![Sysmex logo] Lighting the way with diagnostics

Veterinary solutions

Less blood.
Deeper insight.

Veterinary haematology
the smart way

Veterinary haematology can be challenging at times, not only because of the many species particularities, but also because volume really matters. Even small animals such as lab and pet rodents or birds require blood tests for various reasons, yet the amount of blood that can be safely taken is limited. Maximum insight from minimum sample volumes is at the core of our solutions.

With more than 50 years' experience in the haematology market, we take veterinary haematology to the next level. No matter whether you are a specialty or research laboratory with low sample numbers or a high-throughput routine lab in need of speed and total automation, our solutions are in line with your requirements – modular, scalable, smart.

Clinical insight

Versatility is no longer a matter of size. The Sysmex veterinary analyser portfolio offers diagnostic and research capabilities previously only available to large laboratories. From merely counting to smearing, staining and observing animal blood cells, we enable the entire workflow of a sample in your laboratory.

With the XN-V Series analytical options, you can offer far-reaching information for clinicians as well as principal investigators and therefore even greater safety, quality and insights. The key is measuring cell activity via fluorescence flow cytometry.

As a standard, each XN-V module determines nucleated red blood cells (NRBC) with every blood count. Additionally, you can individualise your testing by choosing clinical applications as determined by the analysed animal species or disease model, their pathologies or your scientific inquiry at hand. With even the smallest module, there is specialty testing available to find out more on platelets, reticulocytes and body fluids – regardless of throughput, size or time of day.
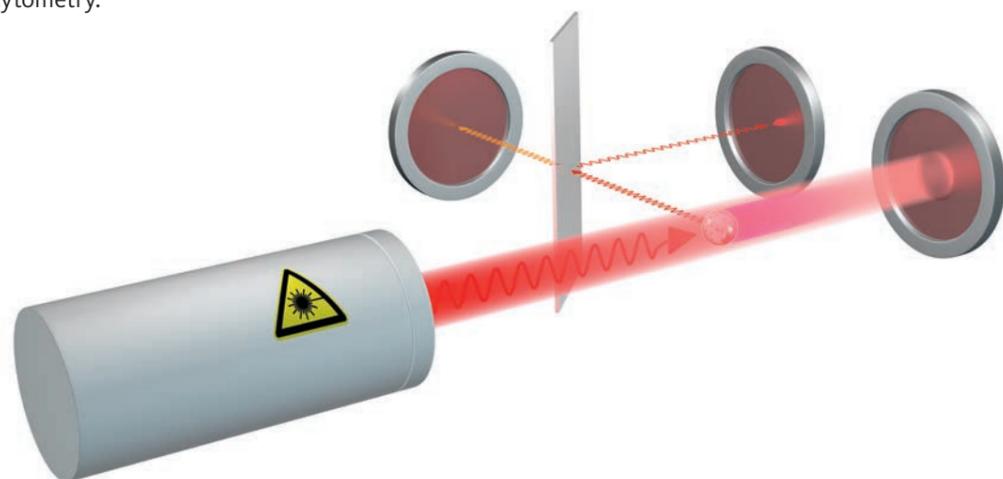
Clinical insight apps

added value XN-CBC
- Complete blood count (CBC) including NRBC% and NRBC#
- Correct white blood cell counts enabled by metrological separation from NRBC

added value XN-DIFF
- 5-part differential (DIFF) in absolute and relative numbers based on species-specific analysis algorithms
- Specific 'Low WBC' mode for critically low cell counts

added value PLT-F
- Monitoring of thrombocytopenia with automatic reflex measurements
- IPF – evaluating the current status of thrombopoiesis
- Tool for CBC analysis in non-mammalian animal species

added value XN-BF
- Simple, fast and standardised body fluid (BF) measurements
- Suitable for cerebrospinal, bronchoalveolar, serous and synovial fluids

added value RET
- Combined information of quantity- and quality-related reticulocyte (RET) parameters providing the whole picture behind anaemia diagnosis
- RET%, RET#, IRF – quantifying mature and immature reticulocytes
- RET-H*e* – evaluating the haemoglobinisation of reticulocytes
- PLT-O – reliable platelet counts with physiologic and/or pathologic conditions of RBC and PLT size overlap

RET, PLT-F and XN-BF are optional apps.

Productivity rethought

Fast processing is usually mission-critical for clinical laboratories with large workloads. However, optimised, time-saving workflows are equally crucial for specialised and research laboratories with fewer samples, not to mention the ever-increasing importance of complete traceability and electronic archiving.

Sysmex veterinary solutions are well-suited to all. We believe reducing manual work in the laboratory space not only drives efficiency, it ultimately leads to more consistent quality of results.

Whether your ideal set-up consists of stand-alone instruments or fully automated cell counting, smearing, staining and digital morphology, Sysmex is your partner for tailoring veterinary blood work to your needs. Should these change in the future, our solutions' modularity and scalability allow you to expand your system at any time, securing your initial investment.

Solutions come in all sizes

The XN-V Series consists of three core models that can handle any workload: XN-1000V, XN-1500V and XN-2000V. Together with the Sysmex Smear Workflow concept for veterinary use, we offer the building blocks to meet your individual needs.

Sysmex XN-V Series

- Fully customisable instrument set-up including species-specific rules for rerun and reflex analyses
- Unique gating functionality to create user-defined analysis gates and new species profiles
- Comprehensive list of parameters from small sample volumes with the XN-V 'Low Aspiration' mode
- Cost-efficient and convenient internal and inter-laboratory QC combined in one run
- Enhanced productivity by automated tube sampling from volumes as small as 250 µL

Enter the captivating world of blood cell morphology

The judgment of an abnormal blood smear is an art. Therefore, a well-made smear is essential for optimal microscopy examination of the blood cell differential.

Nowadays, morphology experts are not alone – powerful tools exist to support them in preventing errors and inconsistencies common with manual blood smear preparation and interpretation. Not only are we convinced that quality counts with each CBC, we are also passionate about the beauty of well-prepared blood smears and the clinical insights that can be discovered from cell morphology.

The new Sysmex Smear Workflow for veterinary laboratories offers a unique concept that optimises the preparation of peripheral blood smears for automated digital morphology. Coupled with our XN-V Series analysers, it seamlessly covers the whole haematology workflow so that you can provide consistent, high-quality results.

Thanks to the capabilities of the Sysmex veterinary analysers, you can now do more for your associated clinicians and researchers by providing them with valuable results and detailed information about the animals' status. This can help in faster diagnosis and more targeted treatment decisions and monitoring. With your contribution, they know more, can decide with confidence and act faster.

Sysmex XN-1500V

The XN-1500V model introduces the new combination of the XN-1000V haematology analyser with an automated slide preparation and staining system in an all-in-one workstation. Should an analysis result lead to a smear, it is performed without manual intervention. The result? Consistent smears with a beautiful cell monolayer enabling further microscopic diagnostics as simply and powerfully as possible.

You can even go a step further by adding a DI-60V digital imaging analyser to your XN-1500V system and truly revolutionise haematology automation in your veterinary laboratory!

Building blocks for specialised and satellite laboratories

CellaVision® HemaPrep

- High-quality blood smears with a portable device
- Variable slide-making speed to control smear length
- Semi-automatic and easy to operate

RAL StainBox with methanol-free reagents

- Staining phases are monitored for standardisation
- Minimal routine maintenance
- Out-of-the-box, methanol-free MCDh reagents
- RFID (radio frequency identification) technology for storing reagent traceability data and standard staining protocols

CellaVision® DC-1 VET digital imaging analyser

- Accelerated turnaround time to clinical diagnosis
- Enhanced quality of results from consistency and standardisation
- Automatically locate, capture and pre-classify white blood cells by means of high-quality images
- Pre-characterise red blood cell morphology and perform platelet estimates
- Smooth workflow and data management in the haematology laboratory
- Connectivity that facilitates remote collaboration and validation of results
- Valuable education tool aided by the reference cell library and side-by-side blood cell images

Building blocks for enhanced automation

Sysmex SP-50 automated slide preparation and staining system

- Latest technology for fully automated, high-quality smears regardless of blood sample consistency
- User-definable settings for sample volume, speed and angle of the spreader blade
- HCT value auto-adapted smear length guarantees wide monolayer area
- Perfect use of RAL Classic staining reagents for May-Grünwald, Giemsa and Wright stains

Sysmex DI-60V veterinary digital imaging analyser

With the DI-60V incorporated in your XN-1500V system, you can run your cell morphology analyses fully automatically, directly after cell counting and blood film preparation – without any manual steps. The digital imaging module DI-60V can be added as an optional component or stand-alone.

- Rapid turnaround time thanks to direct track connection
- Manually prepared slides, e.g. for STAT analysis, can be fed easily into the workflow without interrupting it
- Consistently high-quality analysis leads to improved standardisation
- The DI Remote Review Software licence allows you to review cells from any computer within the network
- Standard applications include peripheral blood and slide scanning for body fluids and bone marrow samples
- Automatic feathered edge scan to look for platelet clumps and parasites
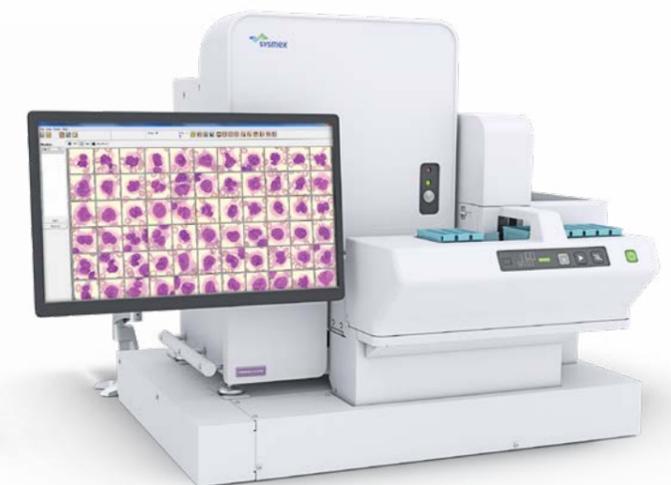
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