

Throughput
40 samples/hour

Principle
Impedance for WBC, RBC, PLT
Cyanide-free method for HGB

Parameters
24 parameters including: WBC, Neu#, Lym#, Gran#, Neu%, Lym%, Gran%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-SD, RDW-CV, PLT, MPV, PDW-SD, PDW-CV, PCT, P-LCR, P-LCC, NLR, PLR
Histograms
3 histograms (WBC, RBC, PLT)

Sample volume
Whole blood mode: 10µl
Prediluted mode: 20µl

19 Species
Dog, cat, rabbit, horse, sheep, goat, rat, mouse and more.

Quality control
3-level QC
L-J QC, X-B QC

Reagent
Diluent: 5L, Lyse: 250ml
Probe cleanser: 50ml

Print
Auto print, manual print

Communication
Support Bi-directional LIS

Language
English, Spanish, Italian, French, Russian, etc.

Input and output
8 inch touch screen
Internal printer, support external printer

Interface
USB port, Network port

Storage
300,000 results with histograms

Blockage clear
High voltage, high pressure flush

Dimension
430mm*280mm*400mm(D*W*H)

Net weight
17.5kg

Work environment
10-40°C, 10%-90%
100-240 AC, 50/60Hz, 160VA
70kPa-106.0kPa

Performance

Precision	Parameter	CV	Measurement range
	WBC	≤ 3.0%	(4.0-15.0)×10 ⁹ /L
	RBC	≤ 3.0%	(3.5-6.0)×10 ¹² /L
	HGB	≤ 2.0%	(110.0-180.0)g/L
	MCV	≤ 1.0%	(80.0-110.0)fL
PLT	≤ 6.0%	(150.0-500.0)×10 ⁹ /L	

Linearity	Parameter	Measurement range
	WBC	(1-200.0)×10 ⁹ /L
	RBC	(0-17.00)×10 ¹² /L
	HGB	(0-250.0)g/L
PLT	(0-5000)×10 ⁹ /L	

VH 20

3-Part Hematology Analyzer



REDEFINE 3-PART HEMATOLOGY

Intelligent 4C Unit



Real-time monitoring



Editable report



Color printing

Creative

Smart counting mode
For low WBC, PLT, or WBC/PLT samples
Better linearity for WBC and PLT

Closed

Built-in card reader
Lyse and diluent closed
Unique card for each bottle

Compact

Smaller and lighter design
8 inch touch screen
Reagent room for Lyse
Built-in and external printer

Considerate

Highlighted indicator light
Bi-directional LIS connection
Software update by USB drive



Para	Result	Unit	Para	Result	Unit
WBC	L 0.00	10 ⁹ /L	MCH	***	pg
Lym#	***	10 ⁹ /L	MCHC	***	g/L
Mid#	***	10 ⁹ /L	RDW-CV	***	%
Gran#	***	10 ⁹ /L	RDW-SD	***	fL
Lym%	***	%	PLT	L 0	10 ⁹ /L
Mid%	***	%	MPV	***	fL
Gran%	***	%	PDW-CV	***	%
RBC	L 0.00	10 ¹² /L	PDW-SD	***	fL
HGB	L 0	g/L	PCT	***	mL/L
HCT	L 0.000	%	P-LCC	***	10 ⁹ /L
MCV	***	fL	P-LCR	***	%

Powerful data management

Up to 300,000 results
Flag information for better diagnostics
Data export and QC file import by USB drive

Replace	Reagent Name	Open Date	Expiry Date	Residual Volume
1	Diluent	07-06-2019	09-04-2019	16.16%
2	Lyse	07-06-2019	09-04-2019	41.75%

Real-time monitoring

Reagent status (expiry date, residual, etc.)
Unit status (voltage, pressure, etc.)
Test number (amount in different modes)

Maintenance	Clean	Fluidics
Fluidics	Sample Probe	Counting chamber

Smart maintenance

Hardware self-checking
Multiple maintenance functions
Smart prompt and one-touch to remove error