



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.

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

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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
- CellaVision® DC-1

Specifications are subject to change without notice. This product may not be available in all markets.