

Automated Digital Cell Imaging by CellaVision

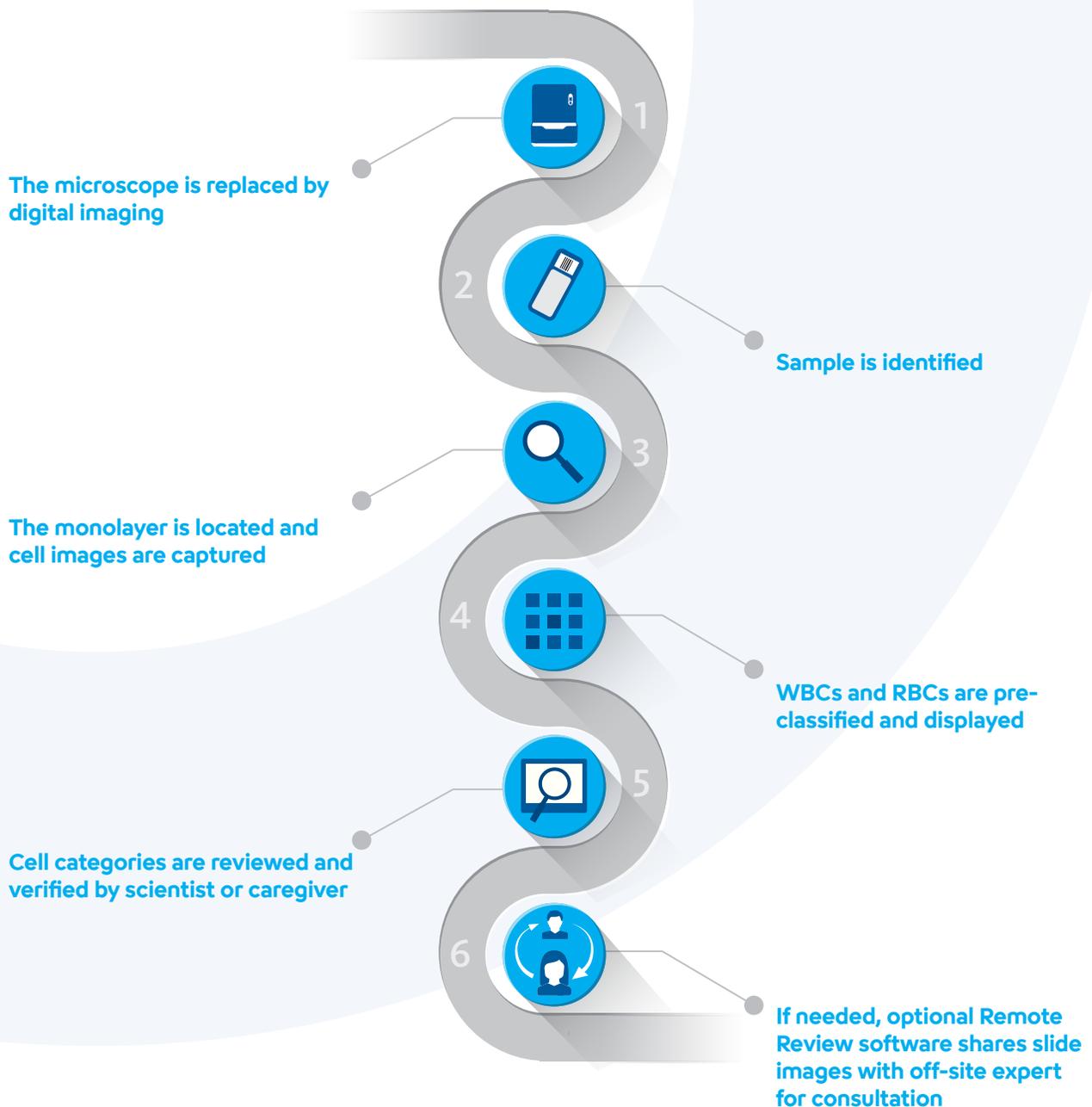
Peripheral blood smear efficiency, standardization and proficiency



Smear reviews simplified.

The process of preparing and analyzing peripheral blood smears (PBS) represents a real challenge for many laboratories, especially in an environment of staffing challenges and loss of expertise from a shrinking workforce. High-quality peripheral blood smears and standardized reporting can help provide invaluable information for diagnosis and treatment of patients in the healthcare system.

Automated digital cell imaging products from Sysmex and CellaVision are innovatively designed to standardize the WBC differential process for laboratories of all sizes. Our solutions integrate pre-classification of WBC, RBC and platelet morphology with the option to collaborate in real time across your lab network, improving processes and resource utilization.



Technology that works for labs.

Digital imaging solutions by CellaVision analyze and evaluate blood smears to simplify and standardize WBC differential testing. Automatic cell location and pre-classification streamline the process of performing differentials and improve workflow.

Regardless of which solution fits best in your lab, you will enjoy increased efficiency with these standard features:

- Pre-classification of white blood cells to include 12 categories of WBCs and 5 non-WBC categories.
- Customizable on-board reference libraries for training and proficiency of your staff.

Pre-classification of red blood cell morphology into 6 categories including:

- Pre-selected 100x high power fields and calculation table for manual platelet slide estimates.
- Add pre-coded or free-text comments to any slide, cell category or individual cell image.
- Archive or export cell images for educational use or to track an individual patient's cell morphology results throughout treatment.
- Feathered edge view to assess samples for acceptable cell distribution, platelet clumps or WBC clustering at edges of smear. View images in the Feathered Edge tab at 10x or zoom in for a closer look.

Pre-classified WBCs

- Segmented neutrophils
- Non-segmented neutrophils
- Eosinophils
- Basophils
- Lymphocytes
- Monocytes
- Blasts
- Promyelocytes
- Myelocytes
- Metamyelocytes
- Variant lymphs
- Plasma cells
- Smudge cells
- Artifact
- Giant platelets
- Platelet clumps
- NRBCs
- Unidentified

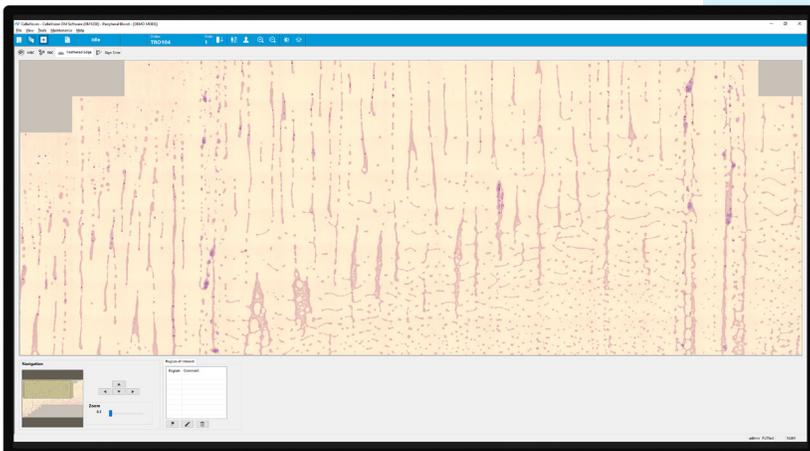
Pre-Characterized RBC Morphology

Standard

- Anisocytosis
- Microcytosis
- Macrocytosis
- Polychromasia
- Hypochromasia
- Poikilocytosis

With ARBC application

- Target cells
- Schistocytes
- Helmet cells
- Sickle cells
- Spherocytes
- Elliptocytes
- Ovalocytes
- Tear drop cells
- Stomatocytes
- Acanthocytes
- Echinocytes
- Howell-Jolly bodies
- Pappenheimer bodies
- Basophilic stippling
- Parasites



Feathered Edge viewing tab

Benefits for your staff and patients.

Automating the smear review process with digital imaging solutions can improve workflow, quality and employee satisfaction.



EFFICIENCY – Automatic cell location and pre-classification, along with unique cell views, reduce the time spent performing differentials, training new techs and monitoring proficiency.



PROFICIENCY – CellaVision digital imaging products help all technologists perform differentials at the same high level of consistency. The system provides traceability of results at the individual cell level.



CONNECTIVITY – Multiple Remote Review stations enable supervisory review, inter/intra-lab comparison and the opportunity for real-time collaboration with pathologists and morphology experts.



COLLABORATION – Integrating the optional Remote Review software will allow real-time slide consultation by off-site clinicians, pathologists or morphology experts.

Digital Imaging Analyzers



CellaVision DC-1

DC-1 is a revolutionary hematology analyzer that is custom-designed to optimize the WBC differential process in low-volume labs. Standardized classification criteria help minimize the subjectivity of PBS assessment, providing more reliable information for making patient care decisions.



DIFF-Line™ with DC-1

The DIFF-Line by CellaVision allows labs to smear with safety, stain with consistency and analyze with confidence. The RAL® SmearBox provides high-quality peripheral blood smears with automated, closed-vial technology to reduce sample exposure. The RAL® StainBox uses methanol-free, pre-mixed stains with extended on-board stability for efficient and economical staining. Add the DC-1 for start-to-finish peripheral blood smear processing that helps your low-volume lab be highly efficient.



Sysmex DI-60™

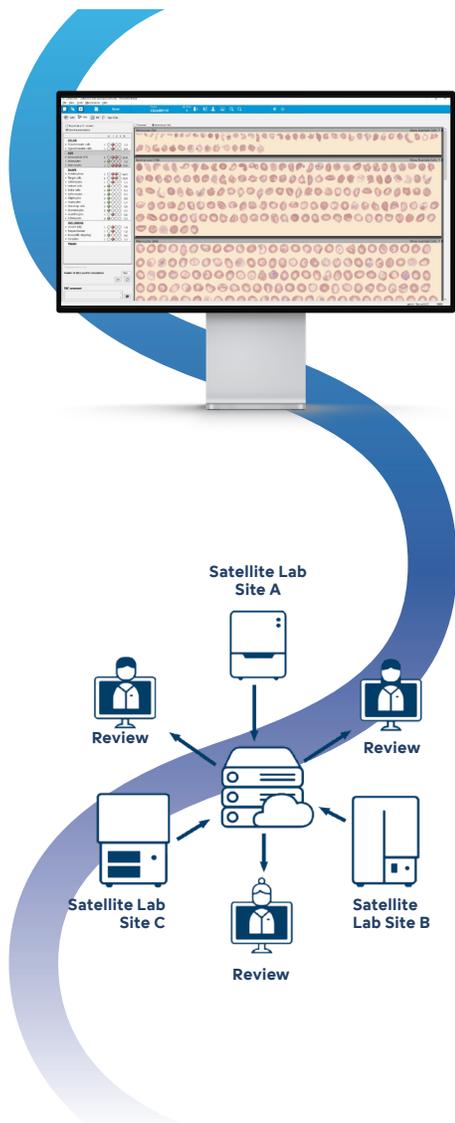
With the DI-60, you can integrate CBC analysis, slide preparation, slide staining and digital imaging in a complete workcell by integrating directly with a Sysmex XN-3100™ or XN-9100™ Automated Hematology Analyzer. Streamlining routine, time-consuming hematology procedures allows your highly-skilled medical laboratory scientists to spend more time on the difficult cases that require their expertise.



CellaVision DM9600 & DM1200

Moderate-volume laboratories can benefit from the advanced technology and flexibility of the DI-60 analyzer without direct connection to an automated slidemaker. Up to twelve (DM1200) or ninety-six (DM9600) slides can be loaded at once to provide automated PBS analysis with high-quality cell images that streamline workflow at your hematology bench.

Optional Software & Applications



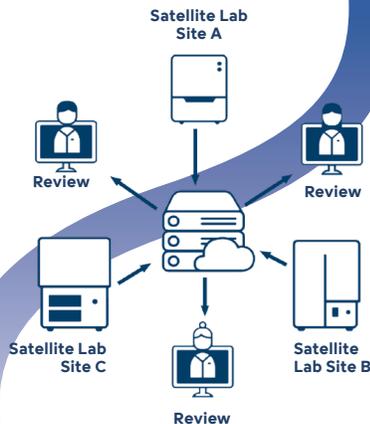
Advanced RBC Application*

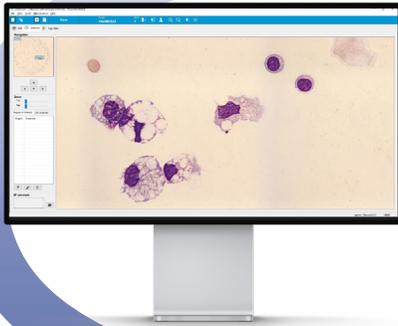
The CellaVision Advanced RBC (ARBC) Application is optional software to complement the standard peripheral blood program. ARBC helps to speed up and simplify the review process by delivering pre-characterization of an additional fifteen RBC morphologies. Additionally, the ARBC application provides multiple viewing options to enable single cell filtering and unique cell grouping.

**Software not available on all products*

Remote Review and Server Software

Remote Review software makes it possible to review, adjust and verify cell differentials from anywhere at any time. With licensing packages allowing up to 75 concurrent users, Remote Review software provides faster turnaround times for difficult samples or smears that require review by an off-site expert. Addition of the Server Software supports flexible workload distribution through a centralized and scalable IT architecture that's easy to set up and manage.





Body Fluid Application*

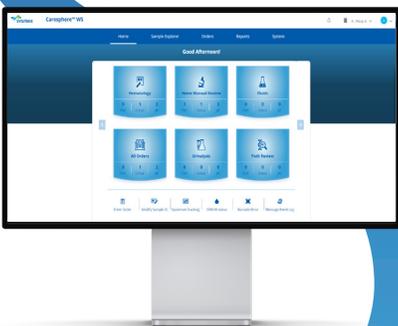
Digitize the entire cell button on cytocentrifuged slides with the CellaVision Body Fluid Application. This optional software program pre-classifies cells using innovative AI technology for review and verification by a laboratory scientist, or allows you to export cell images for consultation by body fluid morphologists. Users can also add additional cell classes for manual reclassification.

**Software not available on all products*



Proficiency Software

Designed to help lab managers assess, monitor and promote staff competency, the web-based Proficiency software uses images from the CellaVision library or a lab's own digital database. The examiner will be provided with a user's performance report which highlights areas for future development or training. The Proficiency Software helps facilitate efforts to deliver more accurate and standardized results



Caresphere™ Workflow Solution

Caresphere (WS) is laboratory software designed to assist in automating decision-making tasks. Built-in and customizable slide rules automate differential processes making the entire hematology bench more streamlined and easier to manage.

Comparison Grid



| Feature | Description | DI-60 | DC-1 | DM9600 | DM1200 |
|--|---|---|-----------------------------|-------------------------------------|-------------------------------------|
| Throughput | Values provided are approximate due to WBC count, presence of non-WBCs and quality of smear | Up to 30 slides/hour | Up to 10 slides/hour | Up to 30 slides/hour | Up to 20 slides/hour |
| Side Loading | | Continuous feed from connected SP-Series™ | Single slide manual loading | Magazine loading; 96 slide capacity | Magazine loading; 12 slide capacity |
| WBC Pre-Classification | 12 pre-classified WBC categories + 5 non-WBC categories | ● | ● | ● | ● |
| RBC Morphology | 6 pre-characterization categories | ● | ● | ● | ● |
| Feathered Edge View | | ● | ● | ● | ● |
| Advanced RBC Application (ARBC) | 15 additional RBC categories for morphology reporting | Optional | | Optional | Optional |
| Body Fluid Application | 8 pre-classified categories | Optional | | Optional | Optional |
| Server Software | Centralizes smears for multi-laboratory systems | Optional | Optional | Optional | Optional |
| Remote Review Software | Licenses for up to 75 concurrent users | Optional | Optional | Optional | Optional |
| Dimensions | W x D x H (inches) | 23 x 19 x 28 | 11 x 15 x 15 | 23 x 22 x 31 | 23 x 18 x 28 |
| | Weight | 186 | 24 | 205 | 176 |

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