



 **Scopio**

The AI-Powered X100 With
Full Field Peripheral Blood
Smear (PBS) Application

FDA cleared. CE certified

Focus on the small details, without losing the big picture

Scopio's breakthrough Full Field Morphology (FFM) technology provides a full field scan of the monolayer and the feathered edge with cell images at 100X oil immersion resolution.

While other digital microscopy solutions offer single-cell snapshots of the physical slide, with Scopio's AI-powered Full Field PBS application you get the full context of the entire slide, in high resolution, without sacrificing the size of the field of view and without the need to ever leave the computer screen.

Scopio's FFM PBS application is a powerful combination of built-in AI with smart digital microscopy that streamlines workflows, increases consistency, and accelerates diagnoses.

The smart lab partner for smart hematology

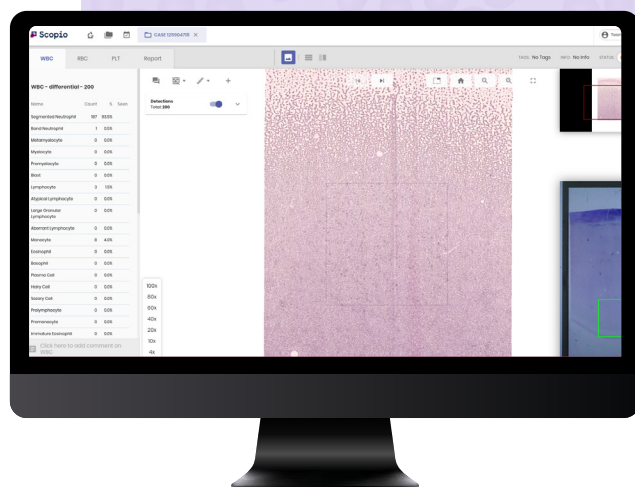
Scopio's revolutionary AI-powered Decision Support System paves the way for change with adaptive monolayer identification in support of both long and short smears.

There is a plethora of reasons why hematology labs should not continue to rely on semi-digital tools for in-depth diagnosis: with single-cell snapshots you lose slide context, or a fixed area for analysis may be suboptimal, or more importantly, areas of clinical interest such as the feathered edge is not included.

With cutting-edge AI decision support capabilities, medical technologists can now work smarter for more consistent and quality diagnoses, and reduced turnaround times.

This is the digital future of smart hematology.

Now that you get the full context of the entire slide, FFM PBS eliminates the need to default back to the manual microscope.

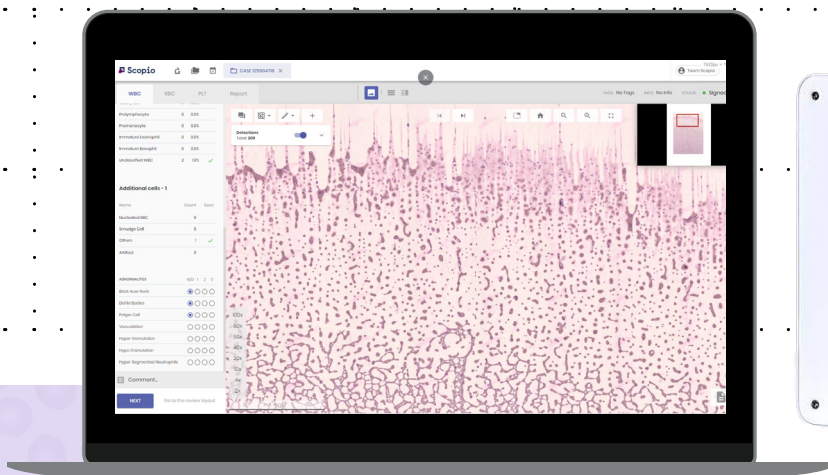


Scopio's Full Field PBS application assists in conducting a WBC differential with automated 200 WBC pre-classification, platelet location and pre-estimation, and RBC morphology evaluation from hundreds of Fields of View (FOVs).

Remote access anytime, in any location

With Scpio's remote solution, hematopathologists have easy access to the full field view of the monolayer and feathered edge as well as the results of the PBS analysis and pre-classification, from any location, through the hospital's secured network.

Collaboration is seamless and without borders.



Finally, a digital microscope that captures whole slide images in 100X high resolution without sacrificing the size of the field of view using affordable HW. This is smart digital microscopy that has not been available in the lab until now.

With the FFM PBS application for remote analysis and diagnosis, you can be secure in the knowledge that your diagnosis is just as good as being in the lab.



Propelling microscopy into the digital era

Scpio's digital microscopy solution uses complex algorithms to automate the imaging of full microscopy samples into high-resolution X100 oil immersion digital scans.

**It's called computational photography.
And the results are unprecedented.**

[See here Full Field PBS Scan](#)

How it works

1 Sample prep

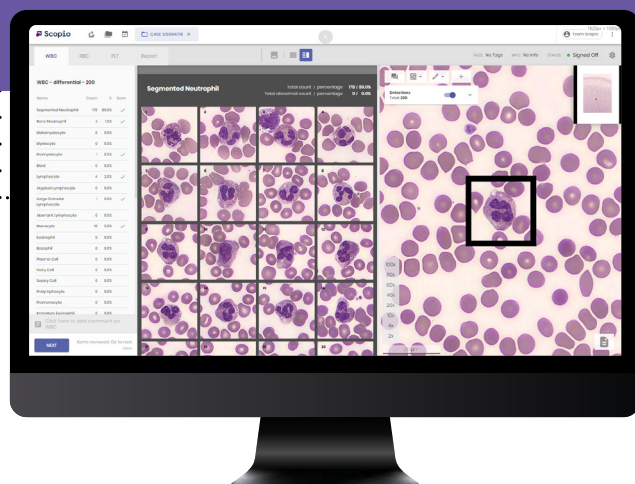
Prepare your fixed and stained PBS sample following your regular laboratory protocols (supports all Romanowsky stains)

3 Scan

- Adaptive Monolayer Detection supporting long and short smears
- Monolayer and the feathered edge included

5 Review

- General impression of the entire scan
- Accept or reclassify the WBC
- Assess RBC
- Review and approve platelet estimation



2 Slide processing

Insert barcoded slides into X100, up to 3 slides at a time

4 Decision Support System

- Pre-classification and pre-estimation of cell differential
- 200 WBC pre-classified into 16 classes
- Automated platelet pre-estimation

6 Report

Create and sign a quantifiable ICSH compliant report and add cell images as desired.

Reshaping the science of cell morphology

Device

- 15 slides/h

- 3-slide tray

- FDA cleared.
CE certified.

- True remote capability

AI

- Imaging of monolayer + feathered edge @ 100x oil immersion

- 200 WBC pre-classification to 16 classes

- Platelet pre-estimation

- Adaptive area of analysis (monolayer detection), optimized for long and short smears

- RBC morphology evaluation from hundreds of fields of view

Future Developments

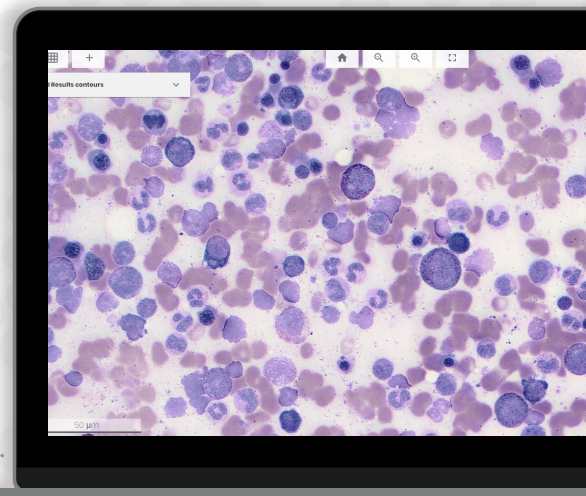
With a robust product development pipeline, and the ability to detect morphological events from thousands of cells on a cellular and subcellular scale, Scpio opens the door for morphology-based diagnostics, disease monitoring and treatment adjustment for various blood diseases and conditions.

Full Field Bone Marrow Aspirate (FFM-BMA)

Application enabling the first laboratory digital and standardized morphological evaluation is under clinical studies. (commercial launch expected 2021).

X100 HT (High Throughput)

Supports a 30-slide loader
(commercial launch expected in H2 2021).





About Scopio Labs

Scopio Labs is dedicated to unlocking the diagnostic power of imaging and AI, by introducing Cell Morphology at scale.



Technical Specifications Scpio X100

Slide Throughput

- 15 Slides/h for 200 WBC differential
- 3-slide tray

Artificial Intelligence & Scan Features

- 200 WBC pre-classified into 16 classes
- Platelet pre-estimation
- Approximately 1000 high power fields of view available for monolayer and RBC evaluation

Slide Properties

- Accepts standard slides
- Round / square corners
- Ground / clipped edges

Slide Preparation Method

- Manual
- Semi / Fully Automated

Stains

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

Stain Quality Control

- Daily routine automated check-up

System Size (W X D X H)

- 32 x 36 x 38 cm
- 12.5 x 14 x 15 inches

Processing Unit Size

- 19 x 42 x 52 cm
- 7.5 x 16.5 x 20.5 inches

System Weight

- 13 Kg / 28.7 lbs

Electrical Specifications

- Power supply supports 100-240 VAC, 50-60Hz

Storage Capacity

- Up to 2000 scans and 20K reports
- Scpio's External Storage Service - unlimited

Lab Communications

- LIS support on request