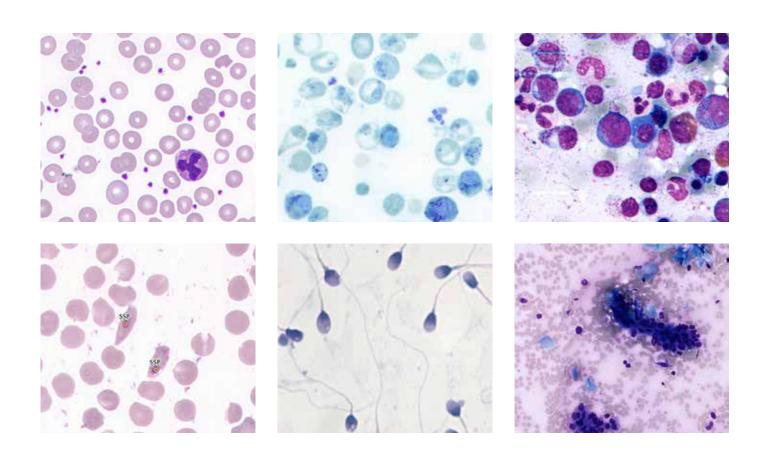




Vision | Catalogue 2018

Clinical laboratory and digital microscopy. Automated systems and solutions.





West Medica



West Medica feels strongly that innovation is the key to a brighter future and improves the quality of life for everyone. Development of Vision solutions for digital microscopy is a top priority and the main focus of West Medica.

Technology is an increasingly influential factor in many fields as new methods are established every day and that's the reason why West Medica always tries to be one-step ahead. New analytical procedures are regularly introduced onto the market and as a result customers are often looking for solutions to keep up-to-date on the latest scientific developments.

Vision systems are designed to maximize the use of advanced technology features and capabilities, optimise and standardize workflow and staff productivity as well as foster professional growth. Specialists that are looking for professional development and recognize new digital technologies are presented with unlimited resources in their field.

Your friendship and trust are very significant to us and our goal is to provide you with high quality and professional support.





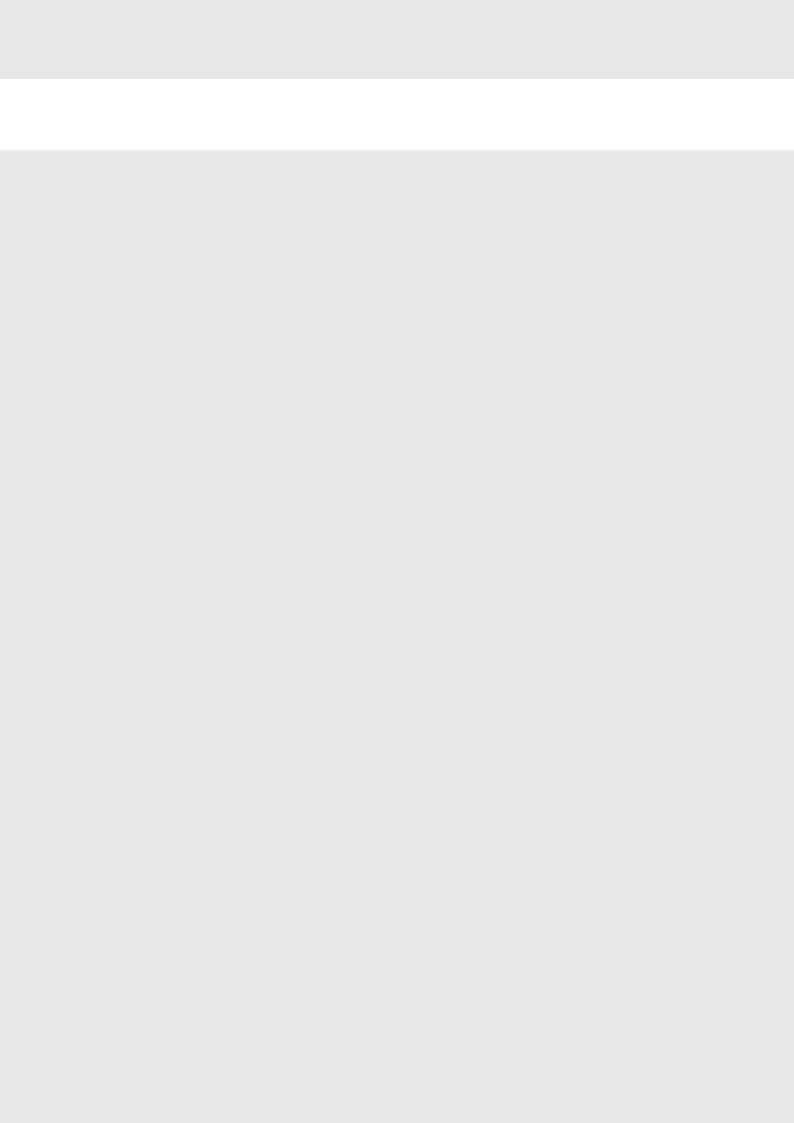




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Products



Hematology

Vision Hema®

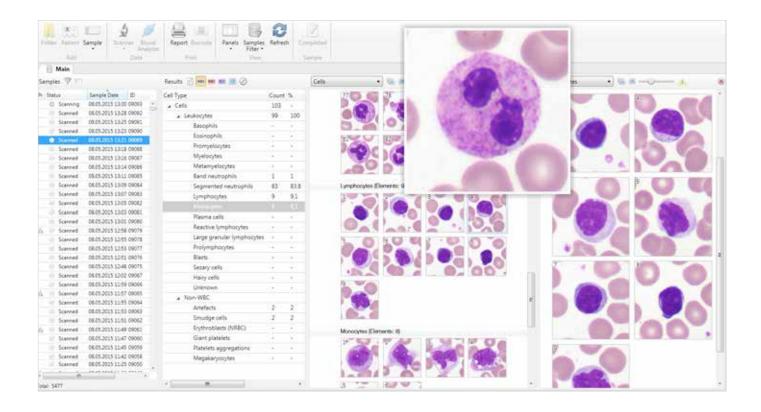
Automatic identification and pre-classification of blood cells

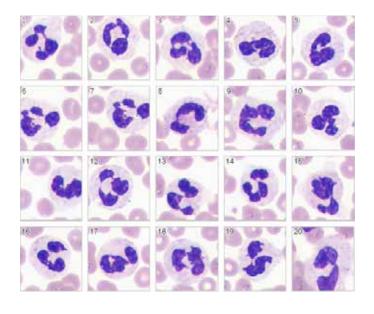
Vision Hema® Solutions

Additional features

Vision Hema®

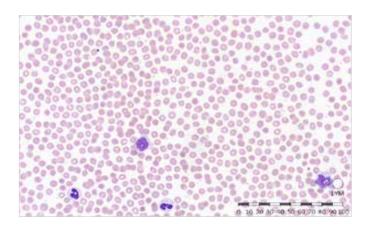
Automatic identification and pre-classification of blood cells

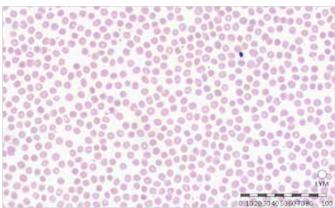




Identification and pre-classification of leucocytes*

- —Basophils
- Eosinophils
- Promyelocytes
- Myelocytes
- Metamyelocytes
- -Band neutrophils
- Segmented neutrophils
- -Lymphocytes
- Monocytes
- Reactive lymphocytes
- —Blasts
- Erythroblasts and others



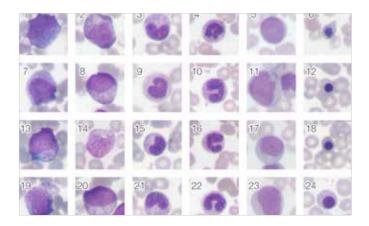


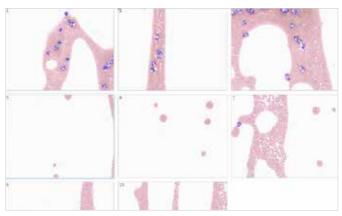
Analysis of erythrocytes

- —Size
- —Color
- —Shape
- Inclusions

Analysis of platelets

- —Normal
- -Micro
- -Macro





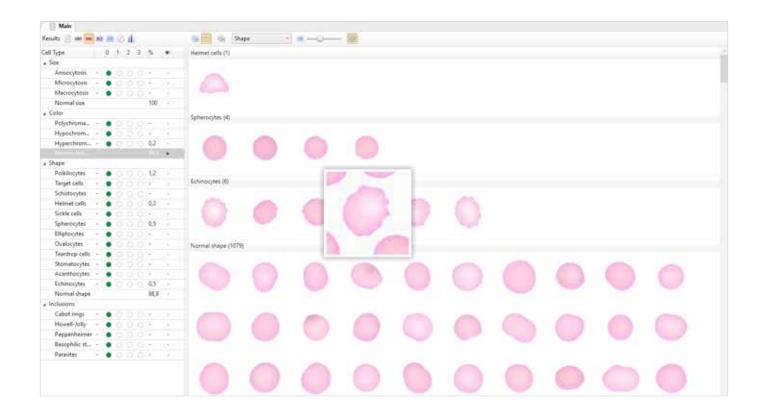
Analysis of pathological and complex cells

- Cells with degenerative changesImmature forms of neutrophils
- —Atypical forms of lymphocytes
- -Blasts
- Erythroblasts, smudge cells and other non-WBC cells

Scanning of blood smear tail

- —Additional assessment of atypical forms of leukocytes
- —Assessment of platelet aggregations

Detailed analysis of erythrocytes



Automatic identification and pre-classification of erythrocytes by size, color, shape and inclusions*

By size

- Anisocytosis
- Microcytes
- Macrocytes

By colour

- Polychromatic cells
- Hypochromic cells
- Hyperchromic cells

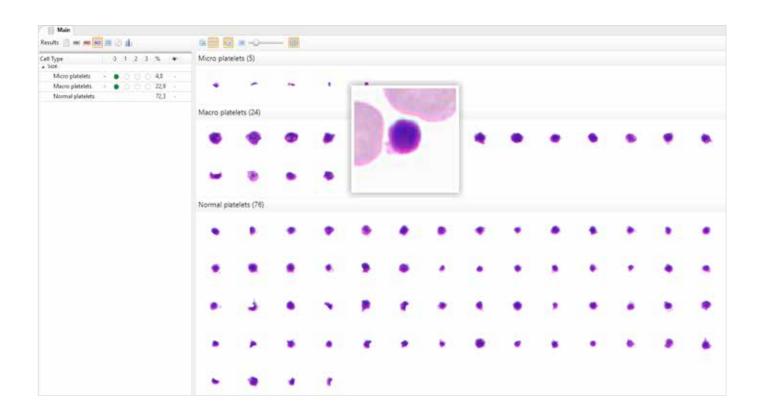
By shape

- Poikilocytes
- Target cells
- Schistocytes
- Helmet cells
- Sickle cells
- Spherocytes
- Elliptocytes
- Tear drop cells
- Keratocytes
- Stomatocytes
- Acanthocytes
- Echinocytes

By inclusion

- Cabot rings
- Howel-Jolly bodies
- Pappenheimer bodies
- Basophilic stippling
- Parasites

Detailed analysis of platelets



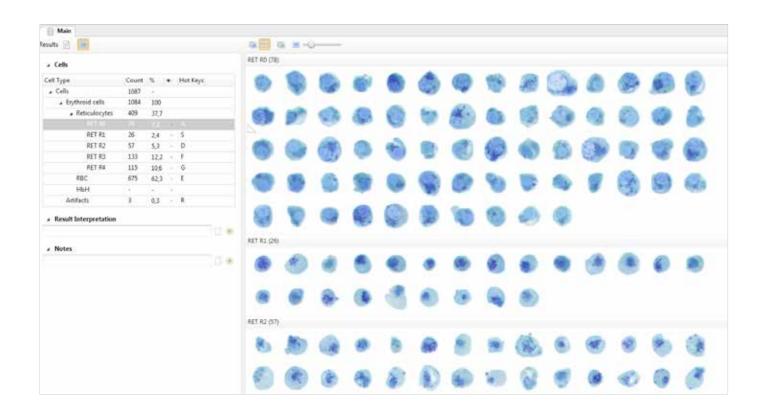
Automatic identification and pre-classification of platelets by size*



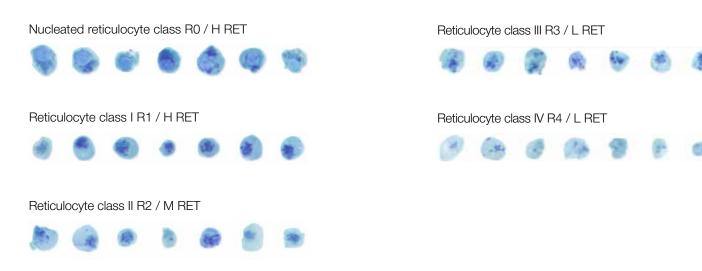




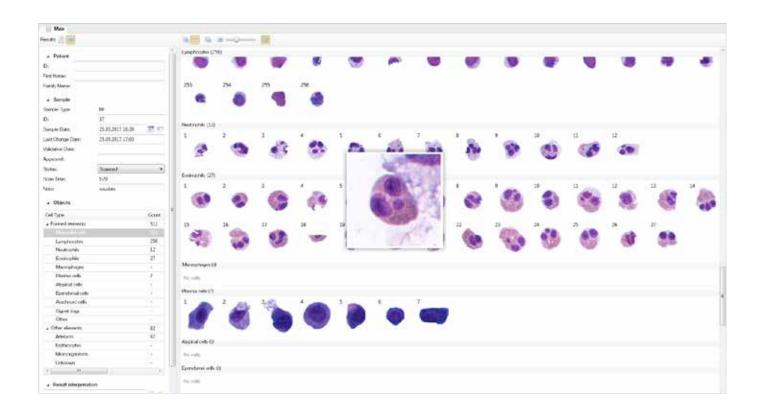
Identification and pre-classification of reticulocytes

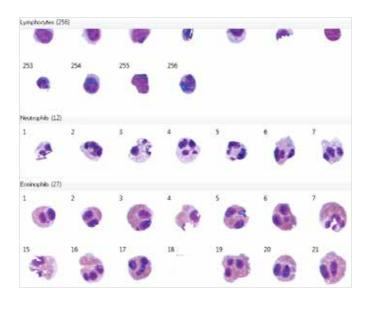


Automatic identification and pre-classification of reticulocytes by classes*



Identification and pre-classification of cells in human body fluids





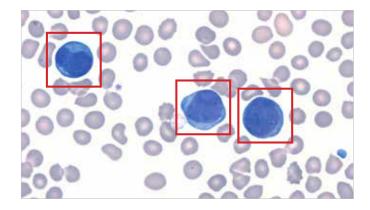
Automatic identification and preclassification of cells and elements*

Formed elements

- Mesothelial cells
- -Lymphocytes
- -Neutrophils
- Eosinophils
- Macrophages
- —Plasma cells
- -Atypical cells
- Ependymal cells
- -Arachnoid cells
- —Signet cells
- -Artefacts
- Erythrocytes
- Microorganisms

Vision Hema® Solutions

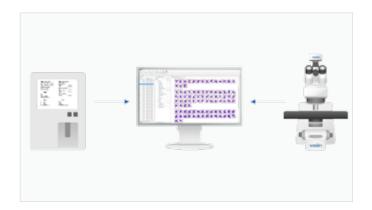
Additional features



Vision Hema® Capture

Solution for small-sized laboratories

- Capture the images of blood cells
- Use your personal computer and microscope
- Transmit the captured cell images to centralized laboratory



Vision Hema® Integro

Integrated hematology solution

- Screening performed on a hematology analyzer. Results are automatically transferred to the system
- —Automated microscopy of blood cells. Collected blood cell data is automatically identified and pre-classified
- -Single report full picture of CBC analysis
- Single report full picture of ODO analysis Standardization of blood smear analysis procedure (Vision Hema® Manager)



Vision Hema® Manager

Standardization of blood smear analysis procedure

- Results are automatically transferred from the hematology analyzer or the LIS
- Analysis of the results received from the hematology analyzer, "flags", reference ranges and patient information
- On the basis of the set user rules, the Vision Hema® Manager select between completing or continuing the examination



Vision Hema® Expertise

Online testing. Quality control and training of specialists

- Evaluation of specialists' qualifications
- Standardization of knowledge and skills of specialists in the organization
- Transparent test results
- Remote access to testing
- —Documents the continuous education of your team

www.vision-expertise.com

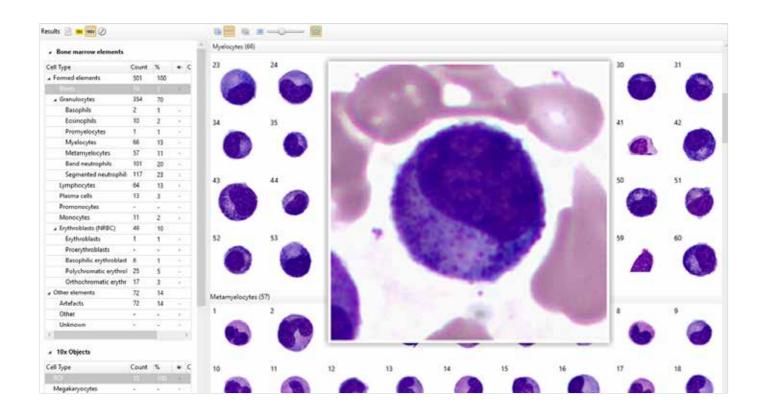
Bone Marrow

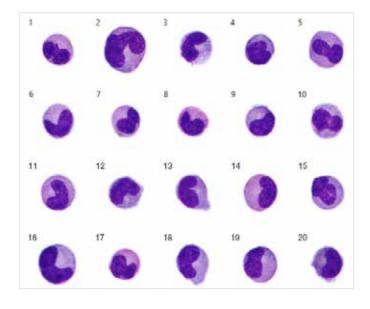
Vision Hema® Bone Marrow

Automatic identification and pre-classification of bone marrow cells

Vision Hema® Bone Marrow

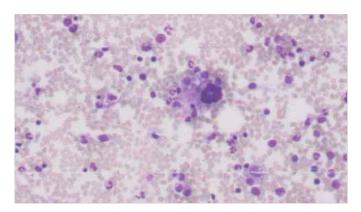
Automatic Identification and preclassification of bone marrow cells





Identification and pre-classification of bone marrow cells*

- —Blasts
- -Basophils
- Eosinophils
- Promyelocytes
- Myelocytes
- Metamyelocytes
- -Band neutrophils
- Segmented neutrophils
- —Lymphocytes
- Erythroblasts and others

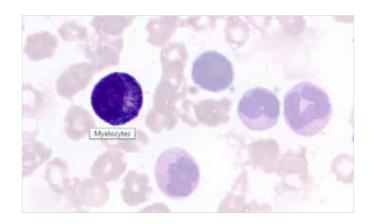


Localisation of megakaryocytes at 10x magnification

Scanning of Region of Interests (ROI) at 100x magnification

Highlighting of selected objects

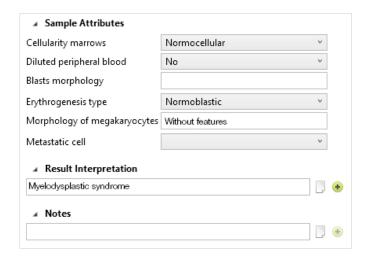
Hovering over a type of cell displays a pop-up notice with detailed information



Bone marrow examination

Bone marrow examination is performed in two stages, a visual assessment of the smear and a differential bone marrow count.

The system provides convenient tools for both stages of bone marrow examination.



Malaria

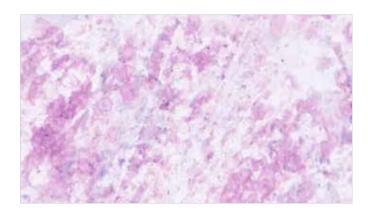
Vision Hema® Malaria

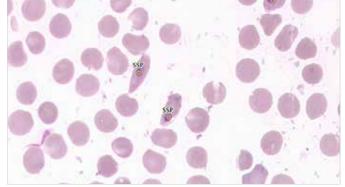
Automation of malaria analysis

Vision Hema® Malaria

Automation of malaria analysis





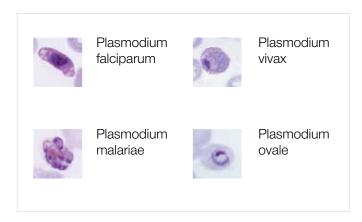


Digital slide of thick smear

Automatic scanning of 100 fields of view. A specialist identifies the presence of plasmodium in a digital slide. If plasmodium is detected, then a thin smear is prepared and scanned.

Digital slide of thin smear

The system automatically scans the slide and performs RBC calculation (up to 800 fields of view). The results are presented as fields of view gallery.



Validation of type of plasmodium

The embedded Jekel algorithm provides a standardized method for identifying the plasmodium type.

Calculation of percentage parasitemia

Parasitemia percentage is an indicator of parasites content in blood and it is an element to select the correct treatment.

Jekel A	lgorithm
Index "A"	∠ Have you ever been in a malaria risk area (for example: Africa, Asia, Latin America, etc.)?
	✓ Have you ever been to Malaysia?
	Did you ever receive a blood transfusion?
	✓ Have you been to international airports?
	Do you have flu-like symptoms as fever, shivering, headache, diarrhea?
1000	
	aria-infection: suspicion
/// Mat	atla-infection: suspicion
A Mak	aria-infection: suspicion
A Mal	uria-infection: suspicion
// Mal	aria-infection: suspicion
Index "8"	O poyou see one or more trophozoites (ring-shaped parasite) within one or more erythrocytes?
	Do you see a schizont (one of the stages of cell division, the following stage is called merozoite) inside of an erythrocyte?
	Do the infected erythrocytes show the same size as the non-infected erythrocytes?
	Does the parasite fill in almost the whole erythrocyte?
	○ None of the options
A. Mat	aria positive
	Are the infected erythrocytes enlarged, compared to the non-infected enythrocytes?
	✓ Do the trophozoites show an amoeboid form with irregular vacuoles inside their bodies?
	Do you see the so-called Schuffner's dots?
	Are the markedly enlarged infected erythrocytes round or almost angular?
	Do the schizonts (stage of cell division of the parasite in the enlarged enythrocyte)
	contain more than 12 merozoites?
	Does the parasite fill in almost the whole enlarged erythrocyte?
A Te	ertian malaria: Plasmodium vivax
Index*c	Do most of the markedly enlarged infected erythrocytes have an oval shape with sometimes distorted ends?
	Do the schizonts (stage of division of the parasite in the enlarged erythrocyte) contain only 8-12 merozoites?
Index "I	Do the infected, non-enlarged erythrocytes show the so-called Maurer's dots?
	Do the non-enlarged erythrocytes frequently contain more than 1 ring-shaped parasites?
	Do the ring-shaped parasites in the infected erythrocytes frequently contain 2 nuclei (chromatin dots)?
	Only valid in peripheral blood: Is it conspicuous, that no schizonts can be found in the infected erythrocytes?
	Do you find half-moon shaped or banana-shaped gametocytes (sexual form of the parasite)?
Index "E	Do you frequently find only 1 ring form in the non-enlarged infected erythrocytes
	Do the infected non-enlarged erythrocytes sometimes show band-shaped trophozoites?
	Do the schizonts (stage of cell division) contain only 6-14 merozoites? Do the schizonts often look like a daisy flower head with a yellow pigment in the center?
	☐ Does the parasite fill in almost the whole erythrocyte?
Result !	Interpretation
	[D .
. Notes	
a rectes	THE ALL OF

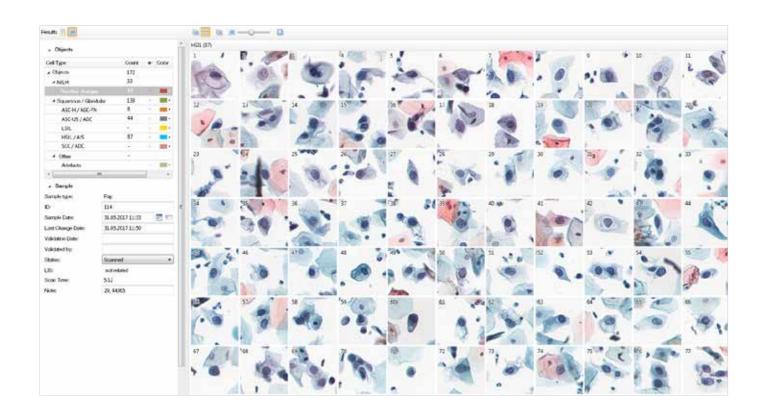
Oncogynecology

Vision Cyto® Pap

Automation of cervical cytology

Vision Cyto® Pap

Automation of cervical cytology





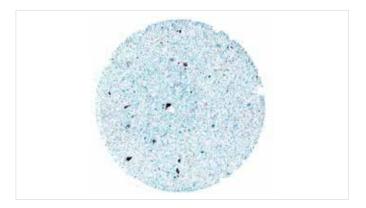
Automatic pre-classification by Bethesda system*

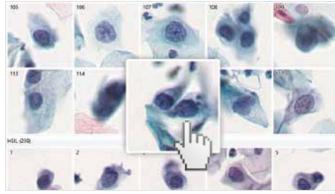
NILM

- Reactive changes

Squamous / Glandular

- -ASC-US / AGC
- -ASC-H / AGC-FN
- -LSIL
- -HSIL / AIS
- —SCC / ADC





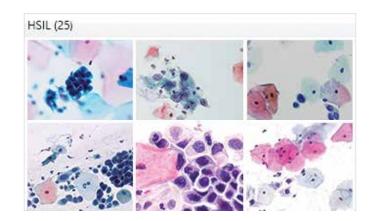
Creating virtual sample

Pre-classified elements gallery

Hints from the cell atlas

Add images with comments to the atlas for further use.

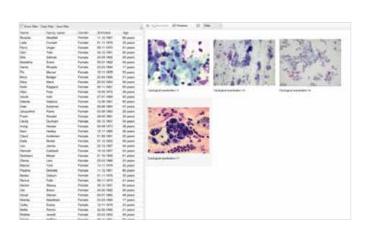
Use the atlas as a reference for cytological examinations, sharing of experience and studying.



Database for archive management

Database stores all patient and sample data as well as analysis results and reports. The data are presented in the form of patient records with attached analyses.

Quick evaluation of changes in analysis results of a particular patient.



Cytology

Vision Cyto®

Management and interpretation of cytological examinations

Vision Cyto® Body Fluids

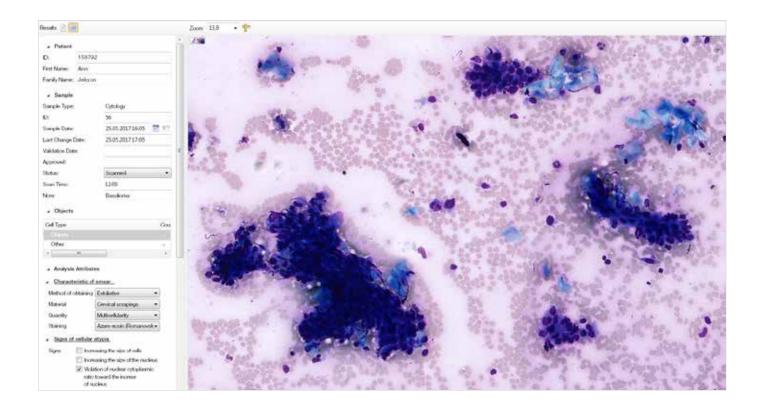
Automatic identiifcation and pre-classification of cells in human body fluids

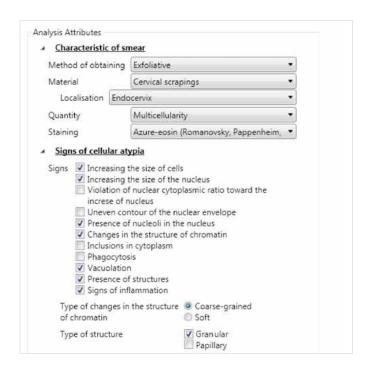
Vision Cyto® Sperm Sediment

Cytological analysis of sperm sediment

Vision Cyto®

Management and interpretation of cytological examinations

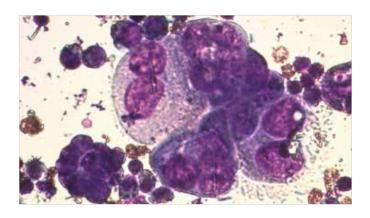




A pre-set algorithm for cytology analysis

Vision Cyto® Basic scans samples, captures the fields of view required for the analysis and presents them as a gallery.

The resulting images are then analyzed and described by a doctor using an embedded cytological examination algorithm.



Hints from the cytology atlas

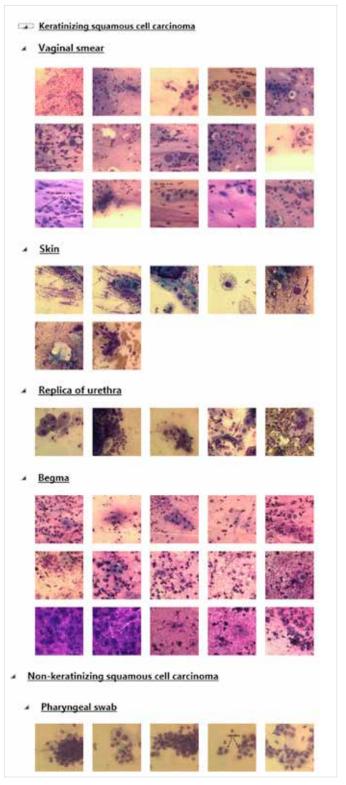
Add images with comments to the atlas for further use.

Use the atlas as a reference for cytological examinations, sharing of experience and studying.

Database for archive management

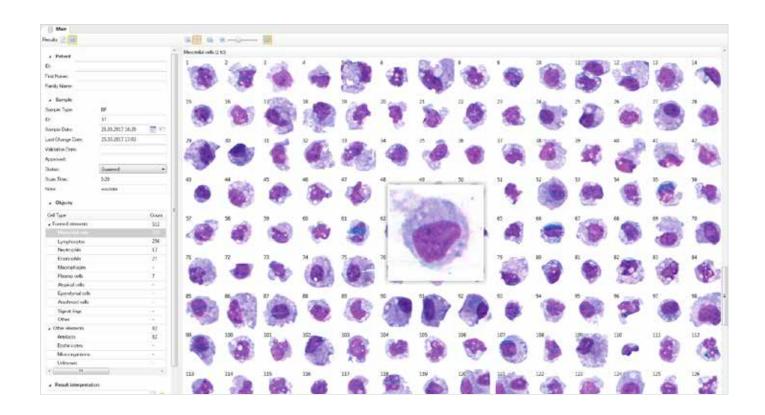
Database stores all patient and sample data as well as analysis results and reports. The data are presented in the form of patient records with attached analyses.

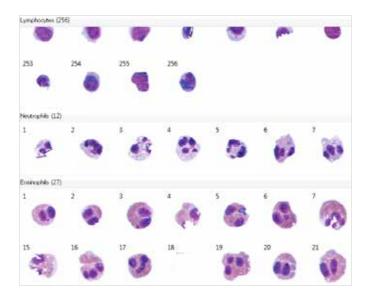
Quick evaluation of changes in analysis results of a particular patient.



Vision Cyto® Body Fluids

Automatic identification and preclassification of cells in human body fluids

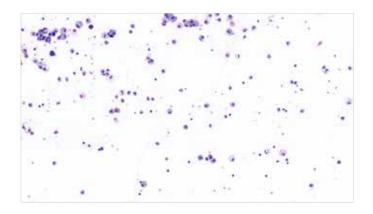


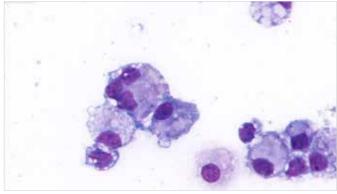


Automatic identification and preclassification of cells and elements*

Formed elements

- -Mesothelial cells
- —Lymphocytes
- -Neutrophils
- Eosinophils
- Macrophages
- —Plasma cells
- —Atypical cells
- Ependymal cells
- -Arachnoid cells
- —Signet cells



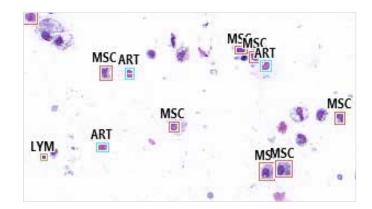


10x magnification

100x magnification

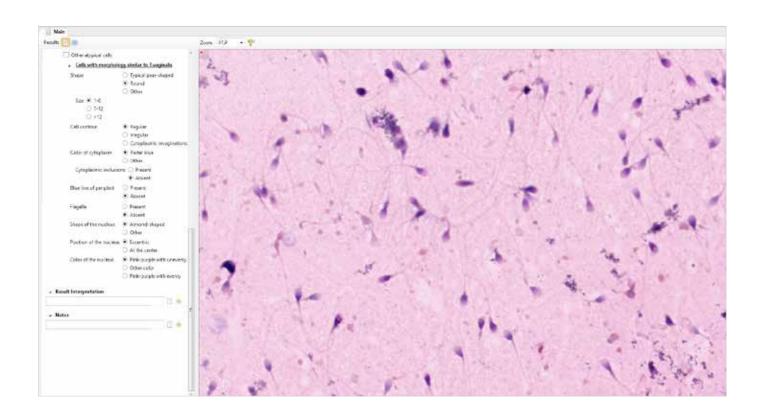
Colour indication of cell type in body fluids

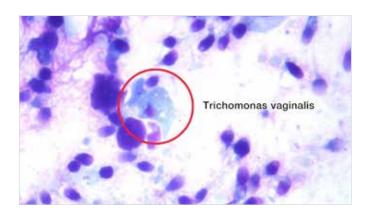
Marking a group of cells with a corresponding color.



Vision Cyto® Sperm Sediment

Cytological analysis of sperm sediment





Examination

- latent trichomoniasis
- disbiosis
- fungal infections
- HPV infections
- and etc.

A pre-set algorithm for analysis

Sperm sediment analysis algorithm for establishing a diagnosis based on cells' morphological features.

Automatic calculation of CSS (Cytology of Sperm Sediment) index

Automatic calculation of CSS index based on the found cells.

Database for archive management

Database stores all patient and sample data as well as analysis results and reports. The data are presented in the form of patient records with attached analyses.

Quick evaluation of changes in analysis results of a particular patient.

Sample Attributes	
☐ Risk indicators for T.vaginali	<u>is</u>
 Macroscopic evaluation of 	the sample
Sample background Close Granu Vitreo	ular vitreous
Microscopy of the sample	
Inflammatory response evalua	tion C Leukocytes > 3 p/HPF C Leukocytes < 3
Related microbiota evaluation	Absent Present
Presence of cells atypical for se	emen sediment ● Present (≠) ○ Absent
Cells with morphologyOther atypical cells	similar to T.vaginalis
 Cells with morpholo 	gy similar to T.vaginalis
Shape	Typical pear-shaped Round Other
Size	μм
Cell contour	Regular Irregular Cytoplasmic invaginations of macrophage engulfing type
Color of cytoplasm	Pastel blue Other
Cytoplasmic inclusion	ns O Present
	Absent
Blue line of periplast	Present Absent
Flagella	Present Absent
Shape of the nucleus	Almond-shaped Other
Position of the nucleus	Eccentric At the center
Color of the nucleus	Pink-purple with unevenly colored areas Other color Pink-purple with evenly colored areas
▲ Result Interpretation	
•	. •
▲ Notes	



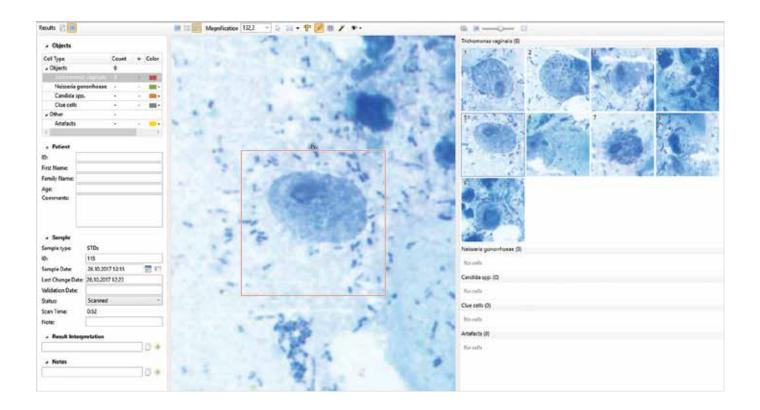
Sexually transmitted diseases

Vision Cyto® STD

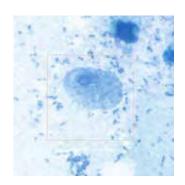
Automation of sexually transmitted diseases diagnostics

Vision Cyto® STD

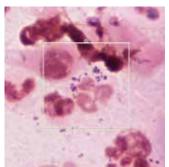
Automation of sexually transmitted diseases diagnostics



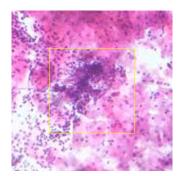
Automatic identification



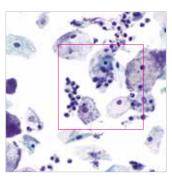
Trichomonas vaginalis



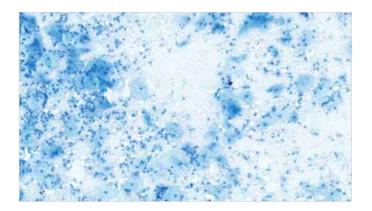
Neisseria gonorrhoeae



Candida spp.



Clue cells



Automatic scanning and creating virtual sample

Quick verification of results (validation required by a medical technologist)

Hints from the cell atlas

Add images with comments to the atlas for further use.

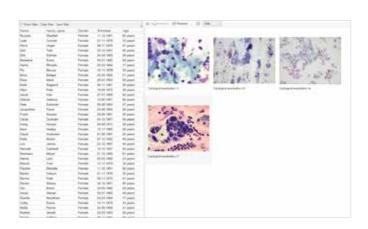
Use the atlas as a reference for sexually transmitted diseases diagnostics, sharing of experience and studying.



Database for archive management

Database stores all patient and sample data as well as analysis results and reports. The data are presented in the form of patient records with attached analyses.

Quick evaluation of changes in analysis results of a particular patient.



Cytogenetics

Vision Karyo®

Automation of karyotyping of chromosomes

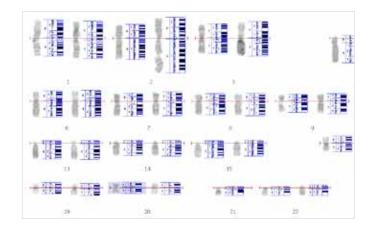
Vision FISH®

Automation of analysis using FISH method

Vision Karyo®

Automation of karyotyping of chromosomes





Karyotyping of human chromosomes

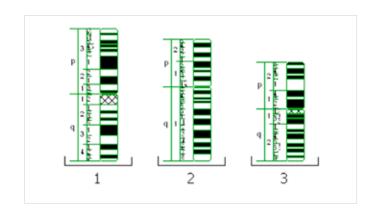
Vision Karyo® presents the changes in number and structure to the personnel issuing the analysis. After the validation, it helps the specialist to perform the diagnostic of genetic abnormalities (Down, Patau, Edwards and other syndromes).

Main features

- Karyotyping of human chromosomes for the user validation
- Separation of crossing over and of touching chromosomes
- Straightening of curved chromosomes
- Automatic and manual object selection for measurement
- Standard ideograms of different human chromosomal ISCN nomenclatures: 400, 550 or 850
- Karyotyping of animal and plant chromosomes
- Capture of metaphase plate digital samples
- —Ideogram generation for future identification of chromosomes
- Simultaneous comparison of chromosomes and ideograms
- Report generation in accordance with personal requirements

An adjustable reference guide for ideograms

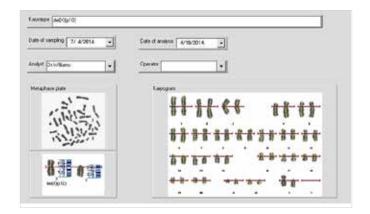
Generation of ideogram database for future identification of chromosomes. A configurable diagnosis reference guide will meet your personal requirements.



Database for archive management

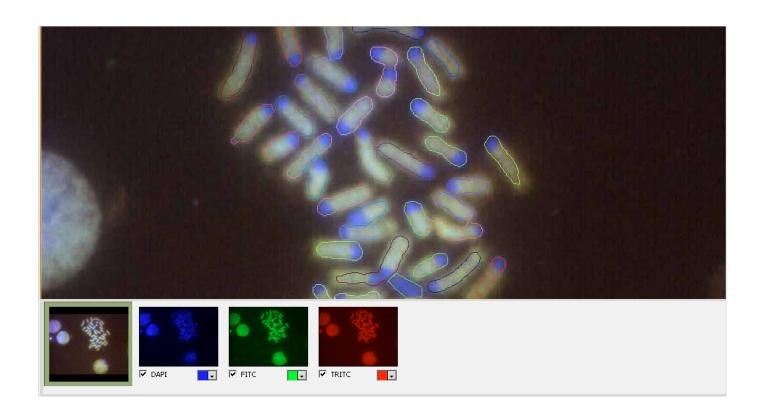
Database stores all patient and sample data as well as analysis results and reports. The data are presented in the form of patient records with attached analyses.

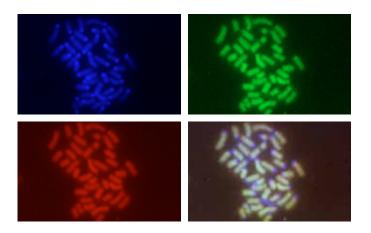
Quick evaluation of changes in analysis results of a particular patient.



Vision FISH®

Automation of analysis using FISH method





Fluorescence In Situ Hybridization

Vision FISH helps to identify specific DNA sequences directly in cytological and histological samples. System uses Fluorescence In Situ Hybridization (FISH) method for chromosome analysis.

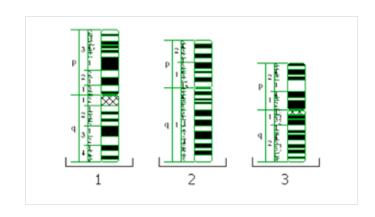
Capture a monochrome image of a metaphase plate using different fluorescence stains. The system will automatically generate a final pseudocolored image.

Main features

- Automation of analysis using FISH method
- Capture of metaphase plate digital samples
- Final pseudocolored image generation
- Detect and localize specific RNA targets (mRNA, IncRNA and miRNA) in cells, circulating tumor cells and tissue samples
- Identify specific DNA in samples

An adjustable reference guide for ideograms

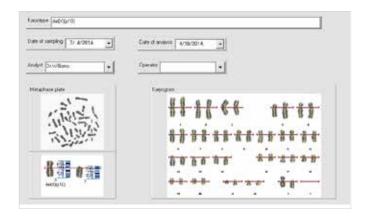
Generation of ideogram database for future identification of chromosomes. A configurable diagnosis reference guide will meet your personal requirements.



Database for archive management

Database stores all patient and sample data as well as analysis results and reports. The data are presented in the form of patient records with attached analyses.

Quick evaluation of changes in analysis results of a particular patient.



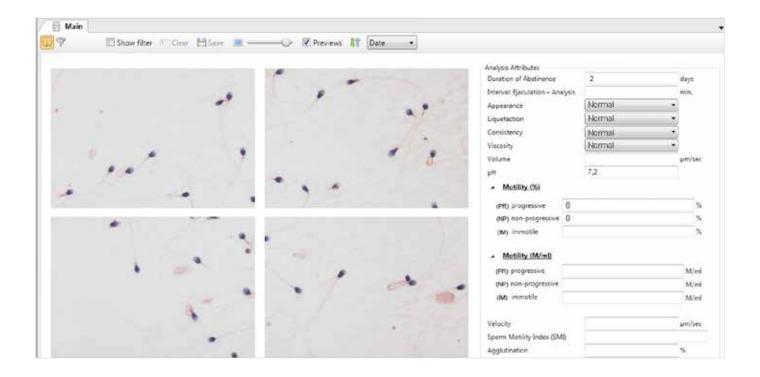
Semen analysis

Vision Sperm® Basic

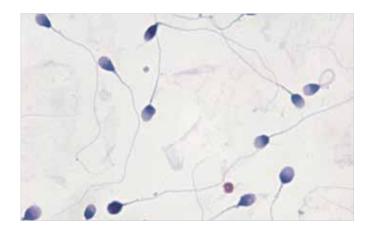
Cost-effective solution to semen analysis

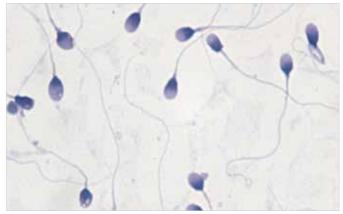
Vision Sperm® Basic

Cost-effective solution to semen analysis



Sperm microscopy and capture of a superior quality digital sample





Preset algorithm of sperm analysis by WHO

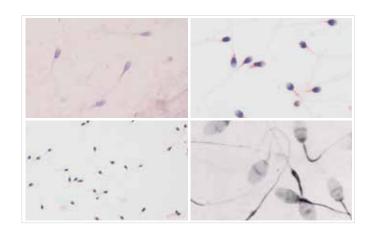
Standardized algorithm of sperm analysis completed by the user.

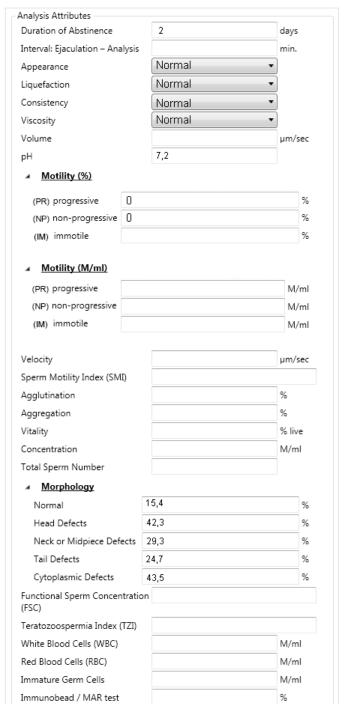
Database for archive management

Database stores all patient and sample data as well as analysis results and reports. The data are presented in the form of patient records with attached analyses.

Quick evaluation of changes in analysis results of a particular patient.

Semen objects atlas for identification, especially in difficult cases





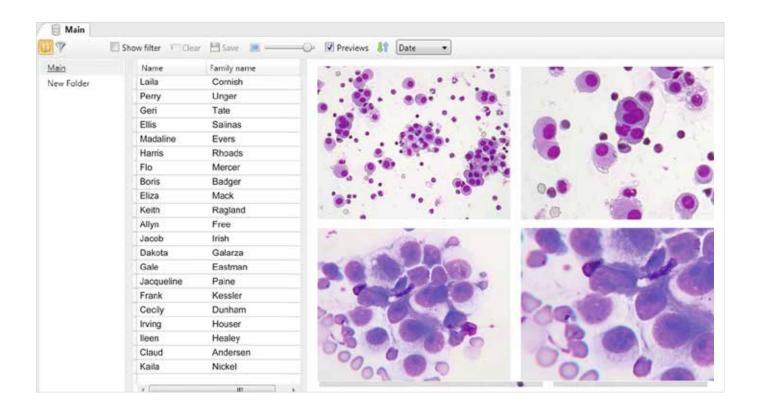
Biology and medicine

Vision Bio®

Analysis, report generation and data management in digital microscopy

Vision Bio®

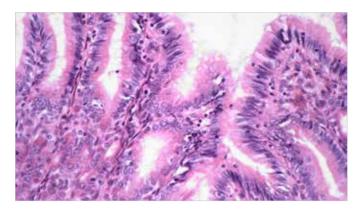
Analysis, report generation and data management in digital microscopy





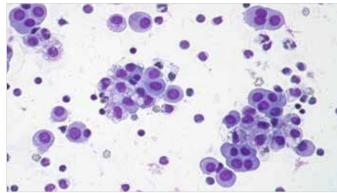
Working with images

- Select, edit, order and group comments, marks and other objects
- Text comments right on the digital image
- Various graphic elements



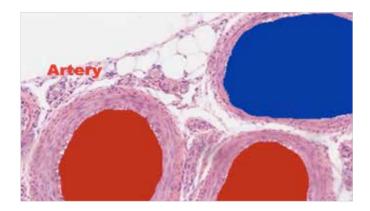
Vision Bio® Album
Visualization and data management

- Professional microscopy: miscoscopic image visualization
- Digital sample management
- Set of tools for image enhancement



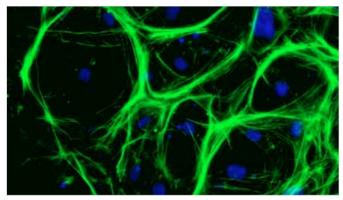
Vision Bio® Report
Digital system for research management

- Complete system for working with microscopic samples, patient data and analysis results
- Microscopic analyses are carried out in accordance with the regulatory documents
- Adaptable report generation system to fit user requirements



Vision Bio® Analyze Analysis in biology and medicine

- Analysis and classification of elements
- Analysis results are displayed in the form of histograms, charts and tables
- Calculation of optical and geometric parameters of a selected object



Vision Bio® Epi Analysis in fluorescence microscopy

- Analysis, report generation and management of virtual samples in fluorescence microscopy
- Quantitative analysis of different cytochemical and fluorescence staining techniques

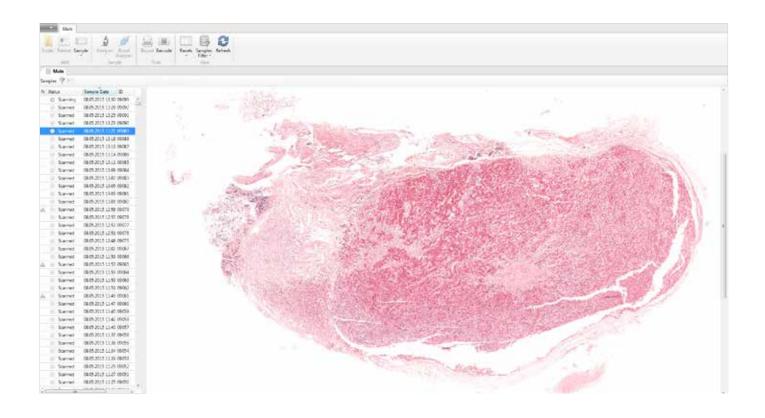
Histopathology

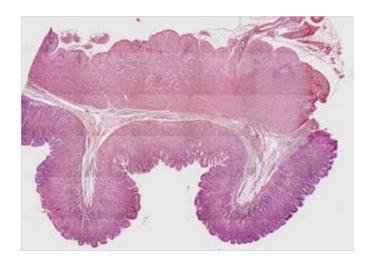
Vision Slide®

Digital slide scanners

Vision Slide®

Digital slide scanners

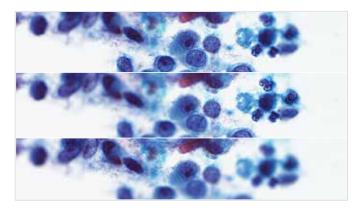




Panoramic images of complete slide area

Creation of high quality digital slides.

Exceptional quality, high definition and accurate color rendition thanks to Plan Apochromat objectives.

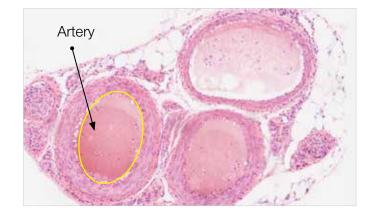


Focus: automatic, extended, range

Immersion scanning with high magnification (60x, 100x)

Working with images: select, edit, marks and text comments

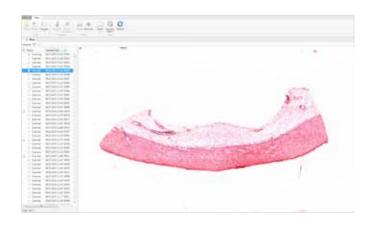
- Select, edit, order and group comments, marks and other objects
- Text comments right on the digital image
- Various graphic elements

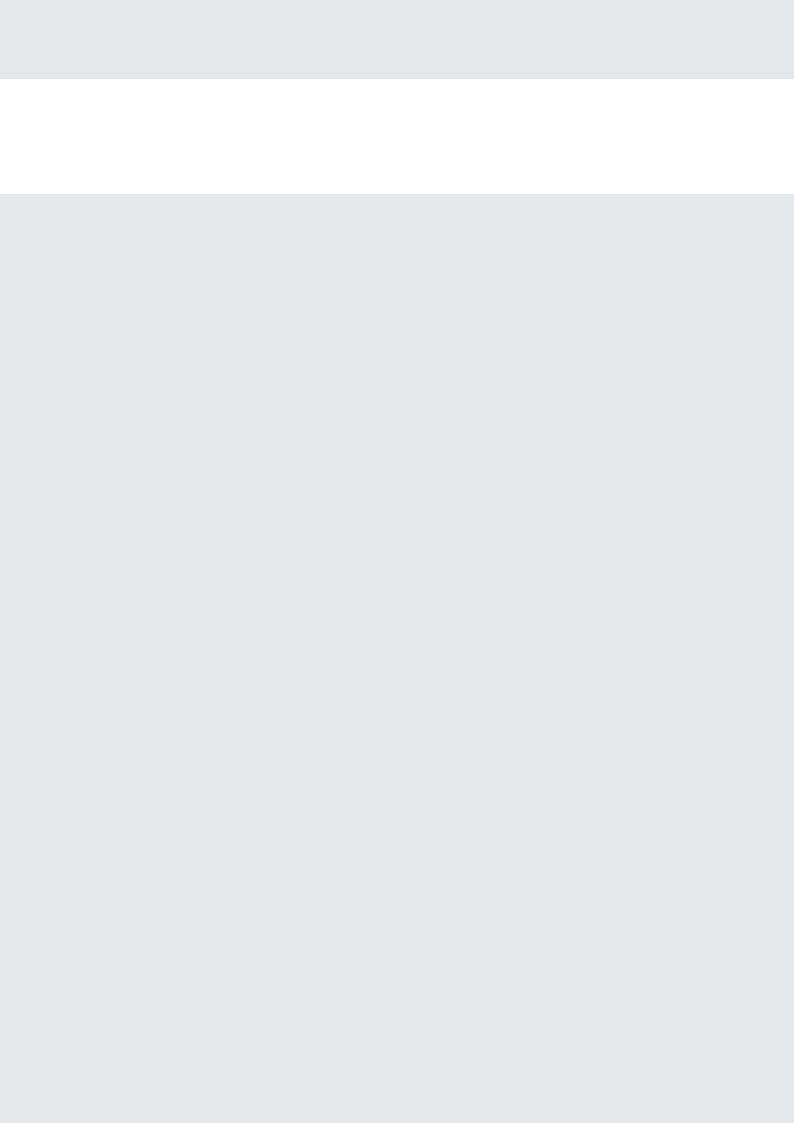


Database for archive management

Database stores all patient and sample data as well as analysis results and reports. The data are presented in the form of patient records with attached analyses.

Quick evaluation of changes in analysis results of a particular patient.





Network capabilities and solutions



Network capabilities and solutions

Vision Network

A single information environment

Vision Remote

Remote access to analysis results

Vision Network

A single information environment



Main features

- Remote consultations and expert opinions
- Remote supervision and monitoring
- Remote validation of results
- —Vision Hema systems interaction

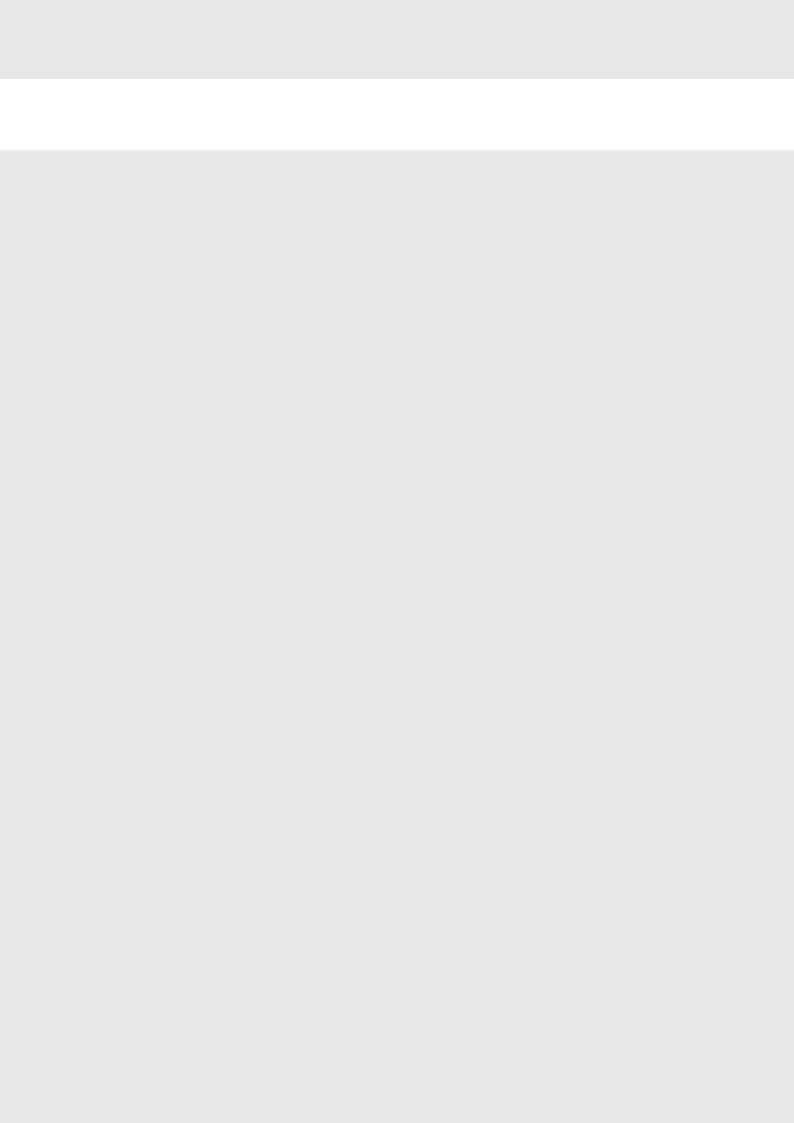
Vision Remote

Remote access to analysis results

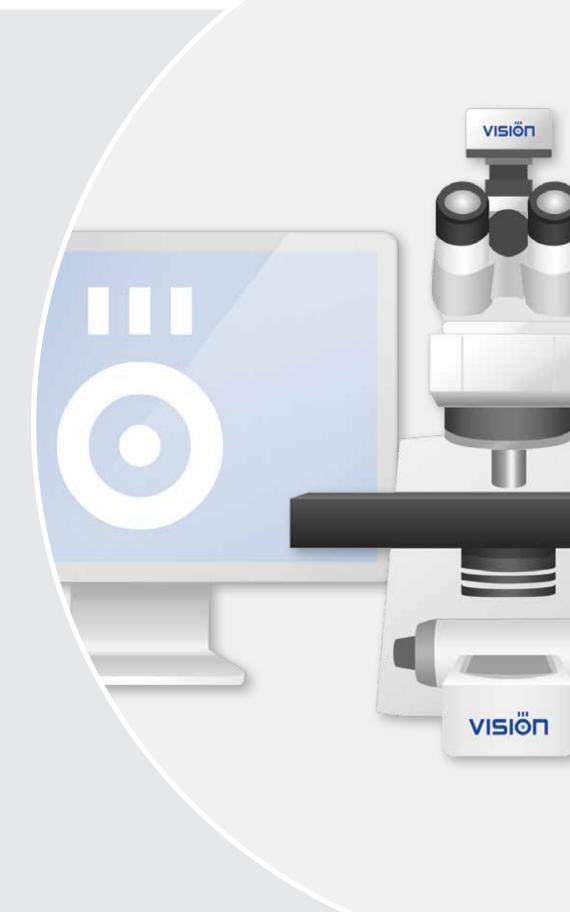


Main features

- Additional workplaces to improve efficiency
- —Increase in laboratory throughput
- —Quality control and monitoring of laboratory workflow
- —Expert opinion
- —Quick access to analysis results
- Improved cooperation and centralization of expertise



Systems



Automated systems

Vision System® Ultimate

Loading up to 200 slides simultaneously

Vision System® 8Pro

Loading 8 slides simultaneously

Vision System® 4Pro

Loading 4 slides simultaneously

Vision System® Assist

Successive slide loading by operator

Vision System® Ultimate

Loading of up to 200 slides simultaneously



Main features

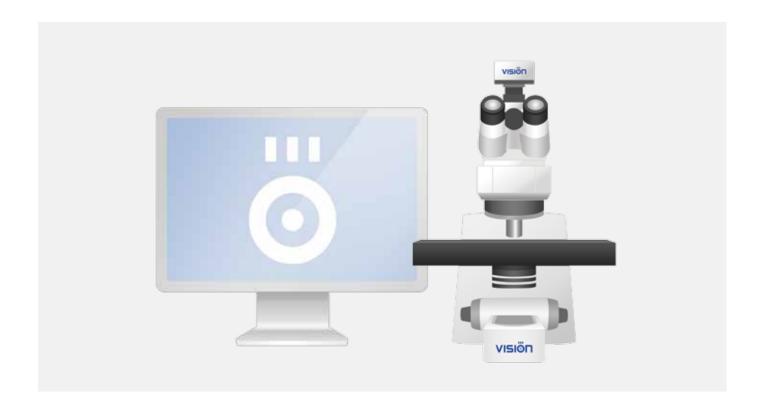
- Automatic scanning
- Loading 200 slides simultaneously
- Throughput up to 30 samples per hour (for CBC sample)
- Scanning series of slides without the constant presence of the operator

Specification

	Key benefits
Working modes Capacity Slide handling Immersion oil dispensing Slide identification	 — Queue, continuous, random access, STAT testing, 24/7 — Up to 200 slides — Automatic — Automatic — Barcode-labeled/manual
	System components
Contents	Scanning microscope, automatic slide loader, built-in barcode reader, automatic oil dispenser, PC, touch-screen monitor for control, monitor for validation, Vision software, Vision Remote software, instrument for preparation of smears, printer for barcode label printing, starter service kit
	Technical specifications
Simultaneous loading Barcode support Optical system Microscopic slides Immersion oil Communication Database Power supply Work temperature Acceptable relative humidity	 Up to 200 slides, 4 cassettes for 50 slides each 1D, 2D, QR 10x, 50x Oil, 100x Oil Standard 75×25 mm, 1.1 mm thick Automatic dispensing. A bottle of oil is enough for up to 1000 slides Bi-directional LIS, LIS2-A2 (ASTM), HL7, Ethernet Multiple systems can share one database; archiving of results via transfe to external storage media 110-240 V / 50-60 Hz 15-30 °C 20-80 %
	Additional
Equipment and accessories	Immersion oil, microscopic slides, external barcode reader, printer for barcode label printing, barcode labels, automatic stainer

Vision System® 8Pro

Loading 8 slides simultaneously



Main features

- Automatic scanning
- Loading 8 slides simultaneously
- Throughput up to 20 samples per hour (for CBC sample)
- Scanning series of slides without the constant presence of the operator

	Key benefits
Working modes Capacity	— Queue, random access, STAT testing, 24/7— Up to 8 slides in a cassette
Slide handling	— Manual via cassette replacement, 2 cassettes in the package
Immersion oil dispensing	— Manual, automatic (optional)
Slide identification	— Barcode-labeled/manual
	System components
Contents	Scanning microscope, built-in barcode reader (optional), automatic oil dispenser (optional), PC, monitor, Vision software
	Technical specifications
Simultaneous loading	— Up to 8 slides
Barcode support	— 1D, 2D, QR (optional)
Optical system	— 10x, 40x Oil, 100x Oil
Microscopic slides	— Standard 75×25 mm, 1.1 mm thick
Immersion oil	—Automatic dispensing. A bottle of oil is enough for up to 1000 slides (optional)
Communication	— Bi-directional LIS, LIS2-A2 (ASTM), HL7, Ethernet
Database	Multiple systems can share one database; archiving of results via transfer to external storage media
Power supply	— 110–240 V / 50–60 Hz
Work temperature	—15–30 °C
Acceptable relative humidity	— 20–80 %
	Additional
Equipment and accessories	Immersion oil, microscopic slides, external barcode reader, printer for barcode label printing, barcode labels, automatic stainer

Vision System® 4Pro

Loading 4 slides simultaneously

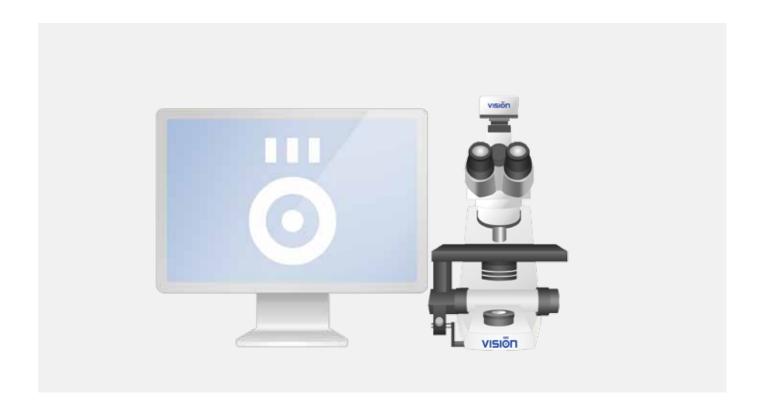


- Automatic scanning
- Loading 4 slides simultaneously
- —Throughput up to 15 samples per hour (for CBC sample)
- Scanning series of slides without the constant presence of the operator

	Key benefits
Working modes Capacity Slide handling Immersion oil dispensing Slide identification	 — Queue, random access, STAT testing, 24/7 — Up to 4 slides in a holder — Manual via slide replacement — Manual — Manual
	System components
Contents	Scanning microscope, PC, monitor, Vision software
	Technical specifications
Simultaneous loading Optical system Microscopic slides Communication Database Power supply Work temperature Acceptable relative humidity	 Up to 4 slides 10x, 50x Oil, 100x Oil Standard 75×25 mm, 1.1 mm thick Bi-directional LIS, LIS2-A2 (ASTM), HL7, Ethernet Multiple systems can share one database; archiving of results via transfer to external storage media 110-240 V / 50-60 Hz 15-30 °C 20-80 %
	Additional
Equipment and accessories	Immersion oil, microscopic slides, external barcode reader, printer for barcode label printing, barcode labels, automatic stainer

Vision System® Assist

Successive slide loading by operator



- Automatic scanning
- Successive slide loading by operator
- —Throughput up to 20 samples per hour (for CBC sample)
- Creating virtual samples

	Key benefits
Working modes Capacity	— Random access, 24/7— One slide in a microscope
Slide handling	— Manual, successive
Immersion oil dispensing	— Manual
Slide identification	— Manual
	System components
Contents	Scanning microscope, PC, monitor, Vision software
	Technical specifications
Simultaneous loading	—1 slide
Optical system	— 10x, 50x Oil, 100x Oil
Microscopic slides	— Standard 75×25 mm, 1.1 mm thick
Communication	- Bi-directional LIS, LIS2-A2 (ASTM), HL7, Ethernet
Database	 Multiple systems can share one database; archiving of results via transfer to external storage media
Power supply	— 110–240 V / 50–60 Hz
Work temperature	—15–30 °C
Acceptable relative humidity	— 20–80 %
	Additional
Equipment and accessories	Immersion oil, microscopic slides, external barcode reader, printer for barcode label printing, barcode labels, automatic stainer

Semi-automated system

Vision System® Basic

Successive slide loading

Vision System® Basic

Successive slide loading



- Manual field of view selection
- Successive slide loading by operator
- Throughput up to 10 samples per hour (for CBC sample)

	Key benefits
Working modes	— Random access, 24/7
Capacity	— One slide in a microscope
Slide handling	— Manual, successive
Immersion oil dispensing	— Manual
Slide identification	— Manual
	System components
Contents	Scanning microscope, PC, monitor, Vision software
	Technical specifications
Simultaneous loading	— 1 slide
Optical system	— 10x, 40x Oil, 100x Oil
Microscopic slides	— Standard 75×25 mm, 1.1 mm thick
Communication	- Bi-directional LIS, LIS2-A2 (ASTM), HL7, Ethernet
Database	 Multiple systems can share one database; archiving of results via transfe to external storage media
Power supply	— 110–240 V / 50–60 Hz
Work temperature	—15–30 °C
Acceptable relative humidity	—20–80 %
	Additional
Equipment and accessories	Immersion oil, microscopic slides, external barcode reader, printer for barcode label printing, barcode labels, automatic stainer

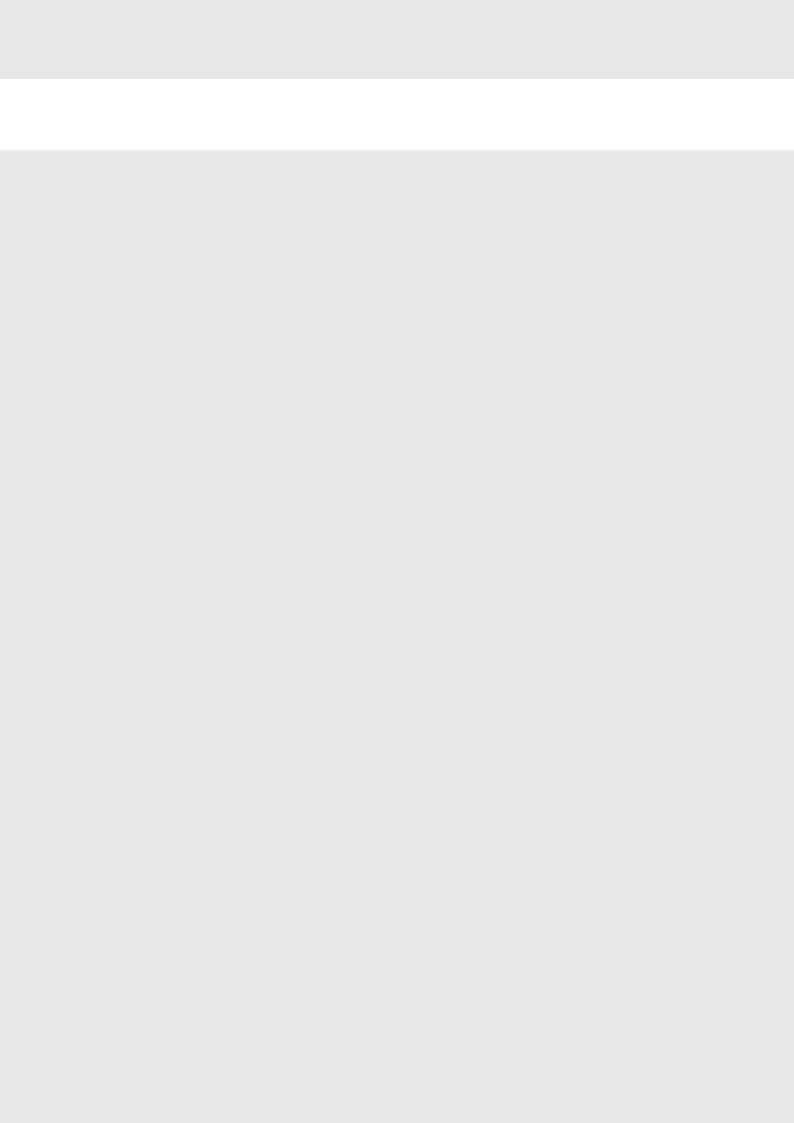
Products / systems

Table matching products and systems

		Ultimate
Hematology	Vision Hema®	✓
Bone marrow analysis	Vision Hema® Bone Marrow	✓
Malaria	Vision Hema® Malaria	✓
Oncogynecology	Vision Cyto® Pap	✓
Cytology	Vision Cyto®	✓
	Vision Cyto® Body Fluids	✓
	Vision Cyto® Sperm Sediment	✓
Sexually transmitted diseases	Vision Cyto® STD (Coming soon)	✓
Cytogenetics	Vision Karyo®	
	Vision FISH®	
Semen analysis	Vision Sperm®	
Biology and medicine	Vision Bio®	
Histopathology	Vision Slide®	✓

Vision System®

8Pro	4Pro	Assist	Basic
✓:	✓	✓	✓.
✓:	✓	✓	
×.	✓	×.	
×	✓	₹	
×	×	✓	×
×.	×	✓	✓.
✓.	×	✓	✓.
*	✓	✓	✓.
			×.
			✓.
			✓.
			✓.
×.	V	✓	



Slide staining



Automated slide stainers

V-Chromer® I

Automated stainer

V-Chromer® II

Automated MGG and Gram stainer

V-Chromer® III

Automated stainer

V-Chromer® I

Automated stainer



- Stainer for reagents of various manufacturers
- Staining protocols: May Grünwald Giemsa, Ziehl-Neelsen, Gram and others
- Protection of personnel due to a charcoal filter that neutralizes evaporations and odours
- Minimal reagent consumption
- Protecting the environment due to waste collection in a special container
- —Doesn't require exhaust hood
- Doesn't require connection to water supply and drainage system

Reagents	open stainer to work with reagents of various manufacturers	
Software	staining protocol is transferred to the instrument via smart card	
User interface	user panel: 4 keys (Esc, ↑, ↓, OK)	
Display	LCD alphanumeric display, 4 lines	
Throughput	up to 100 slides per hour	
Reagent vessels	5 positions with lids, volume 250 ml	
Washing station	vessel with automatic filling/draining system	
Drying station	vessel with hot air ventilation	
Drop protection	built-in drip system with drying plates for drop collection, reducing contamination of reagents	
Drainage of reagents	automatic draining of reagents used	
Water supply	not required, adding and draining of the washing fluid via external containers	
Reagent protection from evaporation	reagent vessels are closed, open only when in use	
Absorption of evaporation/filtration	built-in absorbance system of evaporation/odour using a charcoal filter	
Power	220 ± 10 % V, 50 Hz	
Power consumption	120 W	
Size	500x450x450 mm	
Weight	12 kg	
Components	V-Chromer® I stainer, slide holder, vessel for stainer (5 pcs.), vessel for water, vessel for drying, carbon filter, drying plate	

V-Chromer® II

Automated MGG and Gram stainer



- Ready-to-use V-Stain® reagents
- Pre-programmed standardized May Grünwald Giemsa and Gram staining protocols
- Protection of personnel due to a charcoal filter that neutralizes evaporations and odours
- Minimal reagent consumption
- Protecting the environment due to waste collection in a special container
- —Doesn't require exhaust hood
- —Doesn't require connection to water supply and drainage system

Reagents	closed system. Works only with ready-to-use V-Stain® reagent kits	
Software	staining protocol is transferred to the instrument via smart card	
User interface	user panel: 4 keys (Esc, ↑, ↓, OK)	
Display	LCD alphanumeric display, 4 lines	
Throughput	up to 100 slides per hour	
Reagent vessels	4 positions with lids, volume 250 ml	
Washing station	vessel with automatic filling/draining system	
Drying station	vessel with hot air ventilation	
Drop protection	built-in drip system with drying plates for drop collection, reducing contamination of reagents	
Drainage of reagents	automatic draining of reagents used	
Water supply	not required, adding and draining of the washing fluid via external containers	
Reagent protection from evaporation	reagent vessels are closed, open only when in use	
Absorption of evaporation/filtration	built-in absorbance system of evaporation/odour using a charcoal filter	
Power	220 ± 10 % V, 50 Hz	
Power consumption	120 W	
Size	500x450x450 mm	
Weight	12 kg	
Components	V-Chromer® II stainer, slide holder, vessel for water, vessel for drying, carbon filter, drying plate	

V-Chromer® III

Automated stainer



- Standardized staining protocols
- Simultaneous loading of various slide racks
- Simultaneous staining according to various staining protocols
- Open system for work with reagents of various manufacturers
- Instrument screen to monitor continuously the staining process
- Evaporations and odours are neutralized due to charcoal filter
- No exhaust hood required
- High throughput staining

Staining capacity	5 slide racks simultaneously depending on programs, load frequency and instrument configuration. Simultaneous staining according to various staining protocols
Slide rack capacity	30 slides
Number of programs	up to 20 programs, up to 50 steps each
Number of reagents	up to 52 (32 preprogrammed reagents and 20 user-specified)
Immersion time	from 1 sec to 59 minutes 59 sec per step
Total stations	20
Reagent stations	up to 19
Reagent stations volume	300 ml
Wash stations	up to 3
Loading stations	up to 2
Unloading stations	up to 3
Drying stations	1, temperature 30 to 70 °C
Removal of hazardous fumes	fume extraction fan with charcoal filter
Nominal voltage	100-240 VAC / 50-60 Hz
Battery autonomy	up to 2 hours
Dimensions, Weight	1200x440x368 mm, 55 Kgs





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www.westmedica.com www.wm-vision.com



 * pre-classification request user validation

We reserve the right to change the specification without notice.

Dealer

Rev 8.0/11.2017 EN

