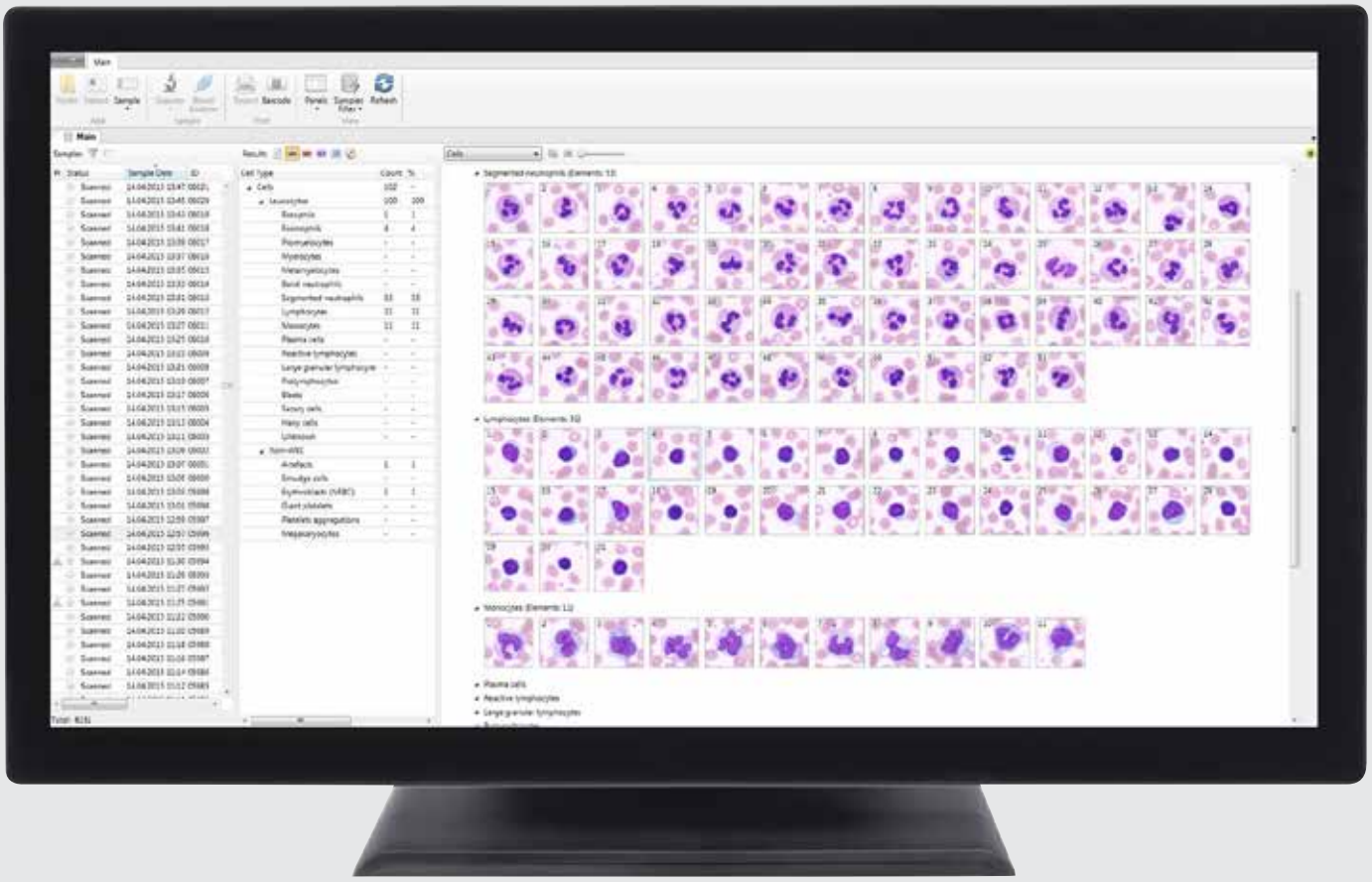
WEST MEDICA

Vision Hema® Ultimate

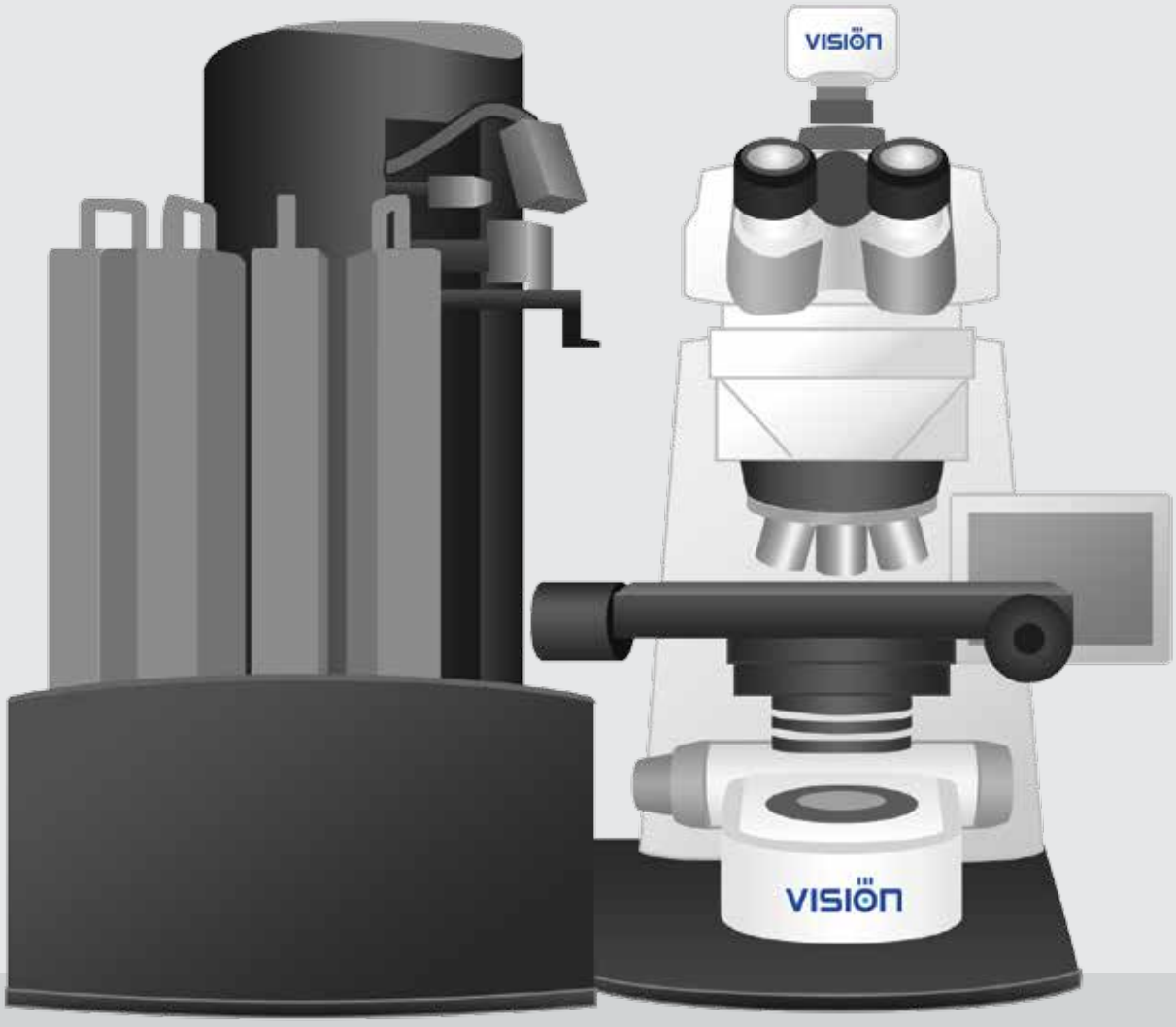
Automated hematology imaging analyzer



Effective and professional solution for large-sized laboratories

Workflow automation and standardization. Improved quality and increased productivity. Time efficiency.

- Loading up to 200 slides simultaneously
- Random access and STAT testing
- Walk-away mode
- Working during the night shift without operator



Automated scanning and blood smear analysis procedure

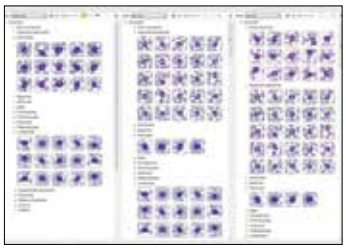
1

Load the slides in a rack.

2

Press the Start button.

3



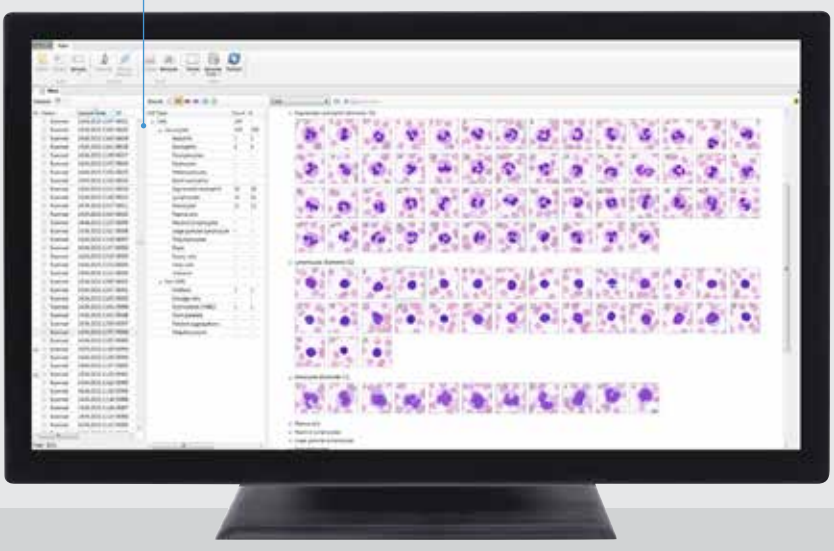
The system will run automatically.

User-friendly

Large touch-screen LCD display with intuitive interface. Just press the “Start” button to run the slide analysis.

Identification and pre-classification of blood cells

Laboratory personnel performs the validation of analysis results, make corrections if necessary and confirms the analysis results.



A unique information environment

Remote consultations and expert opinions, supervision and monitoring as well as validation of results. Possibility of bi-directional communication with LIS.

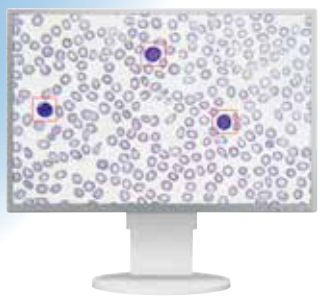
Remote consultations
and expert opinions

Remote supervision
and monitoring

Remote validation
of results

Vision Hema® Ultimate

LIS



Vision Hema® Basic

Vision Hema® Assist

1

Effectiveness of a single database

Vision Hema® Ultimate shares a database with other Vision Hema® systems installed at the same facility or at a remote location. The integrated information delivery network allows to flexibly manage personnel and their professional expertise.

By using Vision Hema® system, hospitals and healthcare organizations strengthen their cooperation with laboratory sites and make laboratory workflow more efficient. It' is now possible to maintain blood cell expertise at all sites 24 hours a day.

2

Integration with Information Systems

Vision Hema® Ultimate enables bi-directional LIS communication that simplifies the transfer of results.

3

No more distance or barriers

By combining Vision Hema® system and Vision Hema® Remote software, healthcare networks bridge distances between laboratories and eliminate personnel shortage. A blood smear analyzed at one hospital can be reviewed at any other location. Alternatively, all blood smear results can be centralized to one specific site.

4

Access blood cell images anytime and anywhere

By using Vision Hema® Remote software, pathologists and clinicians have real-time access to their patients' blood cell images from their office, no matter the location where the samples were run. Thus, the process of specialists giving a second opinion is simplified. In addition to blood cell images obtained today, they also have access a patient's archived images for comparison.

Specification

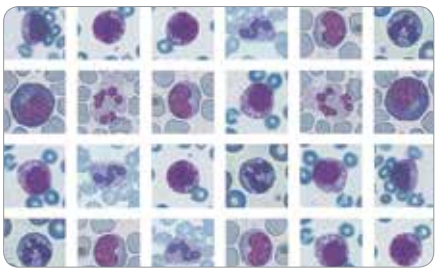
	General specifications
Working modes	— Blood smear analysis, virtual slide
Capacity	— Up to 200 slides
Slide handling	— Automatic
Immersion oil dispensing	— Automatic
Slide identification	— Buily-in barcode-labeled/manual
	Blood smear analysis
Automatic scanning and pre-classification	— Queue, continuous, random access, STAT testing, 24/7
Magnification	— 100x oil WBC, 50x oil RBC, 50x PLT
Quality control	— Assessing diagnostic parameters: sensitivity, specificity and efficiency
	Virtual slide
Magnification	10x, 50x Oil, 100x Oil
	System components
Contents	— Automatic slide loader — Built-in barcode reader — Scanning microscope — Automatic oil dispenser — Personal computer — Touch-screen monitor for control — Monitor for validation — Vision Hema® Ultimate software — Vision Hema® Remote software — Instrument for preparation of blood smears

	Technical specifications
Simultaneous loading	— Up to 200 slides, 4 cassettes for 50 slides each
Supported codes	— 1D, 2D, QR
Optical system	— 100x Oil, 50x Oil, 10x
Microscopic slides	— Standard 75x25 mm, 1.1 mm thick
Immersion oil	— Automatic dispensing. A bottle of oil is enough for up to 1000 slides
Communication	— Bi-directional LIS, LIS2-A2 (ASTM), HL7, Ethernet
Throughput	— Up to 30 slides per hour (100 WBC, 500 RBC, PLT)
Multiple user access	— 4 pre-set types of users: Administrator, Doctor, Technician, Receptionist; new types of users can be added; adjustable access rights for users
Database	— Multiple systems can share one database; one blood smear result size: 2 MB; for 10 000 results — 20 GB; archiving of results via transfer to external storage media

	Options
Modules	— Vision Hema® Extended RBC — detailed analysis of erythrocytes — Vision Hema® Bone Marrow — analysis of bone marrow cells — Vision Hema® RET — identification and pre-classification of reticulocytes — Vision Hema® Body Fluids — cell morphology in human body fluids
Remote access	— Vision Hema® Remote — remote access to blood smear analysis results

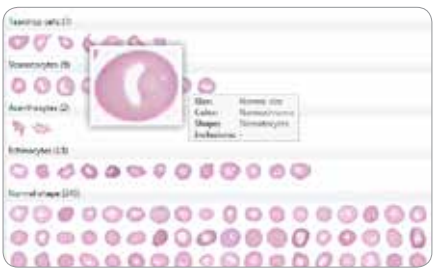
	Additional
Equipment and accessories	— Immersion oil — Microscopic slides — External barcode reader — Printer for barcode label printing — Barcode labels — Automated stainer

Main characteristics



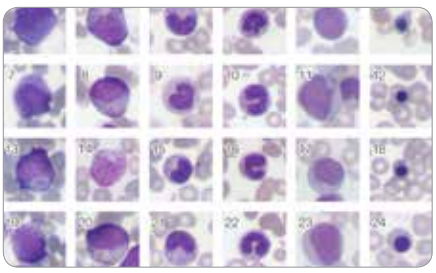
Automatic scanning, identification and pre-classification

Vision Hema® automatically scans a microscopic sample, collects data for analysis, sorts blood cells and saves the results in the database.



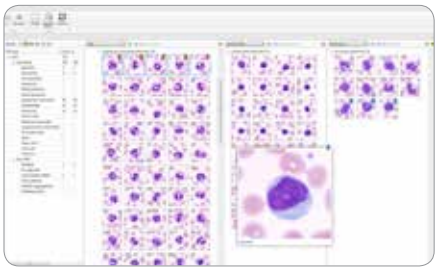
Validation of WBC, RBC and platelets

The specialist is free from routine monotonous work. Analysis results are displayed in galleries of cells and arranged in groups. All you need to do is review and verify the results.



Solution for difficult cases with pathological blood cells

Pre-classification by types of leucocyte and identification of immature and atypical shapes of blood cells including blasts; pre-classification of normoblasts and other non-leucocytic cells.



Flexible interface provides easy and convenient running

Vision Hema®'s flexible interface can be learned by a user in just few minutes. Variety of features ("shortcut" keys, Drag&Drop, etc) allow you to keep the work style you are used to.

Analysis and interpretation of results

Final analysis results are presented in the form of tables, graphic charts and images of blood cells.

Education and professional development

Improve your experience and professional expertise every day. Discuss difficult cases simultaneously with other specialists. Demonstration and discussion of data on the screen makes the learning process so much easier.

* Product images are shown for reference only and final product may differ

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