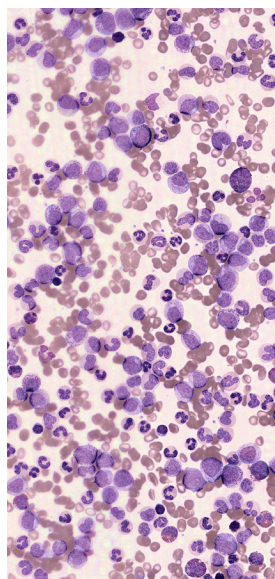




Full-Field Peripheral Blood Smear Application

See more. Do more.
Diagnose faster.



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Full-Field Imaging

A full-field digital view of the sample, including the monolayer and the feathered edge, eliminates the need to default back to the manual microscope.

While manual microscopy at 100X has been the gold-standard for the PBS review requiring a lab technician to manually and laboriously count and classify 100-200 cells, digitalization and automation efforts to transform this manual industry have been limited by the trade off between resolution and field of view.

The Full-Field Peripheral Blood Smear (FF-PBS) Application on the X100 platform is an end to end digital morphology solution that completely supplants the manual microscope by combining breakthrough full-field imaging of blood samples and an AI-powered Decision Support System (DSS) that empowers lab professionals to conduct WBC differentials, RBC morphology evaluation, and platelet estimations more efficiently and consistently than ever before.

End to End Digital Workflow

The FF-PBS Application reduces turnaround time for sample reviews by 60%, representing significant optimization of lab workflows and operational efficiencies.

Remote Connectivity

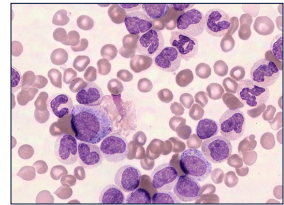
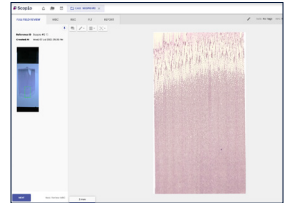
Regardless of location, experts have secure browser-based access to the device through the hospital network. Remote work, review, collaboration and consultation is now a real-time reality.

An end to end digital PBS analysis with zero compromises.

Imaging – High Resolution and Full-Field Perspective

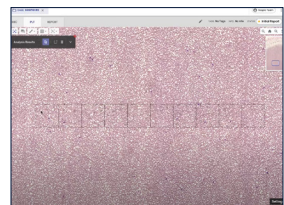
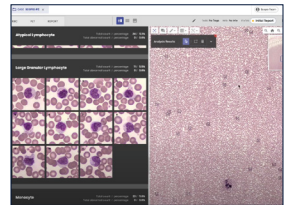
Scopio Labs' revolutionary technology uses computational photography to provide unprecedented images of vast numbers of cells, including the monolayer and the feathered edge. Lab experts have a full-field view of the sample at 100X magnification.

See the image in full context or zoom in to the smallest details, both of which are vital for confident clinical decision-making.



Morphology Decision Support System Powered by AI

Scopio's clinical-grade Decision Support System automatically performs WBC detection to analyze 200 WBCs and provide suggested pre-classification into 16 classes. Combine this powerful WBC differential with platelet location and pre-estimation from 10 FOVS, and red blood cell (RBC) morphology evaluation from 1000 Fields of View (FOVs), Scopio brings a new level of standardization and confidence to cases. The results from each stage in the review process can then be verified by the certified lab tech carrying out the review.



A Flexible, Easy to Use Digital Workflow

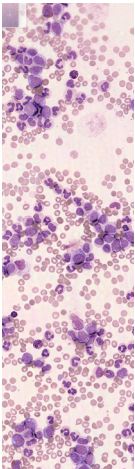
Labs can experience a completely digital hematology workflow that yield a 60% more efficient workflow while delivering more consistent results.

The FF-PBS provides lab professionals with an intuitive user interface and easy to use application allowing them to approve, reclassify, or augment cases with comments, insights and annotations. Lab technicians can see the full context of the scan, pan, and zoom with point-and-click speed and ease, and rapidly configure the different aspects of the digital workflow for improved workflow efficiency.

The results of every assessment, including images, annotations and flagged abnormalities, are all automatically documented in a standardized digital report.

Real-Time Collaboration

Scopio's browser-based remote workflow solution means offsite colleagues, hematopathologists and clinicians can review, collaborate or consult from any location in real-time. They have the same secure access through the hospital network to the entire digital case as anyone in the lab, with the ability to see the entire full-field image or zoom in on any area of interest at 100X. The result is that remote review can happen instantly, treatment can begin faster and with greater confidence.





The Best of All Worlds at Digital Speed

With the FDA cleared and CE marked Full-Field Peripheral Blood Smear (FF-PBS) Application on the X100, Scopia offers adaptive monolayer detection, full-field imaging of the monolayer and the feathered edge at 100X magnification, and an AI-powered Decision Support System (DSS) that provides experts with reliable, consistent information to support their diagnostic decisions.

Highlights of the FF-PBS Application on the X100 include:

- An end to end workflow solution that requires lab experts to review and verify pre-estimations and pre-classifications suggested by the DSS
- The X100 platform with three-slide loader capacity
- Different scan modes allowing the expert to identify various clinical conditions at optimum throughput
- AI-supported differential with 200-cell WBC detection and pre-classification to 16 cell classes
- AI-supported platelet pre-estimation from 10 FOVs
- Allowing users to perform RBC morphology evaluation from 1000 FOVs
- ICSH-standard PBS digital report
- Unlimited flexibility for the user to review, modify or confirm the system-generated fields of view, pre-estimations, and pre-classifications
- State-of-the-art user interface for enhanced user experience
- Fully traceable, reproducible results and documentation
- Full browser-based remote access to the case through the hospital's secure network, without the need for local software install
- Integration with clinical LIS
- Image and analysis storage for educational and research purposes

AI-Powered FF-PBS Workflow

Sample Prep

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



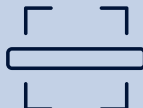
Slide Processing

Insert slides into the X100, up to 3 slides at a time.



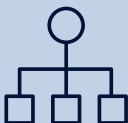
Scan

Adaptive Monolayer Detection supporting long and short smears, plus the monolayer and the feathered edge are included.



Decision Support System

Suggested pre-classification and pre-estimation of cell differential, 200 WBC pre-classified into 16 classes and platelet pre-estimation.



Review

General impression of the entire scan, accept or reclassify the WBC, assess RBC and review and approve platelet estimation.



Report

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



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

≈ 1000 high power fields of view available for monolayer + 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 (WxDxH)

32 × 36 × 38 cm

12.5 × 14 × 15 inches

Processing Unit Size

19 × 42 × 52 cm

7.5 × 16.5 × 20.5 inches

System Weight

13 Kg / 28.7 lbs

Electrical Specifications

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

Storage Capacity

1.5K full-field cases, including images + analysis layer, and 15K reports

Lab Communications

LIS support



Scpio Labs (www.scpiolabs.com) is transforming the process of cell morphology analysis, offering a suite of fully digital diagnostic applications and platforms that enables labs to assess and analyze cell morphology at unprecedented scale and depth.

The company's combination of high-resolution imaging and an AI-powered decision support system makes the diagnosis process more efficient and consistent across the continuum of care.

For more information, please contact: hematology@scpiolabs.com