

Sysmex DI-60™

Integrated Cell Image Analysis System



Brief Product Description

The Sysmex DI-60 Integrated Cell Image Analyzer provides complete automation of your manual WBC differential process by connecting to your XN-Series™ Automation System. With the DI-60, you can integrate CBC analysis, slide preparation, slide staining and digital image pre-classification of cells in a complete workcell. Now you can free highly skilled medical technologists to spend more time on the difficult cases that require careful analysis and assessment. Automated Cell Image Analysis provides a more standardized differential result and extensive network connectivity to enhance the level of service your laboratory provides clinicians and patients.

Principles and Technology

The analyzer automatically moves a prepared hematology slide under the microscope. The analyzer looks for a monolayer in the smear and once found scans the monolayer in a battlement pattern. While doing this, the analyzer locates WBCs and RBCs and stores high quality images of each located cell. The analyzer pre-classifies each located WBC and pre-characterization of red blood cell morphology for operator review.

Parameters

WBC Classification

The CellaVision Peripheral Blood Application automatically pre-classifies WBCs into these classes:

- Band neutrophils
- Segmented neutrophils
- Basophils
- Eosinophils
- Lymphocytes
- Monocytes
- Promyelocytes
- Myelocytes
- Metamyelocytes
- Blast cells
- Lymphocytes variant forms
- Plasma cells

The CellaVision Peripheral Blood Application also automatically pre-classifies non-WBCs into these classes:

- Nucleated RBC
- Giant thrombocytes
- Thrombocyte aggregations
- Smudge cells
- Artefacts
- Not Classed
- Other

The operator can manually re-classify cells and other objects to any of the above mentioned classes and also to any of the 15 user-defined cell classes.

RBC Morphology

The CellaVision Peripheral Blood Application pre-characterizes the RBC morphology by shape, color and size and suggests preliminary grading for these morphological characteristics:

- Polychromatic cells
- Hypochromatic cells
- Anisocytosis
- Microcytes
- Macrocytes
- Poikilocytosis

Parameters	<p>The operator can change the suggested grading for the above mentioned characteristics and can also manually specify grading for these morphological characteristics:</p> <ul style="list-style-type: none"> • Target cells • Schistocytes • Helmet cells • Sickle cells • Spherocytes • Elliptocytes • Ovalocytes • Teardrop cells • Stomatocytes • Acanthocytes • Echinocytes • Howell-Jolly bodies • Pappenheimer bodies • Basophilic stippling • Parasites • Up to 10 user-defined characteristics
Throughput	<p>Peripheral Blood - Up to 30 slides/hour*</p> <p>*Depending on WBC concentration, number of non-WBCs and the quality of the smear.</p> <p>*Values provided are approximate due to WBC concentration, number of non-WBCs and quality of the smear.</p>
Quality Control	<p>One freshly stained slide from a blood sample with a WBC count within the normal range to perform a daily cell location test.</p>
Dimensions and Weight	<p>22.7" (W) X 19.3" (D) X 28" (H); 186 LBS</p>
Supported Optional Software	<p>CellaVision Advanced RBC Application, CellaVision Body Fluid Application, CellaVision Server Software, Remote Review Software, Proficiency Software</p>

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