

Digital Cell Morphology by CellaVision

CellaVision® Peripheral Blood Application



The CellaVision Peripheral Blood Application enables laboratories to automate, standardize and simplify morphological examination of peripheral blood smears. The application supports:

- WBC Differential;
by delivering a comprehensive pre-classification into 17 cell types
- RBC Review;
by delivering a pre-characterization based on 6 morphological characteristics
- Platelet Review;
by offering functionality for platelet estimation

When implemented together with CellaVision analyzers and supporting software, the CellaVision Peripheral Blood Application speeds up and simplifies the review process while delivering **more standardized** results.

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How does it work?

- The software extracts cell features from digital images and delivers a pre-classification/pre-characterization of cells using innovative Artificial Neural Network technology
- The pre-classification/pre-characterization is then reviewed and verified by a Medical Technologist

Why CellaVision Peripheral Blood Application?

CellaVision Peripheral Blood Application takes the “manual” out of the manual differential:

- Automated pre-classification/pre-characterization speeds up the review process
- Standardized operational procedure and validation process promotes consistency
- Innovative functionalities and integrated tools promote analysis accuracy

Features:

- View cell classes side-by-side, or all cells in a full screen view
- Adjust magnification of cell images
- Compare cells with reference cell images from a built-in reference library
- Tag or add comments to any slide, cell class, or specific cell
- Share slides and cell images with colleagues for collaboration and consultation
- Export and email cell images for consultation, validation or presentation
- When re-classification is needed, cells are easily dragged and dropped into the appropriate cell category
- Archive cell images as part of the patient’s image / medical history

FOR A MORE DETAILED PRESENTATION, PLEASE VISIT WWW.CELLAVISION.COM/PRODUCTS

TECHNICAL SPECIFICATIONS:

SLIDE PREPARATION METHODS (WEDGED)

- Automated slide maker and stainers
- HemaPrep®/MiniPrep® automated blood smearing device
- Manual smears

STAINS

- Romanowsky stains (May Grünwald Giemsa, Wright Giemsa, Wright)

RESULT PARAMETERS

- WBC pre-classification: Segmented and Band Neutrophils, Eosinophils, Basophils, Lymphocytes,

Monocytes, Blast Cells, Promyelocytes, Myelocytes, Metamyelocytes, Variant Lymphocytes, Plasma Cells and Unidentified

- Non WBC pre-classification: Smudge, Artefacts, Giant Platelets, Platelet Clumps, Erythroblasts (NRBC)
- RBC pre-characterization: Automated pre-characterization of aniso-, micro- and macrocytosis, polychromasia, hypochromasia and poikilocytosis is performed in an overview image corresponding to eight high power fields (100x)

- PLT estimate: The graphical user interface allows manual estimation of the PLT concentration, corresponding to eight high power fields (100x)
- User has the ability to add additional cell categories for manual re-classification

ANALYZERS

- CellaVision® DM96
- CellaVision® DM1200
- CellaVision® DM9600