

Throughput

60 samples/hour

Principle

Flow Cytometry by Laser for WBC
Cyanide-free method for HGB
Impedance for RBC, PLT

Species

19 species, and support custom species; Cat, Dog, Rabbit, Sheep, Goat, Cattle, Horse, Rat, Mouse, Llama, Deer, Musk deer, Tiger, Monkey, Dolphin, Pig, Camel, Ferret

Parameters

28 parameters: WBC, LYM%, MON%, NEU%, BAS%, EOS%, LYM#, MON#, NEU#, EOS#, BAS#, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW-CV, PDW-SD, PCT, P-LCR, P-LCC, NLR, PLR

8 research parameters: LIC%, LIC#, ALY%, ALY#, NRBC%, NRBC#, PLT Clumps%, PLT Clumps#
4 scattergrams for WBC differential
2 histograms for RBC and PLT,

Sample volume

Whole blood mode: 20ul
Capillary mode: 20ul
Prediluted mode: 20µl

Calibration

Manual calibration, auto calibration

Quality control

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

Reagent

DIFF Lyse, LH lyse
Diluent, Probe cleanser

Net weight

28kg

Interface

4 USB ports, 1 Network port

Data transmission

With VIMS software
Support Bi-directional LIS

Storage

60,000 results with scattergrams & histograms

Input and output

10.4 inch touch screen
Reagent room for lyse
Internal printer

Dimension

430(D)×350(W)×430(H)mm

Work environment

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

Language

English, Spanish, Italian, French,
Russian, Portuguese, Ukrainian, etc.

Performance

Parameters	Precision (CV)	
WBC	≤ 2.0%	(4.0 - 15.0)×10 ⁹ /L
RBC	≤ 2.0%	(3.5 - 6.0)×10 ¹² /L
HGB	≤ 1.5%	(110.0 - 180.0)g/L
MCV	≤ 1.0%	(70.0 - 120.0)fL
PLT	≤ 4.0%	(150.0 - 500.0)×10 ⁹ /L

Parameters	Linearity range
WBC	(0-500.0)×10 ⁹ /L
RBC	(0-8.00)×10 ¹² /L
HGB	(0.0-250.0)g/L
PLT	(0-5000)×10 ⁹ /L

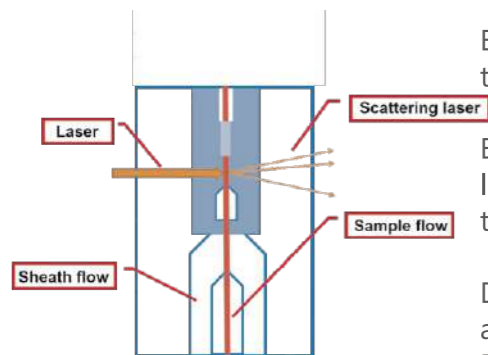
VH 50



5-Part Auto Hematology Analyzer

Latest innovation

Tri-angle laser scattering and flow cytometry



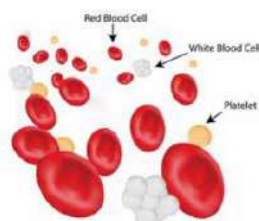
Blood cells are surrounded with sheath fluid(diluent), they pass through the center of the flow cell one by one at high speed.

Blood cells are exposed to a laser beam. The intensity of scatter light reflects the blood cell size and intracellular density. The tri-angle laser scattering contributes to more accurate counting.

Diff lyse is added to differentiate 4 kinds of WBC(Lym, Mon, Neu and Eos), LH lyse is used to differentiate Bas and count WBC. Besides, there is a dedicated channel for Bas differentiation.

Unique Design

Smart counting mode



Analysis mode:①Whole blood②Pre-diluted③Smart counting
Smart counting with better repeatability for low WBC / PLT value samples.

Application scenario:

Neonatal pups, sick dogs and cats; Such as viral infections, feline panleukopenia, feline abdominal transmission.

19 species available

Passed clinical tests



Every species with specific reference range.

Gather the blood sample of 19 species for clinical test; The mean value and coefficient of variation are within the range, and make sure that we can get accurate results and clear histogram.

Strong software

User-friendly



Powerful data management

- 28+8 reportable parameters for better diagnosis
- Flag information offered for abnormal Indicator
- VIMS software provided for data transmission

Compact Yet Powerful



Reliable hardware, accurate results

- Long life semi-conductor laser to differentiate WBC into 5 parts
- Ceramic syringe to assure precise reagent or sample aspiration
- Famous liquid parts (SMC valves and KNF pump) and simplified liquid system

Built-in operating system

- No extra PC required
- 10.4-inch touch screen



Convenient printout solution

- Built-in thermal printer
- Support external printer via USB
- Editable print template



Easy reagent management

- 3 reagents (2 Lyse, 1 Diluent) only, cost-effective
- Lyses placed inside for space saving



Automatic access to information

- RFID card reader: access to reagent information
- Built-in barcode scanner(optional)