

# Scopio

Unlocking the diagnostic potential of imaging and AI in hematology, by introducing Full Field Morphology at scale

## A Paradigm Shift in Diagnostics

Scopio's innovative solutions enable new hematology diagnostic methods and open the door to broad, actionable, early diagnosis, as well as disease and treatment monitoring of innumerable conditions manifested in the blood. Scopio scans large areas of hematology slides, analyzing a vast number of cells in high resolution.

Microscopy is a cornerstone of science and medicine upon which diagnosis, research and innovation are built. However, it continues to rely mainly on manual microscopes which lack the ability to quantify the data available in the blood sample and prevent true remote capabilities, shackling the enormous potential for early and accurate diagnoses.

Scopio's Full Field Morphology (FFM) technology and tailored AI tools scan and analyze extensive amounts of data within minutes.

The analysis of cellular and subcellular parameters at scale is set to propel the field of hematology diagnostics into a new era.

## Scopio by Numbers

2015

Founded

Q4 2020

FDA approval

\$34M

Funding

75

Employees in US, UK and IL

12

Patents filed; 3 allowed

## Breakthrough Technology

Scopio Labs has created the highest resolution, highest quality digital microscopy platform in the world using **computational photography**. The system captures multiple images in low resolution, under smart illumination conditions. Specially developed imaging algorithms are then used to rapidly reconstruct the images into X100 oil immersion equivalent resolution, in a short amount of time.

[Click here to see a scan](#)

Rapid analysis with no more trade-off between resolution and field-of-view

Built on top of this breakthrough technology is Scopio's **clinical grade end-to-end AI-based Decision Support System (DSS)**. This powerful combination of digital microscopy with built-in AI brings detection, quantification, pre-classification and morphology visualization to the lab from large scan areas.



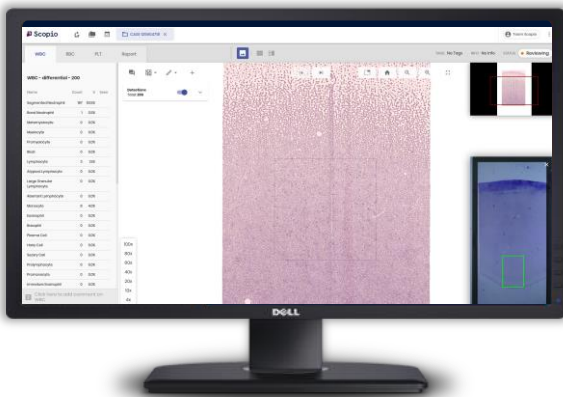
## Scopio Hematology

Scopio's family of products includes:

### X100 With Full Field Peripheral Blood Smear Application (FFM-PBS)

The FDA-cleared and CE certified, Full Field Peripheral Blood Smear (PBS) Application gives hematology laboratories of all sizes reliable, consistent and accelerated diagnostic capabilities. The ability to get the full context of the slide in high resolution, including the feathered edge, eliminates the need to revert back to the manual microscope.

Scopio's scanning technology and AI-powered DSS create new efficiencies, robustness irrespective of sample preparation, and makes true remote analysis viable.



Full Field PBS View



Cell pre-classification with slide context





X100	X100 HT (*)
3-slide tray	30-slide loader
Up to 15 slides/h for 200 WBC differential	Up to 40 slides/h for 200 WBC differential
Small, medium labs	Large labs

(\*) Not commercially available in the US

The first digital solution to truly replace the manual microscope

## Product Highlights

-  Full field view of the PBS
-  Adaptive area of analysis (monolayer detection), supporting different smear lengths
-  Imaging of monolayer + feathered edge @ 100x oil immersion level resolution
-  200 WBC pre-classification to 18 classes
-  Automatic platelet pre-estimation
-  RBC morphology evaluation from 1000's of Fields of View (FOVs)

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## A True Remote Solution

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Scopio facilitates seamless remote review, consultation and global collaboration with easy access to the full field view of all the scanned areas of interest as well as the results of the analysis and pre-classification, from any location through the secured health care network.

Current semi-digital morphology solutions, utilizing snapshots of cells, often result in the need to default to the manual microscope in order to complete the analysis. This is due to the lack of scan context, susceptibility of results to sample quality and the sensitivity to long or short smears. The requirement to physically access the glass slide on the manual microscope prevents a true remote solution.

Experts can be secure in the knowledge that the remote diagnosis is just as good as being in the lab.

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## Quality Control at the Highest Standard

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Scopio's production line has already manufactured more than 200 units. In 2021 this number will grow substantially.

The PBS application has been validated in several hematology hospitals and labs in the US and Scopio's veterinary digital cytology application is currently installed in close to 100 Veterinary hospitals and clinics in the US and Europe.

Scopio and its manufacturing facility are certified under the ISO13485 quality standard. The company's products are tested for safety and the relevant IEC standards to comply with the European IVD directive and FDA requirements.



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## About Scopio

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Scopio Labs, a leading provider of Full Field Morphology (FFM), developed a breakthrough digital microscopy platform based on computational photography and unique AI capabilities that enable rapid scanning and analysis of hematology slides at the highest resolution in the world today.

Founded in 2015 by Itai Hayut and Erez Na'aman, Scopio Labs has raised \$30 million to date. Investors include Olive Tree Ventures, Aurum Ventures, OurCrowd, LR Group and others. The company operates out of the US and Israel.



For more information visit our website [scopiolabs.com](https://scopiolabs.com) and follow Scopio

