seamaty

VM2 AI Multifunctional Morphological Analyzer

AI-Powered. Cloud-Connected. Clinic-Ready.

Why Choose the VM2?

Feature	VM2	Conventional Analyzers
AI-based interpretation	✓	✗ / Limited
Digital imaging	✓	✗ / Optional
No reagent liquids	✓	✗ (requires waste/reagents)
Cloud-native	✓	✗ (usually PC-based)
Maintenance	Minimal	Moderate to high

Technical Specifications

Test Samples	Whole blood	**Specimen Volume**	100μl (standard) / 20μl (trace)
Barcode Reading	QR code automatic reading	**Power Supply**	Input: AC220V, 50Hz
Method of Analysis	Staining, colorimetry, etc.	**Memory Space**	Max. 500,000 customer records
Operating Environment	Temperature: 10-30°C; humidity: ≤85%	**Test Principle**	Formed element analysis technology
Data Interface	4 USB interfaces; 1 network Interface	**Dimensions**	275 (L) × 235 (W) × 289 (H) (excluding rotating display screen)
Printer	Built-in thermal printer	**Weight**	8.3Kg
Operation Interface	Android, 9-inch 1024×600 multi-touch capacitive screen, multi-language support		

Contact & Demo

Want to see the VM2 in action?

Contact your local Seamaty representative or visit [www.seamaty.com] for demo videos, cloud access, and a personalized quote.

Scan the QR code to schedule a virtual walkthrough or download the full user guide.

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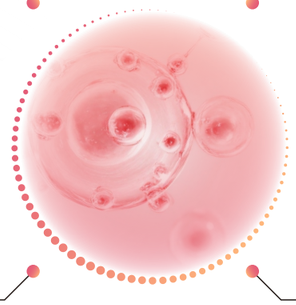
Reimagine Hematology Diagnostics

The Seamaty VM2 is a next-generation blood analyzer built for the modern veterinary clinic. Powered by artificial intelligence and free from liquid reagents, it delivers fast, precise, and cloud-accessible diagnostics, without requiring a PC or complex setup. Designed for space-constrained environments and demanding workflows, the VM2 combines clean operation, intelligent interpretation, and full connectivity in a compact form factor.

Key Features at a Glance

- *AI-based cell recognition and classification*
- *Compact, quiet, and space-saving*
- *No liquid reagents – zero maintenance*
- *Real-time digital imaging of blood cells*
- *Cloud-native: connect and operate without a PC*
- *Seamless integration with LIS and remote access tools*



Hematological Morphology Analysis

Clinical Applications

- *Routine CBC for dogs, cats, and exotic animals.*
- *Flagging and interpretation of abnormal cell morphology.*
- *Ideal for emergency screenings, pre-surgical checks, chronic disease monitoring…*
- *Instant access to results via cloud or mobile portal.*
- *Diagnostic support even in small clinics or mobile units.*

Measured Parameters

Category	Parameters
White Blood Cells 20 reportable items	WBC, Neu#, Nst#, Seg-N#, HSeg-N#, Lym#, Mon#, Eos#, Bas#, Neu%, Nst%(WBC), Seg-N%(WBC), HSeg-N%(WBC), Lym%, Mon%, Eos%, Bas%, Nst%(Neu), Seg-N%(Neu), HSeg-N%(Neu)
Red Blood Cells 16 reportable items	RBC, HCT, Hb, MCV, MCH, MCHC, RDW-CV, RDW-SD, **Reti#, NRBC#**, Macro#, Micro#, **Reti%, NRBC%**, Macro%, Micro%
Platelets 7 reportable items	PLT, MPV, PCT, PDW, P-LCC, P-LCR, PLT Clumps
Morphological Abnormalities **Cells with abnormal morphology detected in the sample will be flagged in the report.*	**Sphere#, Sphere%, Ghost RBC#, Ghost RBC%**, Acantho#, Acantho%, Stomato#, Stomato%

Artificial Intelligence at Work

The VM2 integrates AI algorithms trained on veterinary-specific datasets to:

- *Automatically detect and classify blood cells*
- *Flag abnormal morphology in real time*
- *Support diagnostic decisions with contextual interpretation*
- *Continuously improve accuracy through cloud-enhanced learning models*

Connectivity & Integration

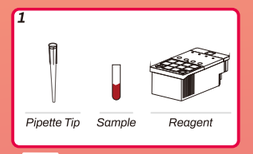
- *Built-in cloud connection: no external PC or software required*
- *Access results from any device (browser/mobile)*
- *Seamaty LIS integration via WiFi*
- *Secure data backup and user management through the Seamaty cloud platform*

Zero Liquid Hassle

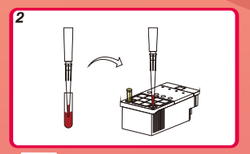
- *No reagents or diluents required*
- *Clean, dry operation with simplified logistics*
- *No waste handling or storage needs*
- *Lower total cost of ownership and setup footprint*

User-Friendly Workflow

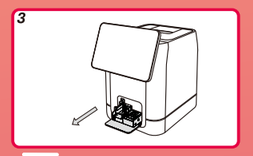
- *Touchscreen interface for intuitive use*
- *Step-by-step guided sample loading*
- *Automated operation from sample to result*
- *Results displayed, stored, and uploaded automatically*



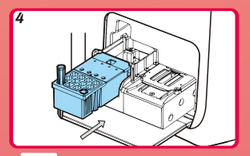
Item Preparation



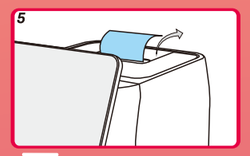
Sample Loading



Click "Test"; the reagent chamber will pop out automatically and open the door



Put in the reagent



After the test is completed, the report will be printed automatically.

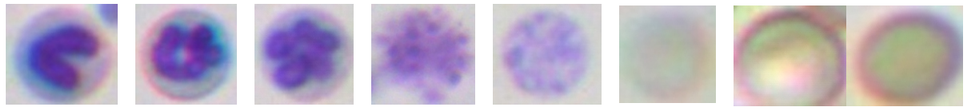
The VM2 uses the proprietary Seamaty interface system, the same intuitive UX found across the Seamaty ecosystem. This ensures ease of use for clinics already familiar with Seamaty devices, reduces onboarding time for new users, and promotes seamless workflow integration.

See What the Analyzer Sees

"Precision You Can Visualize".

The VM2 captures high-resolution digital images during each analysis, enabling visual confirmation of cellular morphology. Thanks to its high-grade optical components and intelligent digital processing, the analyzer can scan and interpret dozens of fields per sample, ensuring high accuracy and full blood smear representation.

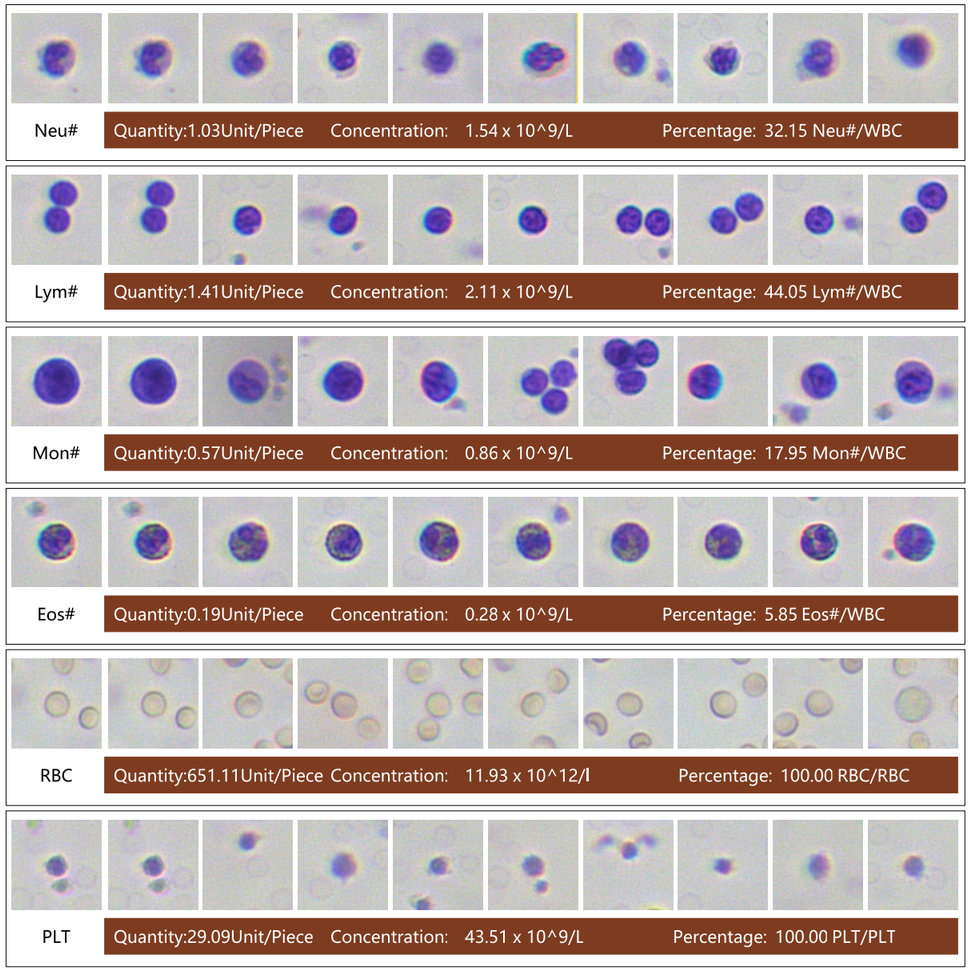
- ***Real-time imaging of WBCs, RBCs, PLTs.***
- ***Morphological analysis: essential cell morphologies.***



Nst ***Seg-N*** ***HSeg-N*** ***PLT Clump*** ***Reticulocyte*** ***Ghost RBC*** ***Normal RBC & Spherocyte***

*In blood analysis, cellular morphology provides vital diagnostic clues. Specific forms such as **segmented neutrophils, spherocytes,** and **reticulocyte** offer direct evidence for conditions like infection, anemia, and hematological disorders. Morphological detection, when combined with cell counting, enables a comprehensive hematological assessment, delivering complementary and indispensable value for clinical diagnosis.*

- ***On-screen and cloud-accessible image review.***
- ***Greater diagnostic confidence at a glance.***



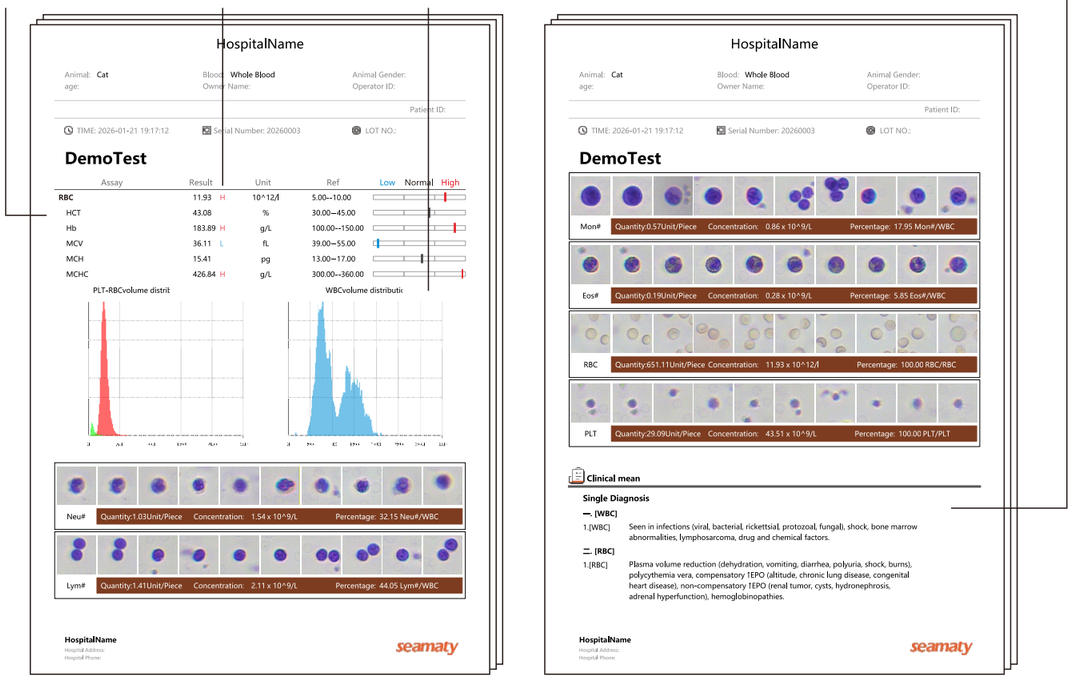
Sample Report Preview

Full blood count with reference ranges

Highlighted abnormal results

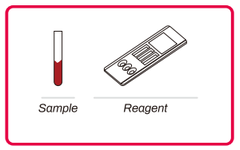
Optional visual outputs for flagged sample

Interpretive comments powered by AI



Built-in Immunofluorescence Capability

Unlike most hematology analyzers in the veterinary market, the Seamaty VM2 integrates a built-in immunofluorescence (IF) module. This powerful addition enables the measurement of crucial biomarkers related to inflammation, infection, organ function, and hormonal balance, expanding the analyzer's clinical utility well beyond blood cell counts.



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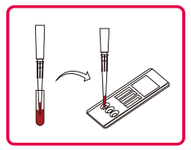
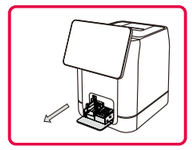


Sample Loading



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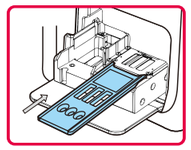

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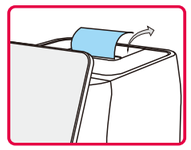

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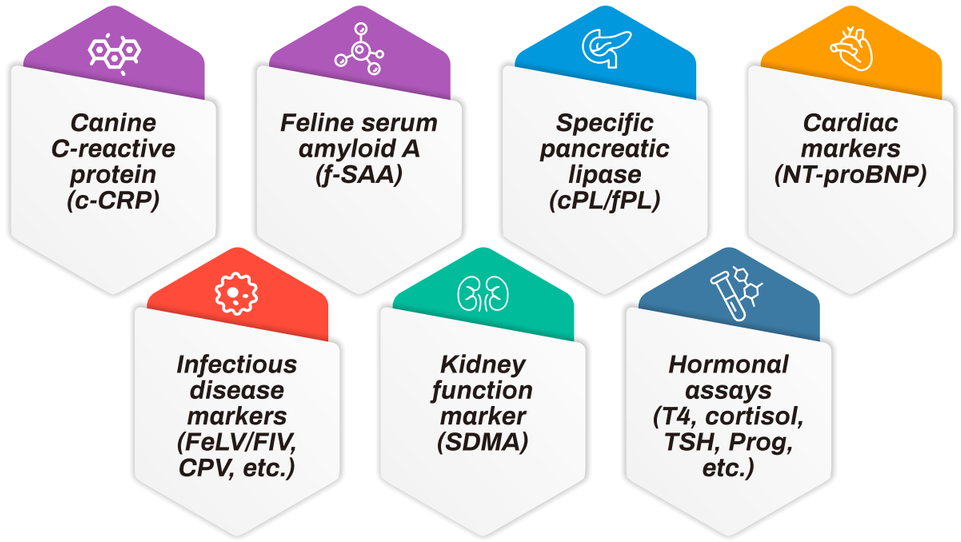
This makes the VM2 one of the very few systems capable of delivering:



The key immunofluorescence parameters featured, such as SDMA, SAA, CRP, and fPL/cPL, address core clinical needs including early kidney disease screening, inflammation monitoring, and pancreatitis diagnosis. Combined with infectious disease and hormone testing, they provide accurate laboratory evidence for internal medicine, emergency care, and endocrine health management in dogs and cats, serving as an essential tool to support rapid clinical decision-making.

Additionally, if a Seamaty standalone immunofluorescence (Vi1, VG2 or Lab 3Dx series) device is already in use at the clinic, the VM2 allows parallel testing, enabling two IF parameters to be run simultaneously, improving efficiency and reducing diagnostic turnaround time.

Future-Ready Platform

The VM2 is more than a hematology analyzer, it's a scalable diagnostic platform. With upcoming add-ons under development, the VM2 is designed to support future modules for urinalysis and fecal testing. Thanks to its upgradable software and smart hardware design, Seamaty ensures the VM2 grows with your clinic's diagnostic needs without requiring new devices.