenance

Intuitive navigation menu  
10.4-inch large touch screen



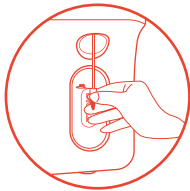
## Compact design

Small size for space saving



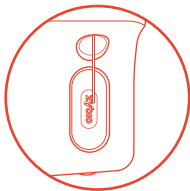
## Cost saving

Two reagents, lyse inside the analyzer  
Low reagent consumption



## Good performance in capillary blood mode

WB mode: 10  $\mu$ L  
PD mode: 20  $\mu$ L  
Applicable for pediatric dept.



## The fastest throughput

70 samples/h



# General Feature

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- One key to aspirate probe cleanser for deep cleaning in whole device
- Multi-language, such as Chinese, English, Spanish, Portuguese and etc.
- Freely shift parameter unit, including China, International, UK, French, Netherlands and etc.
- Longer shelf life up to 24 months for Diluent and Lyse
- Cyanide free measurement for HGB, stable and environment-friendly liquid
- Simplified and modern outer packaging stem from Swiss design
- Reagent inventory monitored by two ways including software and hardware components
- Automatically loaded lot number and expiry information through a barcode scanner



# Performance & Specification

Performance					
Parameters	Background	Precision		Carry-over	Linearity range
		Detection Limits	CV		
WBC( $10^9/L$ )	$\leq 0.2$	(7.00~15.00)	$\leq 2.0\%$	$\leq 0.5\%$	(0~300.00)
		(4.00~6.9)	$\leq 2.5\%$		
RBC( $10^{12}/L$ )	$\leq 0.02$	(3.50~6.50)	$\leq 1.5\%$	$\leq 0.5\%$	(0~8.00)
HGB(g/dL)	$\leq 1$	(11~18)	$\leq 1.5\%$	$\leq 0.5\%$	(0~25)
HCT(%)/MCV(fL)	HCT $\leq 0.5$	MCV:(70~110)	$\leq 0.5\%$	/	HCT:(0~67)
PLT( $10^9/L$ )	$\leq 5$	(100~149)	$\leq 5.0\%$	$\leq 1.0\%$	(0~4000)
		(150~500)	$\leq 4.0\%$		
Specification					
Principle	Impedance method for WBC, RBC, PLT counting				
	Cyanide free reagent for HGB test				
Parameter	21 Parameters: WBC, Lym#, Mid#, Gran#, Lym%, Mid%, Gran%, RBC, HGB, HCT,				
	MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCR, P-LCC				
	3 Histograms: WBC, RBC, PLT				
Throughput	70 samples per hour				
Sample volume	Whole blood: 10 $\mu$ l				
	Pre-diluted: 20 $\mu$ l				
Reagent	2 reagents+1 maintenance cleanser				
	(Diluent, Lyse, Probe cleanser)				
Calibration	Manual calibration				
	Auto calibration: calibrator, fresh blood				
QC	L-J,X-B				
Input	10.4-inch touch screen				
	Mouse, keyboard (optional)				
Output	Built-in recorder, external printer (optional)				
Data storage	$\geq 40,000$				
Interface	LAN port, HL7 protocol, support bilateral LIS				
	4 USB ports for external printer, external barcode scanner, keyboard, etc.				
Power requirement	100V-240V~, 50/60Hz, < 200W				
Working environment	15°C-35°C				
Weight	18Kg				
Dimension(mm)	300(W)X400(D)X410(H)				



**Zybio Inc.**

Address: Floor 1 to Floor 4, Building 30, No.6 of Taikang Road,  
Block C of Jianqiao Industrial Park, Dadukou District, Chongqing, China 400082

Tel: +86-23 6865 5509 Fax: +86-23 6869 9779

Email: [info@zybio.com](mailto:info@zybio.com) Website: [www.zybio.com](http://www.zybio.com)

Hematology