

zytopia



Veterinary Hematology Solution

Animal healthcare

Mode	Z4Vet	Z41Vet	Z50VET	Z52VET
Appearance		/		
Throughput	60 sample/h	40 sample/h	60 sample/h	60 sample/h
Parameters & Graphic	• 23 parameters • 4 histograms for WBC/EOS/RBC/PLT			
Animal Type	Dog, cat, hamster, guinea pig, cow, sheep, rabbit, mink, pig, alpaca			
Built-in Thermal printer	√	√	×	√
RFID reader	External		Built-in	External



- Less footprint, $\approx 0.12 \text{ m}^2$
- Light weight, $< 20 \text{ Kg}$
- High throughput, 60 T/H

Compact and light-weight design suitable for small lab

Built-in Thermal
Printer



Built-in two lysers

Indicator Light
(status: **normal**, **sleep**, **error**)



10.4-inch Touch Screen

Sampling Probe

Sampling Button



U Disk



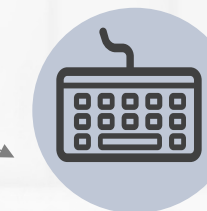
Dual-directional
LIS via HL7 protocol



Barcode reader



4 USB Ports + 1 LAN Port



Keyboard

- Conveniently process sample information, improve your work efficiency



23 Parameters
for dog and cat

21 Parameters
for cattle, sheep,
etc*.

*rabbit, hamster, guinea
pig, mink, pig, alpaca

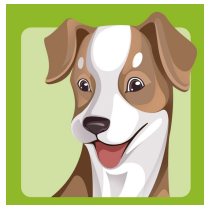
All parameters that can be detected are listed : **23 Parameters, 4 Histograms**

Parameters	Parameters	Histograms
WBC	MCV	WBC Histogram
Lym#	MCH	RBC Histogram
Lym%	MCHC	PLT Histogram
Mon#	RDW-CV	EOS Histogram*
Mon%	RDW-SD	
Gran#	HCT	
Gran%	PLT	
Eos#	MPV	
Eos%	PDW	
RBC	PCT	
HGB	P-LCR*/P-LCC*	

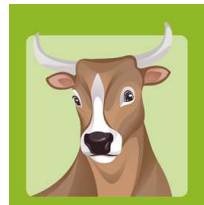
***Only for dog and cat**



Cat



Dog



Cow



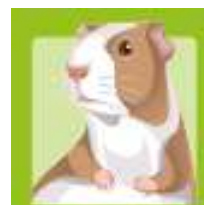
Sheep



Rabbit



Hamster



Guinea pig



Mink



Pig



Alpaca

- Veterinary – specific algorithms for over **10 species and several customized species**

Ref. Range					
Para.	Lower Limit	Upper Limit	Para.	Lower Limit	Upper Limit
WBC	5.50	19.50	MCV	38.0	54.0
Neu#	3.12	12.58	MCH	11.8	18.0
Lym#	0.73	7.86	MCHC	290	360
Mon#	0.07	1.36	RDW-CV	16.0	23.0
Eos#	0.06	1.93	RDW-SD	26.4	43.1
Bas#	0.00	0.12	PLT	100	518
Neu%	38.0	80.0	MPV	9.9	16.3
Lym%	12.0	45.0	PDW	12.0	17.5
Mon%	1.0	8.0	PCT	0.090	0.700
Eos%	1.0	11.0	P-LCC		
Bas%	0.0	1.2	P-LCR		
RBC	4.60	10.20			
HGB	85	153			
HCT	26.0	47.0			

Animal type

Cat

Dog

Cattle

Sheep

Rabbit

Hamster

Guinea pig

Mink

Pig

Alpaca

- **Distinctive reference range** for several animal types, including small animal and livestock.

Built-in two lysers

Built-in Thermal
Printer



8.4-inch Touch Screen

Sampling Probe

Sampling Button



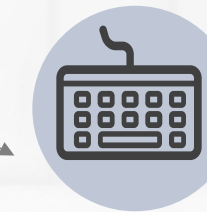
U Disk



LIS via HL7 protocol



Barcode reader

**4 USB Ports + 1 LAN Port**

Keyboard

- Conveniently process sample information, improve your work efficiency



- Blood counting for animal only consumes **18µL whole blood** for WBC 5-part differentiation result.
- Blood counting for animal only consumes **10µL whole blood** for WBC 3-part differentiation result.

Reagent name	Specification	Shelf Life	Open-vial Stability	Storage Temperature
V-LB Lyse	160 mL/Bottle 100 mL/Bottle	24 months	90 days	4-30 °C
V-LD Lyse	280 mL/Bottle 480 mL/Bottle			
V-5DN Diluent	10 L/Bucket			
VET-P Probe Cleanser	50 mL ×2 Bottle/Box	12 months	60 days	

- Stable and environment-friendly liquid, **ready-to-use reagents**
- **Small package, long shelf life** for a great quantity storage

Reagent Name	Specification	Storage Temperature	Open-vial Stability	Shelf Life
V4-LH Lyse	160 mL/bottle	4~30 °C	90 Days	24 Months
V-4DN Diluent	10 L/bucket	4~30 °C	90 Days	24 Months
VET-P Probe Cleanser	50 mL×2/box	4~30 °C	60 Days	12 Months
V-CAL Calibrator	3 mL/vial	2~8 °C	7 days	35 days
V-4D Control (L/N/H Level)	3 mL/vial	2~8 °C	14 days	105 days

Reagent Name	Specification	Storage Temperature	Open-vial Stability	Shelf Life
V-LB Lyse	60 mL/bottle	4~30 ℃	90 Days	24 Months
	100 mL/bottle	4~30 ℃	90 Days	24 Months
V-LD Lyse	280 mL/bottle	4~30 ℃	90 Days	24 Months
	480 mL/bottle	4~30 ℃	90 Days	24 Months
V-5DN Diluent	10 L/bucket	4~30 ℃	90 Days	24 Months
VET-P Probe Cleanser	50 mL×2/box	4~30 ℃	60 Days	12 Months
V-CAL Calibrator	3 mL/vial	2~8 ℃	7 days	35 days
V-5D Control (L/N/H Level)	3 mL/vial	2~8 ℃	14 days	105 days

Parameter	Background	Precision		Carry-over	Linearity range
		Detection Range	CV		
WBC ($\times 10^9/L$)	≤ 0.20	(3.00-15.0)	$\leq 3.0\%$	$\leq 0.5\%$	(0-500.00)
RBC ($\times 10^{12}/L$)	≤ 0.02	(3.50-10.0)	$\leq 2.0\%$	$\leq 0.5\%$	(0-17.00)
HGB (g/L)	≤ 0.1	(11-18)	$\leq 2.0\%$	$\leq 0.5\%$	(0-250)
HCT(%) / MCV(fL)	HCT ≤ 0.5	MCV: (40-110)	$\leq 1.0\%$	/	HCT: (0-67)
PLT ($\times 10^9/L$)	≤ 5	(100-500)	$\leq 6.0\%$	$\leq 1.0\%$	(0-5000)

- Wider linearity range for more accurate results.

25 Parameters
for canine,
feline, rabbit,
hamster, guinea
pig, mink, pig,
alpaca

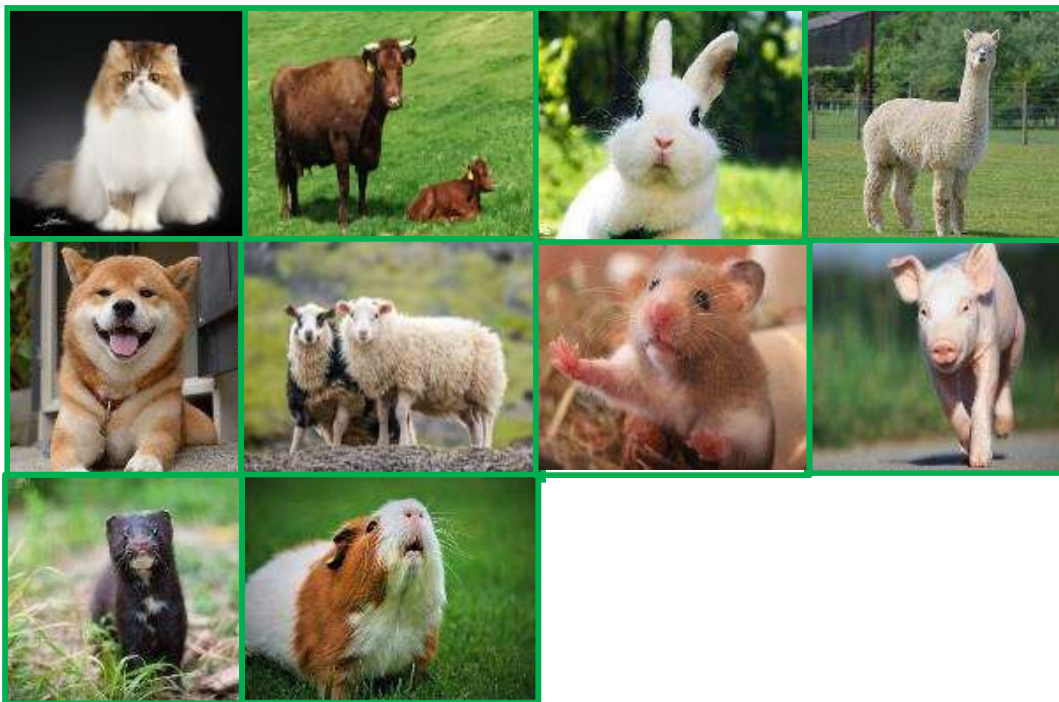
4 2D scattergrams
1 3D scattergram
3 Histograms
(RBC, WBC, PLT)



• Visual icon for recognizing animal type

Para.	Result	Unit	Ref. Range
RBC	4.42 ↓	10 ¹² /L	5.10 - 8.50
HGB	94 ↓	g/L	110 - 190
HCT	26.5 ↓	%	33.0 - 56.0
MCV	59.8 ↓	fL	60.0 - 76.0
MCH	21.3	pg	20.0 - 27.0
MCHC	356	g/L	300 - 380
RDW-CV	13.4	%	12.5 - 17.2
RDW-SD	30.9 ↓	fL	33.2 - 46.3
PLT	88 ↓	10 ⁹ /L	117 - 490
MPV	15.9 ↑	fL	8.0 - 14.1
PDW	15.9	fL	12.0 - 17.5
PCT	0.140	%	0.090 - 0.580
P-LCC	69	10 ⁹ /L	28 - 92
P-LCR	78.4 ↑	%	10.5 - 47.6

• Dedicated reference range display for accurate result prompt.



Ref. Range						Animal type
Para.	Lower Limit	Upper Limit	Para.	Lower Limit	Upper Limit	
WBC	5.50	19.50	MCV	38.0	54.0	Feline
Neu#	1.80	12.58	MCH	11.8	18.0	
Lym#	0.73	7.86	MCHC	290	360	Feline
Mon#	0.07	1.36	RDW-CV	13.2	25.6	Canine
Eos#	0.06	1.93	RDW-SD	23.7	45.6	Cattle
Bas#	0.00	0.12	PLT	80	518	Sheep
Neu%	38.0	80.0	MPV	9.9	16.3	Rabbit
Lym%	12.0	45.0	PDW	12.0	17.5	Hamster
Mon%	1.0	8.0	PCT	0.090	0.700	Guinea pig
Eos%	1.0	11.0	P-LCC			Mink
Bas%	0.0	1.2	P-LCR			Pig
RBC	4.60	10.20				Alpaca
HGB	85	153				
HCT	26.0	47.0				

- Rich customized specific algorithms for over **10** animals
- **Distinctive reference range** for several animal types, including small animal and livestock.

Application Scenario

- Veterinary Hospital
- Small Animal Hospital
- Veterinary Research Institute
- Ranch, Farm, etc.



Thanks for your attention.

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To make diagnosis more accurate,
to make life healthier.

