

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.

Manual microscopy at 100X has historically been the gold standard for peripheral blood smear (PBS) review, requiring a lab technician to manually count and classify 100-200 cells. Efforts to digitalize and automate this process have been limited by technological constraints, which presented a trade-off between resolution and field of view - until now.



End to End Digital Workflow

The FF-PBS Application reduces turnaround time for sample reviews by 60%¹, representing significant optimization of lab workflows and operational efficiencies.

The Full-Field Peripheral Blood Smear (FF-PBS) Application on Scopio's X100 and X100HT platforms, is an end-to-end digital cell morphology solution that completely supplants the manual microscope. By combining breakthrough imaging technology and an AI-powered Decision Support System (DSS), the application empowers lab professionals to conduct WBC differentials, RBC morphology evaluation, and platelet estimations more efficiently¹ than ever before.



Remote Connectivity

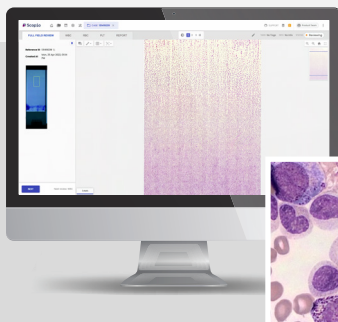
Regardless of location, experts have browser-based access to images through the secure hospital network. Real-time remote work, review, collaboration and consultation is now a reality.



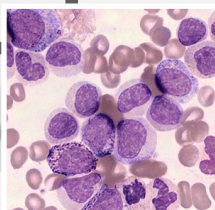


An end-to-end digital PBS analysis with zero compromises.

Imaging – High Resolution and Full-Field Perspective



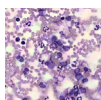
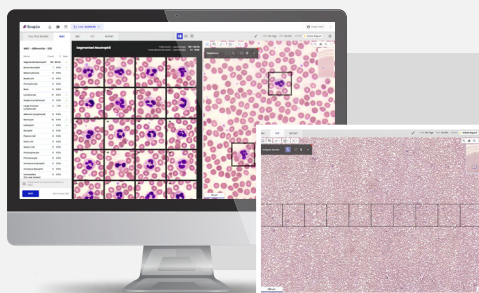
Scopio Labs' revolutionary technology uses computational photography to provide unprecedented images of vast numbers of cells, including the monolayer and the feathered edge. Lab experts have a full-field view of the sample at 100X magnification.



Seeing the image in full context or zooming into the smallest details are both vital for confident clinical decision-making.

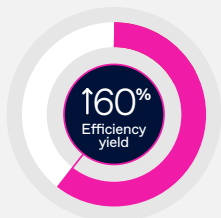
Morphology Decision Support System Powered by AI

Scopio's clinical-grade Decision Support System automatically performs WBC detection to analyze 200 WBCs and provide suggested pre-classification into 14 classes. Combining this powerful WBC differential with platelet location and pre-estimation from 10 fields of view (FOVs), and red blood cell (RBC) morphology evaluation from 1000 FOVs, Scopio brings a new level of standardization² and confidence to cases. The results from each stage of the review process can then be verified by the certified lab tech carrying out the review.





A Flexible, Easy-to-Use Digital Workflow



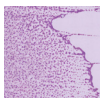
Labs can experience a completely digital hematology workflow that yields a **60%¹ more efficient process** while delivering more consistent results.

The FF-PBS Application provides lab professionals with an intuitive user-friendly 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. Using the secure hospital network, remote experts can access the entire case as if they were in the lab. With the ability to see the entire full-field image or zoom in on any area of interest at 100X magnification, remote review can happen instantly, treatment can begin faster and with greater confidence.





The Best of All Worlds at Digital Speed

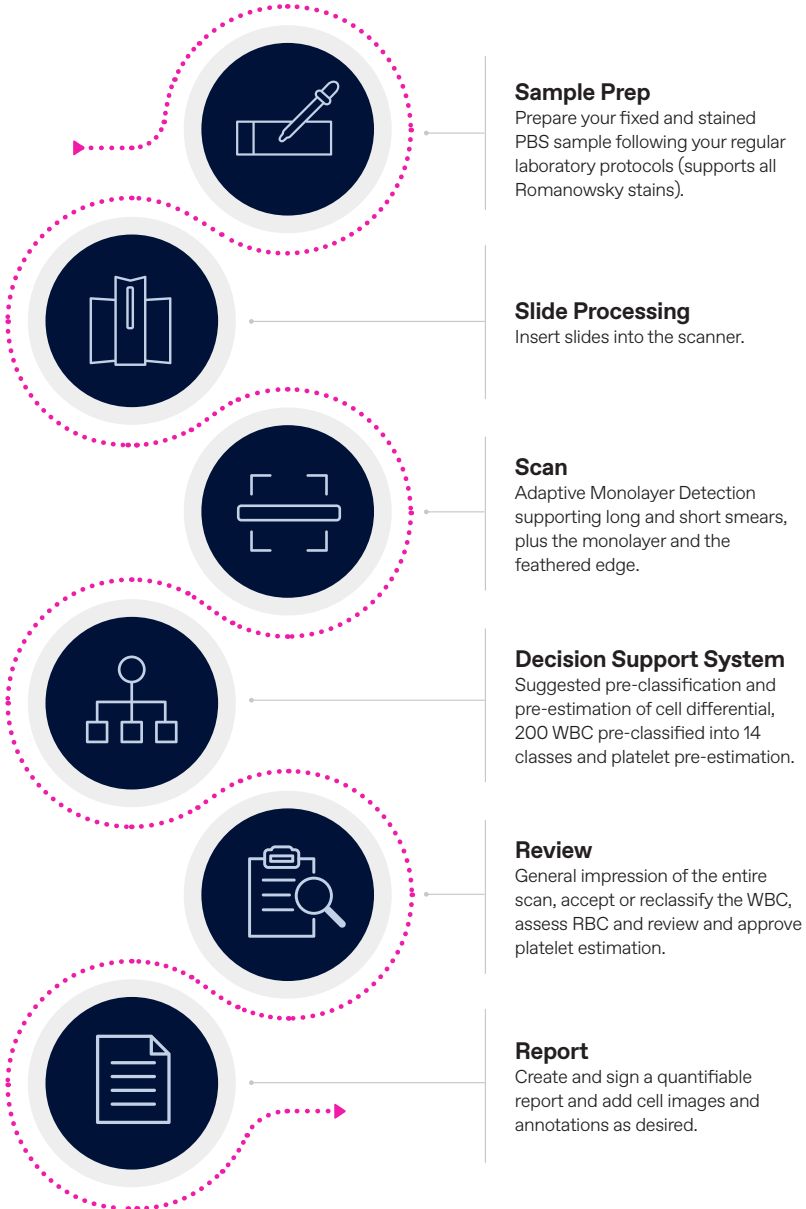
With the FDA-cleared and CE-marked Full-Field Peripheral Blood Smear™ Application on the X100 and the X100HT, Scpio offers adaptive monolayer detection, full-field imaging of the monolayer and the feathered edge at 100X magnification, and an AI-powered Decision Support System (DSS) that provides experts with reliable, consistent information to support their diagnostic decisions.

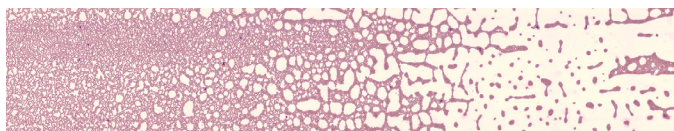
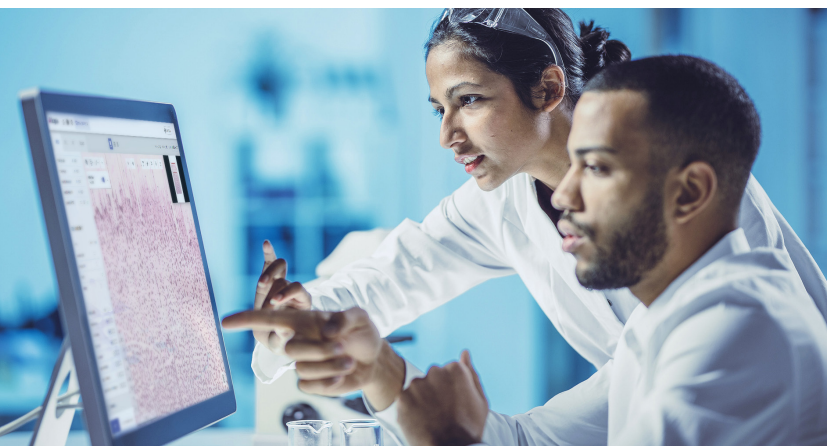
Highlights of the FF-PBS Application include:

- An end-to-end workflow solution that allows lab experts to review and verify pre-estimations and pre-classifications suggested by the DSS
- Different scan modes allow the expert to identify various clinical conditions at optimum throughput
- AI-supported differential with 200-cell WBC detection and pre-classification to 14 cell classes
- AI-supported platelet pre-estimation from 10 FOVs
- Allows 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 internal secure network
- Integration with clinical LIS
- Image and analysis storage for educational and research purposes



AI-Powered FF-PBS Workflow





Scopio Labs is transforming cell morphology analysis, offering a suite of fully digital applications and platforms that enhance clinical workflows. By assisting lab experts with fast, early, and accurate detection and diagnosis of disease, Scopio expedites patients' access to life-saving treatments.

Solving the trade-off between field-of-view and resolution, Scopio 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 diagnostic process more efficient across the continuum of care.

Scopio Labs' FDA-cleared, CE-marked X100 and X100HT with the Full-Field Peripheral Blood Smear Application is in full commercial use across the U.S. and Europe.

To learn more, visit
<https://scopiolabs.com/>

References:

¹ Katz B-Z, et al. Evaluation of Scopio Labs X100 Full Field PBS: The first high-resolution full field viewing of peripheral blood specimens combined with artificial intelligence-based morphological analysis. *Int J Lab 7 Hematol*. 2021;00:1-9. <https://doi.org/10.1111/ijlh.13681>

² Katz B. et al. *Int Journal of Lab Hematol*. 2021;43:1408-1416.



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