Consistency in every slide

with **DIFF-Line™**

Empowering your laboratory to prepare and analyze peripheral blood smears with consistency and control.

CELLAVISION

DIFF-Line™ by CellaVision

The big idea behind our DIFF-Line solution is simple. We want to offer small labs a range of mutually supportive devices that establish a simple and semi-automated process for preparing and analyzing peripheral blood smears. A complete, safe and easy to manage workflow underpinned by affordable and reliable devices, a DIFF-Line.

AN IMPORTANT BUT DEMANDING LABORATORY PROCEDURE

The process of preparing and analyzing blood smears represents a real challenge for many laboratories. Perhaps more so in smaller labs where the entire process is performed manually by generalists rather than specialist technicians.

If managed well, skilled examination of well-made and well-stained peripheral blood smears can provide invaluable information about a patient's health. Equally, quality issues at any point in the process can have serious implications on healthcare delivery and patient safety.

For the past 20 years, CellaVision has helped large hematology laboratories modernize and improve the process of performing blood cell differentials. Now, we want to offer the same help to smaller laboratories.

1

Smear the slide

The RAL SmearBox enables you to make high-quality peripheral blood smears with minimal effort and complete control.

2

Stain the slide

The RAL StainBox ensures that all your smears are stained consistently and in accordance with your lab's guidelines.

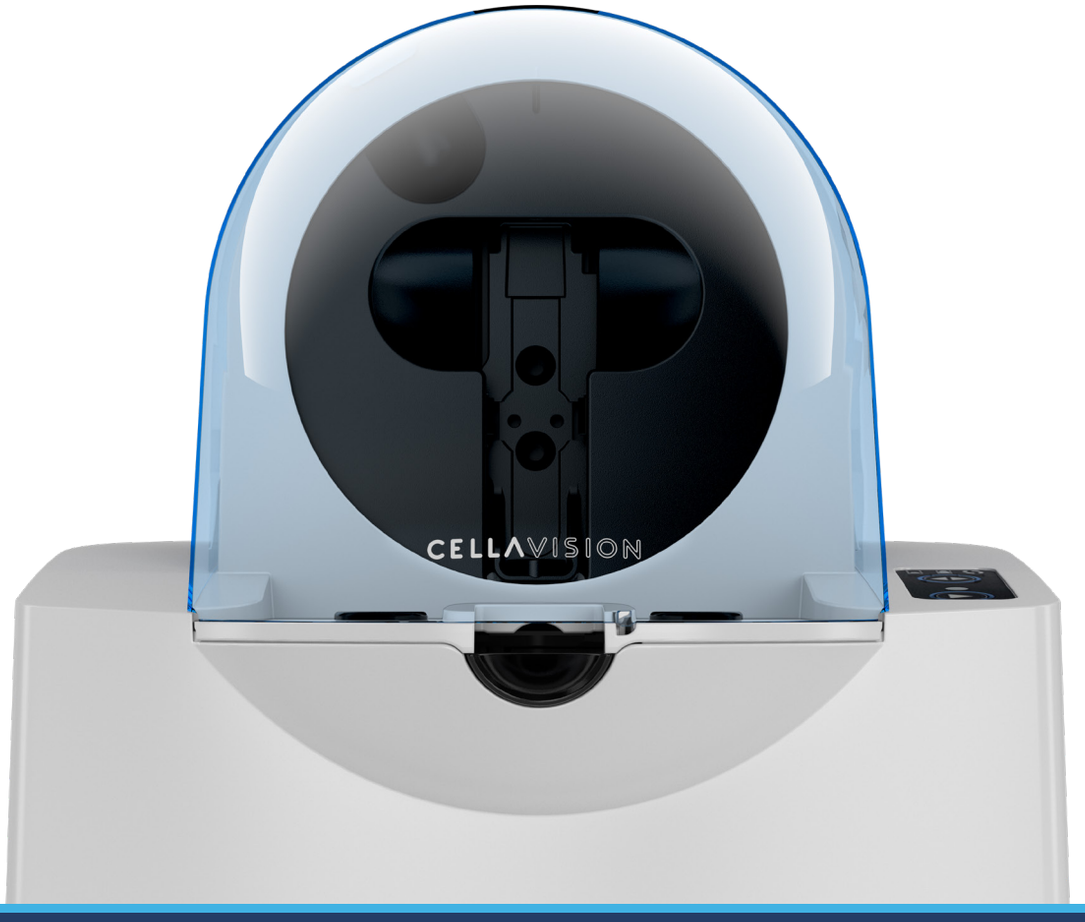
3

Analyze the slide

The CellaVision DC-1 automates and simplifies your process for analyzing peripheral blood smears using the same digital methodology commonly used at larger laboratories.

Smear with consistency

The RAL SmearBox enables you to make high-quality peripheral blood smears with minimal effort and complete control. The automated instrument uses a patented consumable to produce smears directly from a closed whole sample tube.



PROMOTES **QUALITY**
The automated and controlled process helps you produce smears with a consistent high quality and according to laboratory guidelines.

PROMOTES **EFFICIENCY**
By eliminating time consuming manual handling of tubes and blood, the system creates a more efficient smearing process. Simple and intuitive to use, technicians with little or no hands-on experience of making smears can operate it with ease.

IMPROVES **SAFETY**
Thanks to the closed-vial smearing methodology, and automated waste disposal, the system effectively reduces exposure to biohazards.

ENSURES **COMPATIBILITY**
The instrument is calibrated to produce smears that are ideally suited for analysis using CellaVision systems.

1 Open cover and insert the slide spreader.

Insert the slide. 2

3 Open the cover and load the sample tube.

Close the cover and push start to begin smearing. 4

5 Open the cover and remove the sample tube.

Retrieve the slide and set aside to dry. 6

7 The slide is now ready for staining.

Stain with consistency

The RAL StainBox ensures that your smears are stained consistently and in accordance with laboratory guidelines. The semi-automated instrument utilizes the bath method and effectively guides the technician through a step-by-step staining process. The instrument uses an innovative staining kit that is methanol-free and ready-to-use.

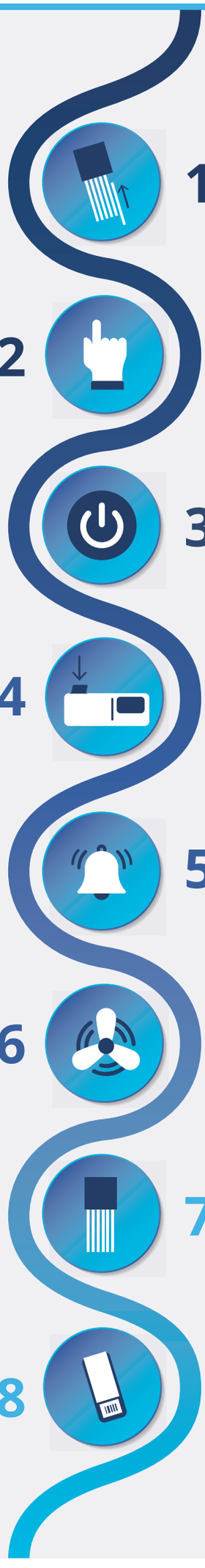
PROMOTES **QUALITY**
The semi-automated process effectively guides you through step-by-step staining with consistency and control. The pairing with high quality reagents and a validated staining protocol promises a quality stained smear every time.

IMPROVES **TRACEABILITY**
Information and data connected to reagents and their use are easily extracted from the instrument via the USB port.

IMPROVES **SAFETY**
Uniquely, the supporting stain kit is methanol-free and supplied ready-to-use in containers that are loaded directly into the instrument. As such, there is no risk from toxic exposure to methanol or need to dilute or mix reagents.

ENSURES **COMPATIBILITY**
The instrument and associated reagents were developed to deliver stained slides that meet the requirements of CellaVision systems.

The workflow



1 Load the slides into the slide holder.

2 Select staining protocol and enter the number of slides.

3 Push start to begin staining.

4 Insert the slide holder into the first chamber and close the lid.

5 The instrument notifies the user when to move the slide holder to the next chamber. The appropriate lids open automatically.

6 The last chamber has an integrated fan for drying. When the slides are dry, the chamber will open automatically.

7 Retrieve the slide holder.

8 The slides are now ready for analysis.

Analyze with consistency

The CellaVision DC-1 analyzer automates and digitizes the process of analyzing peripheral blood smears. The analyzer consists of an automated microscope, a high-quality digital camera and an advanced computer system that uses artificial intelligence to locate, digitally capture and preclassify cells from stained blood smears. The preclassified cells are presented to the technologists on a computer screen for easy review and verification.

IMPROVES **EFFICIENCY**
When performing cell differentials using manual microscopy, there are several subprocesses that take up valuable time. The CellaVision DC-1 reduces turnaround time by automatic location, capture, preclassification and presentation of cells for review on-screen.

PROMOTES **QUALITY**
The analyzer establishes a more standardized process that allows small labs to perform consistent and accurate differentials. The preclassification of cells provides valuable support for decision making.

PROMOTES **PROFICIENCY**
The CellaVision methodology promotes competency by presenting cells side by side, in complete groups, and reference cell images. CellaVision enables a collaborative environment where staff learn from more experienced colleagues, supervisors and pathologists.

IMPROVES **CONNECTIVITY**
By implementing the CellaVision digital methodology, small labs can collaborate with offsite colleagues, supervisors and morphology experts. Challenging slides needing a second opinion are reviewed by a pathologist in seconds.

The workflow

1. Place the slide in the loading tray and scan, or manually input, the order ID.

2. Apply immersion oil on the slide.

3. Close the hatch and click start to begin analysis.

4. During processing, the analyzer identifies the monolayer, locates cells, and captures high-quality images of cells.

5. State-of-the-art image analysis delivers a preclassification of WBCs and a precharacterization of RBC morphology for review and verification on a computer screen.

6. The technologist can review the analyzed slide using a variety of views.

7. If reclassification is needed, cells can be dragged and dropped into a different cell category.

8. When the review is complete, the technologist signs the slide and the results can now be sent to the ordering physician.

A new perspective on **blood cell morphology**

The preclassified and precharacterized cells are presented to the medical technologist in a user friendly interface that offers a range of different views and functionalities. It provides a structured overview of all the captured cells as well as a standardized decision support framework.

Compared to manual microscopy it not only saves time but more importantly allows the technologist to focus on what really matters – the detection of abnormal cells.

Examples of software views and functionalities:

- Review all WBCs preclassified into categories
- Compare and contrast cell categories side by side
- Adjust magnification of cell images for a closer look
- Review cells next to reference cell images
- Tag or add comments to any slide, class or cell
- Archive cell images as part of the patient's history

We help hematology labs **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 cell differentials.

Establish a standardized workflow with

DIFF-Line by CellaVision

CELLAVISION

GLOBAL HQ

CellaVision AB
Mobilvägen 12
223 62 Lund
Sweden

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