YOUR BEST FRIEND

CELLAVISION

Bringing over 20 years of hematology experience into your veterinary lab

Vets now have access to the same unique CellaVision technology as physicians. This brings the same advantages to veterinary medicine that human medicine has enjoyed for many years: an automated and simplified process of performing blood cell differentials.

Work Smarter and Perform Better

CellaVision is the world-leading provider of digital solutions for medical microscopy in the field of hematology. We have made it our business to help hematology laboratories around the world improve and transform the process of performing blood cell differentials.

Since the turn of the millennium, we have pioneered a digital hematology workflow that promotes consistency in performance and reporting, and enables expedient off-site reviews by experts.

Implementation benefits of our technology

Reduce sample processing time for better operational efficiency

Our technology allows you to reduce the review time for blood cell differentials by up to 50%, making it possible to take on a greater volume of samples.
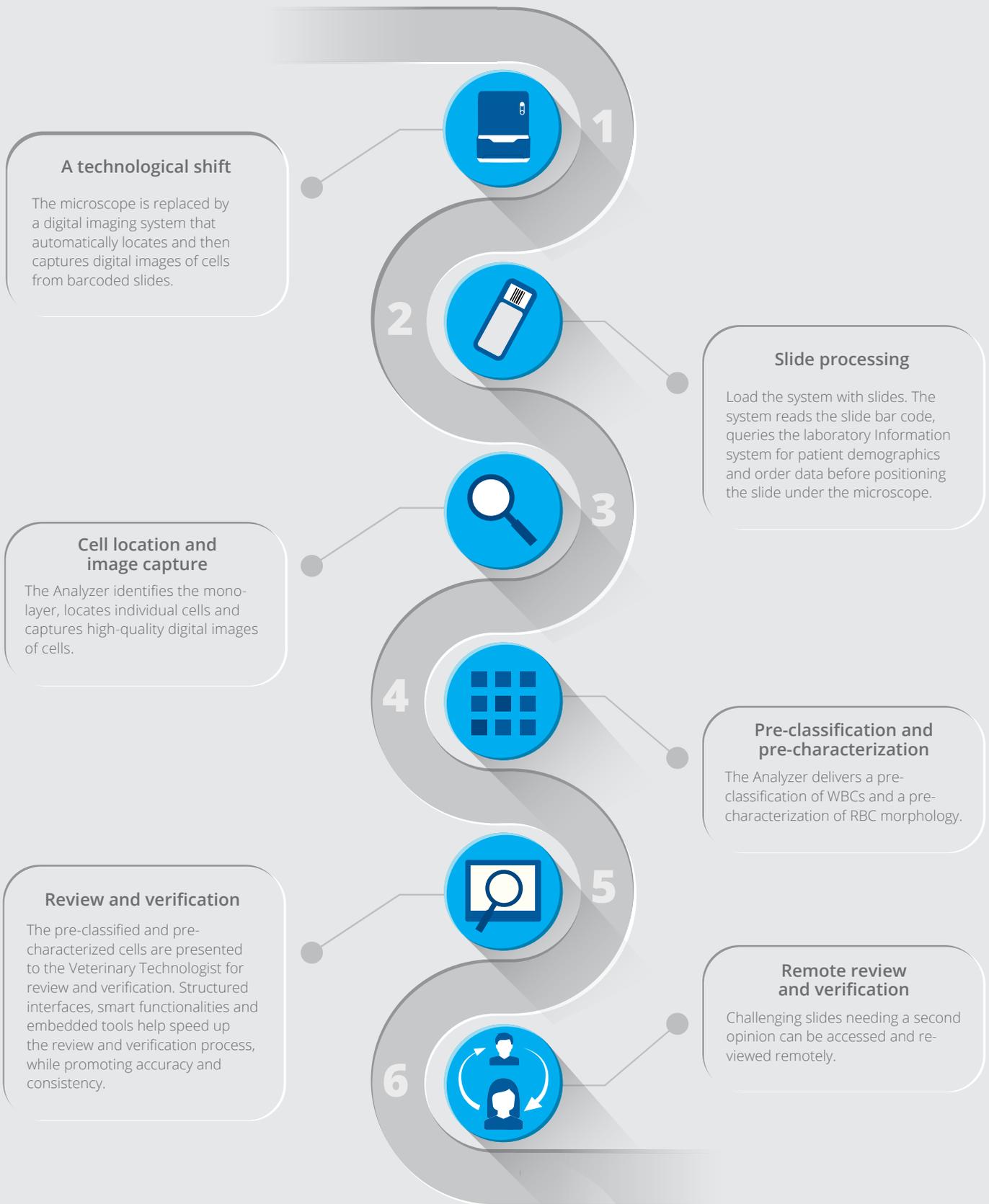
Standardize the review process for more consistent results

Replacing manual microscopy with a more standardized testing process helps you manage quality and ensure results are accurate and reliable.

Sharing of cell images for consultation and collaboration

It becomes easier and quicker for Veterinary Technologists to collaborate within and between lab units. Challenging slides that require a second opinion can be accessed remotely.

OUR WORKFLOW EXPLAINED

1

A technological shift

The microscope is replaced by a digital imaging system that automatically locates and then captures digital images of cells from barcoded slides.

2

Slide processing

Load the system with slides. The system reads the slide bar code, queries the laboratory Information system for patient demographics and order data before positioning the slide under the microscope.

3

Cell location and image capture

The Analyzer identifies the mono-layer, locates individual cells and captures high-quality digital images of cells.

4

Pre-classification and pre-characterization

The Analyzer delivers a pre-classification of WBCs and a pre-characterization of RBC morphology.

5

Review and verification

The pre-classified and pre-characterized cells are presented to the Veterinary Technologist for review and verification. Structured interfaces, smart functionalities and embedded tools help speed up the review and verification process, while promoting accuracy and consistency.

6

Remote review and verification

Challenging slides needing a second opinion can be accessed and re-viewed remotely.

Features specifically designed for Multi-Species

As blood from different species of animals have varying characteristics our analyzer must know what species of animal the sample comes from. It uses different machine learning algorithms depending on the species. Some features are only available for certain species.

CANINE

Pre-classification of WBCs and pre-characterization of RBC morphology in canine blood. These features are available when running canine samples:

- WBC pre-classification
- RBC pre-characterization
- Feathered Edge Scan

FELINE

Pre-classification of WBCs and pre-characterization of RBC morphology in feline blood. When running feline samples, you have access to the same features as for canine samples:

- WBC pre-classification
- RBC pre-characterization
- Feathered Edge Scan

AVIAN

For avian blood, the veterinary software provides a WBC estimate, a unique capability only provided by CellaVision. A feature not possible with a CBC analyzer. Avian samples can exclusively be run on the CellaVision DC-1 hematology analyzer.

- WBC pre-classification
- Manual RBC characterization
- WBC concentration estimate
- Feathered Edge Scan

OTHER

For other mamalian species the analyzer will process the sample as canine. This means it will use the same pre-classification and offer you the same functionalities as for a canine sample.
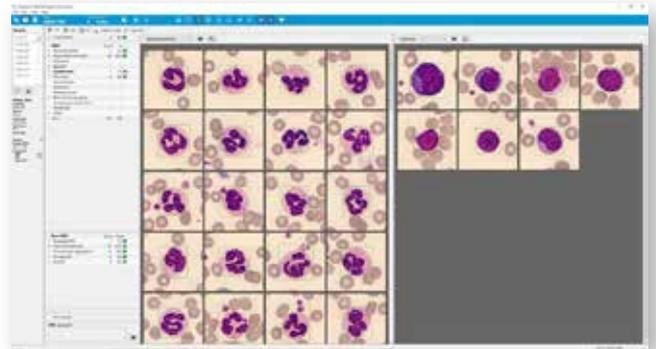
- WBC pre-classification
- RBC pre-characterization
- Feathered Edge Scan

Tools to Improve Efficiency

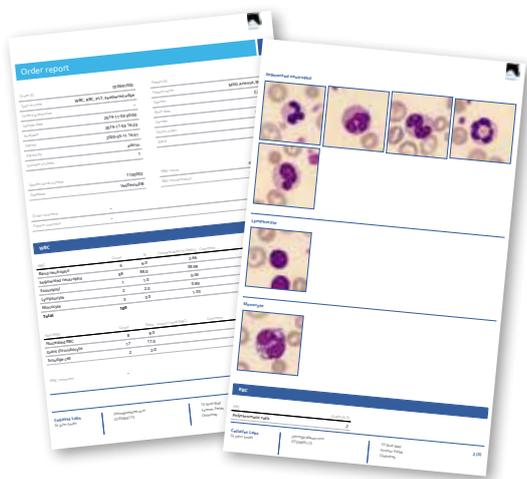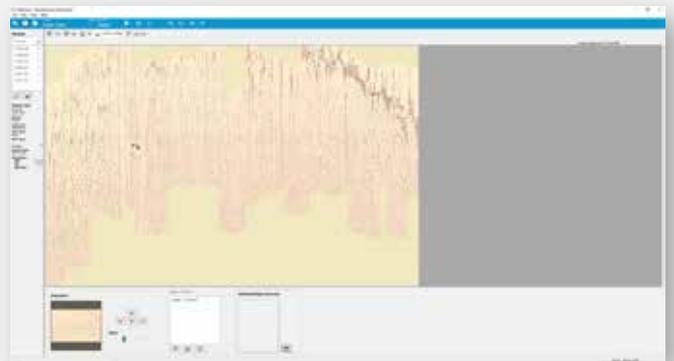## CellaVision® Peripheral Blood Application
WBC Differential + RBC Review + PLT Review

The CellaVision Peripheral Blood Application enables laboratories to automate, standardize and simplify morphological examination of peripheral blood smears. Implemented together with CellaVision analyzers and supporting software CellaVision Peripheral Blood Application speeds up and simplifies the review process while delivering more standardized results.
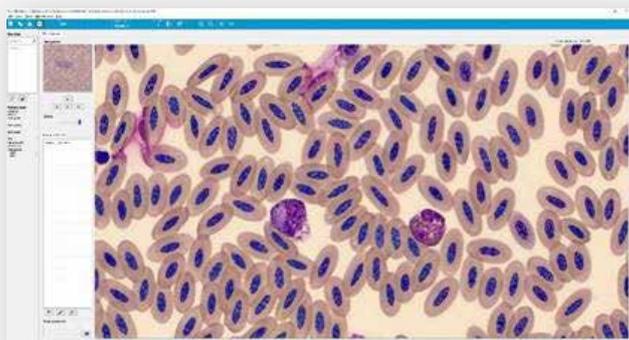

Feathered Edge View

The Vet software comes with functionality for automatically scanning the feathered edge area - An important feature when looking for platelet clumps and parasites. With our software you can capture an overview image of the feathered edge area. From the overview image it is possible to zoom, select and save regions of interest. Those images can be viewed remotely or archived for future reference.

Customized reports with cell images

The Vet application generates order reports that enable clear and accurate communication of results. It is possible to include user selected images of WBCs. It is also possible to customize the reports by adding your organization name, contact information and logo image. The report can be saved as a pdf.

Digital Scanning Tool
Scan / Share multiple sample types

Sometimes you need to step back and see the big picture or zoom in for a closer look. An added benefit of our software is the ability to create high quality digital slides. The slides are scanned, depending on analyzer, in 10x, 50x or 100x and our software allows you to capture the sample or zoom seamlessly in on the exact detail you want to examine.
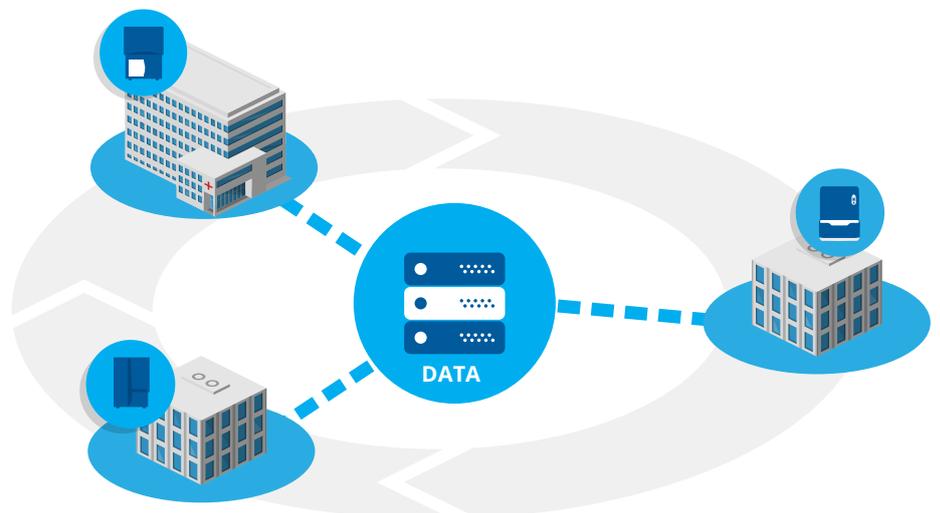
Collect and Connect

The CellaVision Remote Review Software and The CellaVision Server Software

With CellaVision Remote Review and CellaVision Server Software, distances dissolve and isolated laboratories become a network of partners able to collaborate and share everything. Using an existing network, multiple CellaVision analyzers and review sites can utilize a common image database. Cell images and data can be "Collected" at one location and challenging slides "Connected" to expert pathologists at another.

- Access cell images, both current and historical, remotely
- Collaborate within and / or between sites and lab units in real time
- View cell counter results and flags
- Facilitates review and consultation by morphology experts
- Capacity to support and manage data input from up to 70 analyzers and 75 remote reviewers

For Canine and Feline

The CellaVision Peripheral Blood Application automatically pre-classifies WBCs into these classes: Band neutrophils, Segmented neutrophils, Eosinophils, Basophils, Lymphocytes, Monocytes, Other.

The CellaVision Peripheral Blood Application also automatically pre-classifies non-WBCs into these classes: Nucleated RBC, Giant thrombocytes, Thrombocyte aggregations, Smudge cells, Artefacts.

For Avian

The CellaVision Peripheral Blood Application will pre-classify Heterophils, Eosinophils, Basophils, Lymphocytes, and Monocytes.

The CellaVision Peripheral Blood Application also automatically pre-classifies non-WBCs into these classes: Giant thrombocytes, Thrombocyte aggregations, Artefacts.

CellaVision® DC-1 VET

SLIDE HANDLING
- Accepts slides with ground edges, clipped, round or square corners
- Order ID for slides entered either manually or using an optional barcode reader
- Slides are loaded one slide at a time
- Analyzes slides with blood smears

IMMERSION OIL
Manual oil dispensing

QUALITY CONTROL
- Cell location accuracy test for the verification of the hardware and stain quality
- Built-in smear check

STORAGE CAPACITY
- Primary storage: On local hard drive up to 1,500 slides (20 GB)
- Secondary storage: Unlimited when transferred to external storage media

COMMUNICATIONS
- Bi-directional LIS support, ASTM
- Ethernet 100/1000 Mbps
- Multiple CellaVision® DM/DC analyzers can share a database

SYSTEM COMPONENTS
- Slide Scanning Unit with integrated PC and Windows 10 embedded
- CellaVision DM Software

SIZE (W x D x H) and WEIGHT
- 280 x 390 x 370 mm
- 11,0 x 15,4 x 14,6 inches
- 11 kg / 24 lbs

THROUGHPUT*
- Approximately 10 slides per hour for orders containing RBC, PLT, and 100 WBCs
- Approximately 5 slides per hour for complete orders including feathered edge scans

ACCESSORIES
- QC label
- Handheld barcode reader
- CellaVision Immersion Oil
- Hemaprep Blood Smearing Device
- Label Printer kit

CellaVision® DM1200 VET

SLIDE HANDLING
- Requires barcode labeled slides with clipped/round corners
- Slides are loaded into magazines with the capacity of 12 slides
- Analyzes slides with blood smears either batched in dedicated magazines or mixed when interfaced to a LIS

IMMERSION OIL
Automatic dispensing

QUALITY CONTROL
Cell location accuracy test for the verification of the hardware and stain quality

STORAGE CAPACITY
- Primary storage: On local hard drive up to 4,000 slides (20 GB)
- Secondary storage: Unlimited when transferred to external storage media

COMMUNICATIONS
- Bi-directional LIS support, ASTM
- Ethernet 100/1000 Mbps
- Multiple CellaVision® DM/DC analyzers can share a database

SYSTEM COMPONENTS
- Slide Scanning Unit
- CellaVision DM Software
- System Computer with Windows

SIZE (W x D x H) and WEIGHT
- 576 × 450 × 710 mm
- 22.7 × 17.7 × 28.0 inches
- 80 kg / 176 lbs

THROUGHPUT*
- Approximately 22 slides per hour for orders containing RBC, PLT, and 100 WBCs
- Approximately 18 slides per hour for complete orders including feathered edge scans

ACCESSORIES
- CellaVision Immersion Oil Pack
- Barcode labeled slide magazines
- QC barcode labels
- Label printer kit

CellaVision® DM9600 VET

SLIDE HANDLING
- Requires barcode labeled slides with clipped/round corners
- Slides are loaded into magazines with the capacity of 12 slides. Fits eight magazines
- Analyzes slides with blood smears either batched in dedicated magazines or mixed when interfaced to a LIS

IMMERSION OIL
Automatic dispensing

QUALITY CONTROL
Cell location accuracy test for the verification of the hardware and stain quality

STORAGE CAPACITY
- Primary storage: On local hard drive up to 4,000 slides (20 GB)
- Secondary storage: Unlimited when transferred to external storage media

COMMUNICATIONS
- Bi-directional LIS support, ASTM
- Ethernet 100/1000 Mbps
- Multiple CellaVision® DM/DC analyzers can share a database

SYSTEM COMPONENTS
- Slide Scanning Unit
- CellaVision DM Software
- System Computer with Windows

SIZE (W x D x H) and WEIGHT
- 580 × 560 × 790 mm
- 22.8 × 22 × 31,1 inches
- 93 kg / 205 lbs

THROUGHPUT*
- Approximately 30 slides per hour for orders containing RBC, PLT, and 100 WBCs
- Approximately 23 slides per hour for complete orders including feathered edge scans

ACCESSORIES
- CellaVision Immersion Oil Pack
- Barcode labeled slide magazines
- QC barcode labels
- Label printer kit

OPTIONAL SOFTWARE / APPLICATIONS FOR ALL ANALYZERS

CellaVision® Remote Review Software, CellaVision® Server Software, CellaVision® Profiency Software, CellaVision® Dashboard

---

* Processing time may vary depending on smear quality, WBC concentration and number of non-WBCs. Specifications are subject to change without notice. This product may not be available in all markets.

We help veterinary labs work smarter and perform better

We offer a range of analyzers and solutions depending on the workflow, sample volume and size of your lab. Our analyzers can be used both as stand-alone or as a part of a network solution.

CELLAVISION