

# diatron●●

# Abacus Vet5

5-part WBC  
differential  
veterinary  
analyzer





# Analyzer Overview

Diatron has utilized its many years of expertise in developing and manufacturing hematology analyzers for the human clinical market to produce this recently introduced veterinary analyzer for exclusive use in the animal healthcare field. The **Abacus Vet5** features a **large touch screen** and has an **intuitive user interface** to offer an **optimal solution** for **veterinary clinics** and **practices** which require a high quality hematology analyzer.

## Benefits and Key Features

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### Easy to use

- › With its large capacitive touch screen and user-friendly interface allows accurate data entry and monitoring of results and histograms enabling fast and efficient operation. Results can be retrieved via an on-board or an external printer. For those environments requiring it, the system can connect to a Laboratory Information System (LIS) using the HL7 communication protocol.


### High performance

- › The Abacus Vet5 offers 5-part differential WBC results on Dog, Cat, Cattle, Horse, and 3-part differential WBC results on Mouse, Rat, Rabbit, Ferret, Sheep, Goat, Pig, Guinea Pig and Primates.

### Convenient

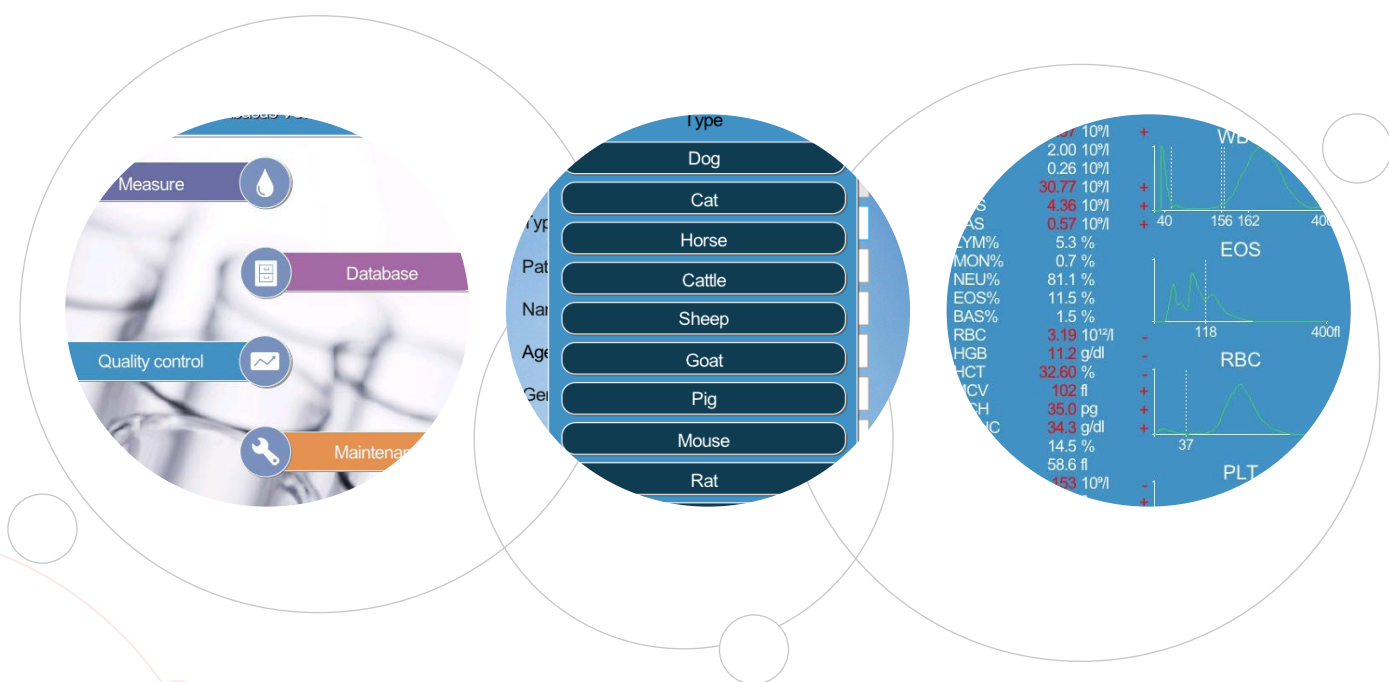
- › Its compact size and associated reagent pack mean that the system requires only a small space and storage and shipping of reagents is simple.

### Reliable and efficient

- › Each Abacus Vet5 analyzer is almost maintenance-free resulting in minimal downtime and can store up to 5000 results.
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## Diatron Reagents

Our **ISO 13485 certified reagent production** is designed to meet the **highest quality standards** with all lots performance tested before release for sale. The Diatro-Lyse-Vet is cyanide-free and all reagents have an unopened **shelf life up to 36 months** when stored appropriately. The use of the hardware key ensures that only Diatron reagents can be used thus ensuring the best performance and quality of results.



# Specifications

## Samples

- › Throughput - Up to 25 samples/hour
- › Parameters - 24 hematology parameters, including 5-part WBC differential: WBC, LYM, MON, NEU, EOS, BAS, LYM%, MON%, NEU%, EOS%, BAS%, RBC, HCT, MCV, RDWc, RDWs, HGB, MCH, MCHC, PLT, PCT, MPV, PDWc and PDWs

## Technology

- › Volumetric Impedance measurement
- › Light absorbance measurement for HGB
- › Aperture diameter - 80 µm
- › Sample volume - 25/50 µl of whole blood in 3/5 part mode
- › Sampling method - Open tube system with automatic sample rotor

## Sample profiles

- › Five-part mode: dog, cat, horse and cattle
- › Three-part mode: mouse, rat, rabbit, ferret, pig, sheep, goat, guinea pig and primates

## Reagents

- › Reagent pack containing Isotonic Diluent (Dil Vet), Lyse Vet, Diff Vets, Cleaner and Rinse Vet
- › Diatro-Vet5 Reagent Pack: up to 200 measurements
- › Hardware key protected pack

## User interface

- › Easy-to-use, menu driven user interface without hardware function buttons
- › Screen type - Capacitive 8" (173x104 mm), LED backlit, color graphics LCD
- › Data storage capacity - up to 5000 results, including histograms
- › Printer options - Built in thermal printer (58mm wide paper)
- › LJ charts - Trend function allows to display with a Levey-Jennings chart the selected records from the database
- › Screen resolution - 480 x 800

## Communication protocol

- › ASCII-based communication protocol only
- › HL7 communication

## Technical features

- › Cleaning functions - Automatic Self Clean, Clean Washhead, Drain Chamber, Hard Cleaning, 5 Cycle Clean, Bleaching
- › Export function - 3 level export type: Simple, Advanced, Extended
- › Optional barcode reader for sample ID and QC Data upload
- › Log file - Display history of analyzer actions/errors

## Physical parameters

- › Size (Width x Depth x Height)  
31,5cm x 27,5cm x 37,0cm  
12.4 in x 10.8 in x 14.5 in
- › Weight - ~13kg/28.6lbs
- › Power supply - 100-240V AC, 12V DC

## Communication interface

- › LAN
- › USB

### Diatro-Vet5 Reagent Pack

Cat. No.	Product name	Pack size
DRPozHK	Diatro-Dil-Vet	10L
	Diatro-Lyse-Vet	200mL
	Diatro-Diff-Vets	800mL
	Diatro-Rinse-Vet	500mL
	Diatro-Cleaner	300mL

### Analyzer

Description	Catalogue No
Abacus Vet5	AV5



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Diatron reserves the right to change any of the specifications without prior notice. Version Nr. AV5171003V4

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