

# Hematology Analyzer Z3

(A new generation 3-diff hematology analyzer)



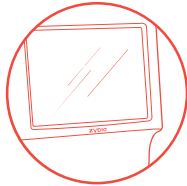


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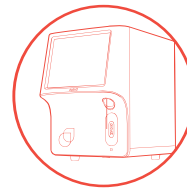
Z3 is a new generation 3-diff hematology analyzer with 21 parameters and 3 histograms. It is designed for laboratories with low-volume workload yet it is capable of serving medium or large laboratories as a back-up. This Z3 can deliver you confident results and maximize your workflow efficiency via its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

# Highlight



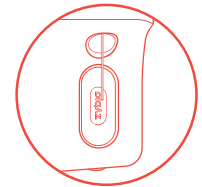
## Easy operation and maintenance

Intuitive software  
Navigation menu



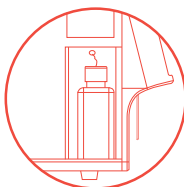
## Compact design

Small size for space saving



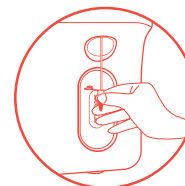
## The fastest throughput

70 samples/h



## Cost saving

Two reagents, lyse inside the analyzer  
Low reagent consumption



## Good performance in capillary blood mode

Pediatric dept. application



# Performance & Specification

## Performance

Parameters	Background	Precision		Carry-over	Linearity range
		Detection Limits	CV		
WBC( $10^9/L$ )	$\leq 0.2$	(7.00~15.00) (4.00~6.9)	$\leq 2.0\%$ $\leq 2.5\%$	$\leq 0.5\%$	(0~300.00)
RBC( $10^{12}/L$ )	$\leq 0.02$	(3.50~6.50)	$\leq 1.5\%$	$\leq 0.5\%$	(0~8.00)
HGB(g/L)	$\leq 1$	(110~180)	$\leq 1.5\%$	$\leq 0.5\%$	(0~250)
HCT(%)/MCV(fL)	HCT $\leq 0.5$	MCV:(70~110)	$\leq 0.5\%$	/	HCT:(0~67)
PLT( $10^9/L$ )	$\leq 5$	(100~149) (150~500)	$\leq 5.0\%$ $\leq 4.0\%$	$\leq 1.0\%$	(0~4000)

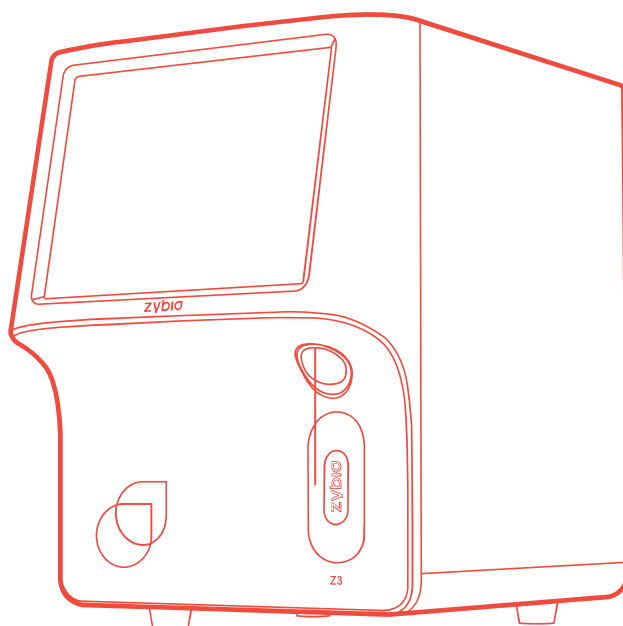
## Specification

Principle	Impedance for WBC, RBC, PLT counting Colorimetric for HGB
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)

# Z3

## General Feature

- Throughput: 70 samples per hour
- Simplified liquid system design
- CBC+3 DIFF with 21 parameters and 3 histograms
- Easy operation by using 10.4-inch touch screen
- Only 2 reagents required for sample analysis
- 10  $\mu$ L sample only is required for test
- Impedance for WBC, RBC, PLT counting and sizing



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