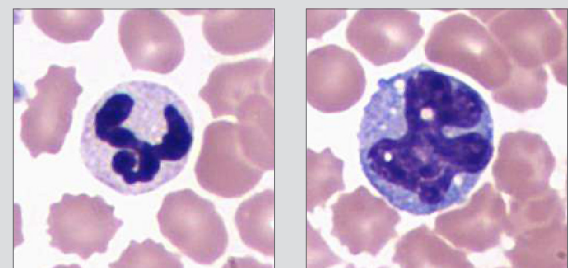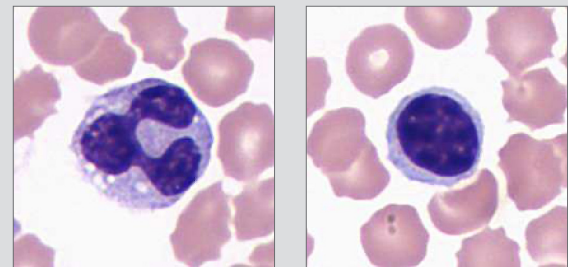# Animal blood cells analysis automation
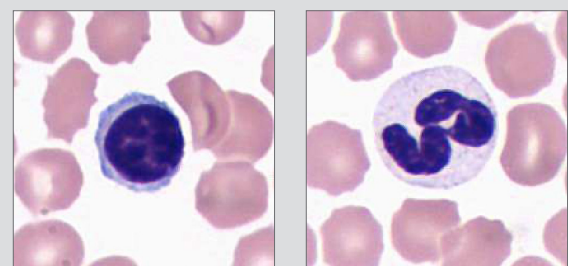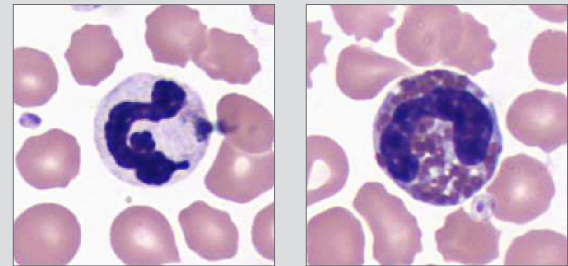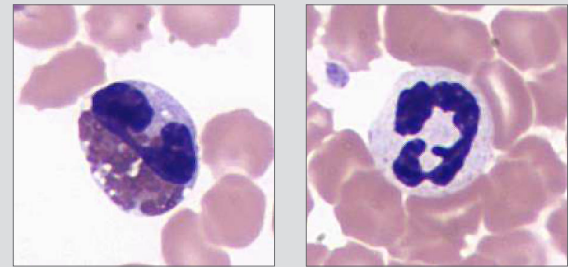
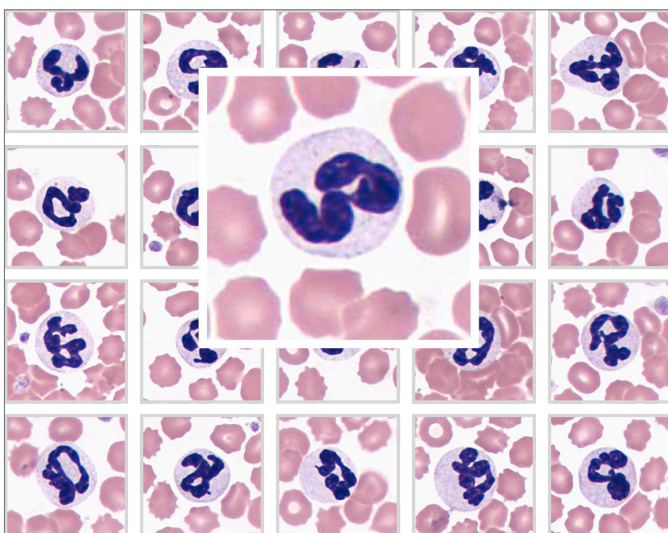# Automatic animal blood cells analysis
Vision Hema Vet

Cell Type	Count	%
⊿ Leukocytes	98	100
Basophils	-	-
Eosinophils	-	-
Promyelocytes	-	-
Myelocytes	-	-
Metamyelocytes	-	-
Band neutrophils	-	-
Segmented neutrophils	83	84,7
Lymphocytes	9	9,2
Monocytes	6	6,1
Plasma cells	-	-
Reactive lymphocytes	-	-
Large granular lymphocytes	-	-
Prolymphocytes	-	-
Atypical lymphocytes	-	-
Blasts	-	-
Sezary cells	-	-
Hairy cells	-	-
Unknown	-	-
⊿ Non-WBC		-
Artefacts	3	3,1
Smudge cells	4	4,1
Erythroblasts (NRBC)	-	-
Giant platelets	-	-
Platelets aggregations	-	-
Megakaryocytes	-	-

Total: 4874

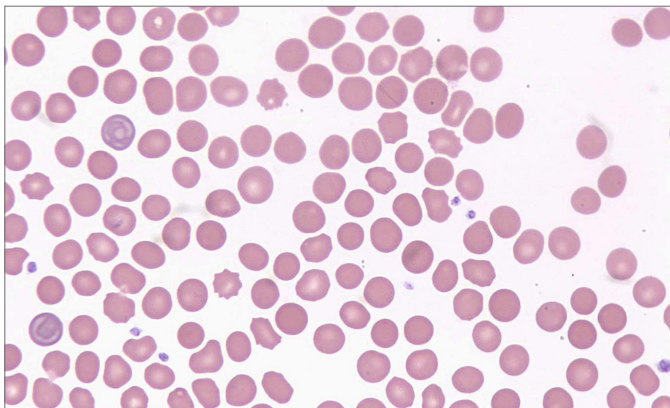Lymphocytes (9)

Monocytes (6)

Dog blood cells

Identification and pre-classification of leucocytes

— Basophils
— Eosinophils
— Promyelocytes
— Myelocytes
— Metamyelocytes
— Band neutrophils
— Segmented neutrophils
— Lymphocytes
— Monocytes
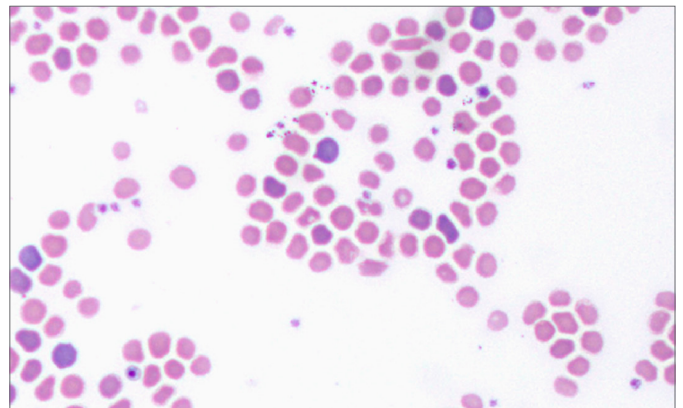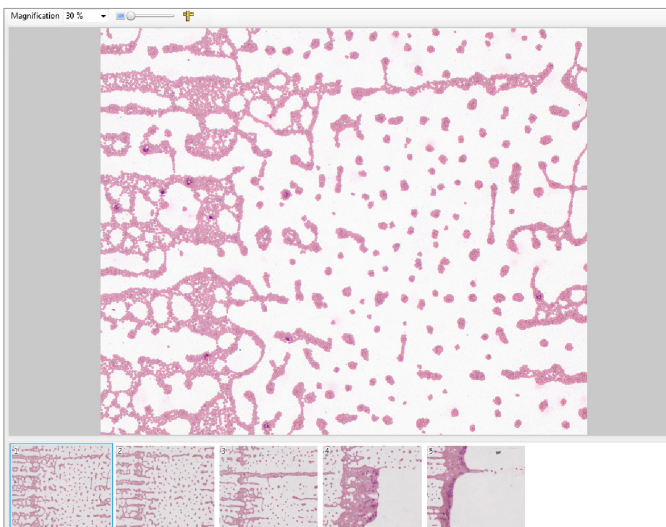— Reactive lymphocytes
— Blasts
— Erythroblasts
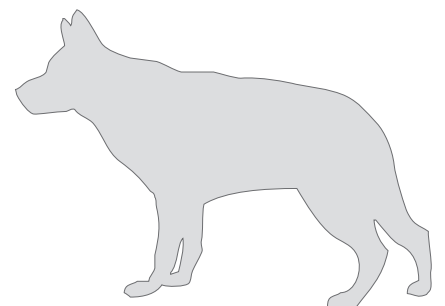
Analysis of erythrocytes

— Size
— Color
— Shape
— Inclusions

Analysis of platelets

— Normal
— Micro
— Macro

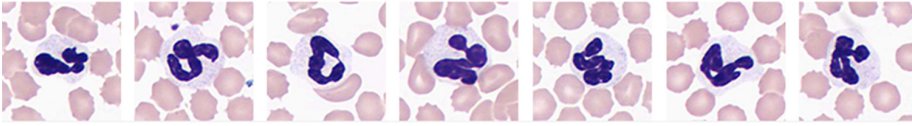## Scanning of blood smear tail

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

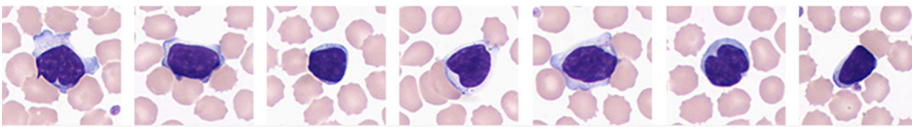# Animal blood cells identification
Dogs, cats, mice, rabbits, goats, monkeys, elephants and others

Animal blood cells

Segmented neutrophils (8)

Lymphocytes (8)

Monocytes (4)

Cat

Segmented neutrophils (8)

Lymphocytes (8)

Monocytes (4)

Mouse

Lymphocytes (8)
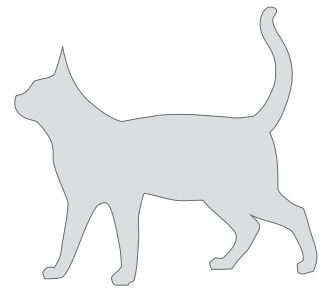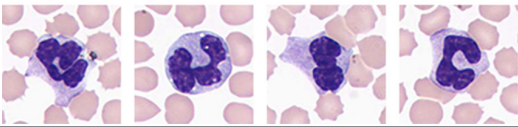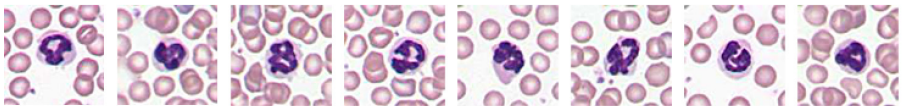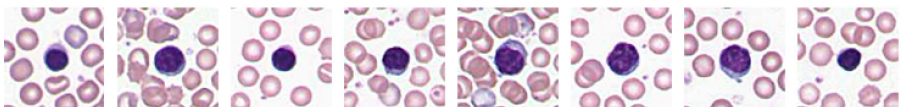
Rabbit

Segmented neutrophils (8)

Lymphocytes (8)

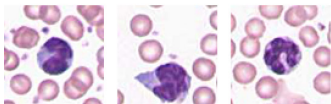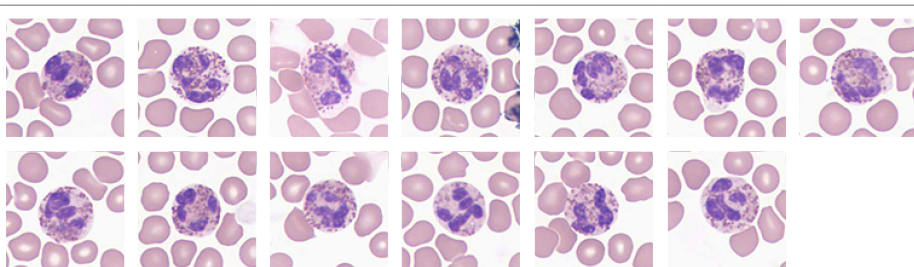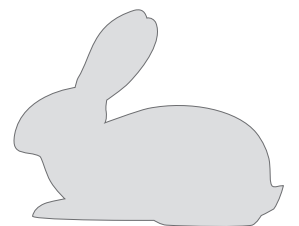Monocytes (4)

Goat

Basophils (1)

Eosinophils (7)

Band neutrophils (3)

Monkey

Lymphocytes (8)

Monocytes (14)
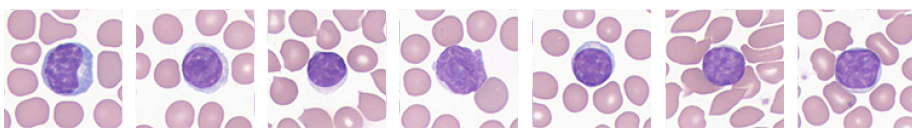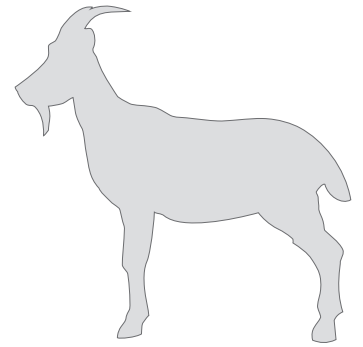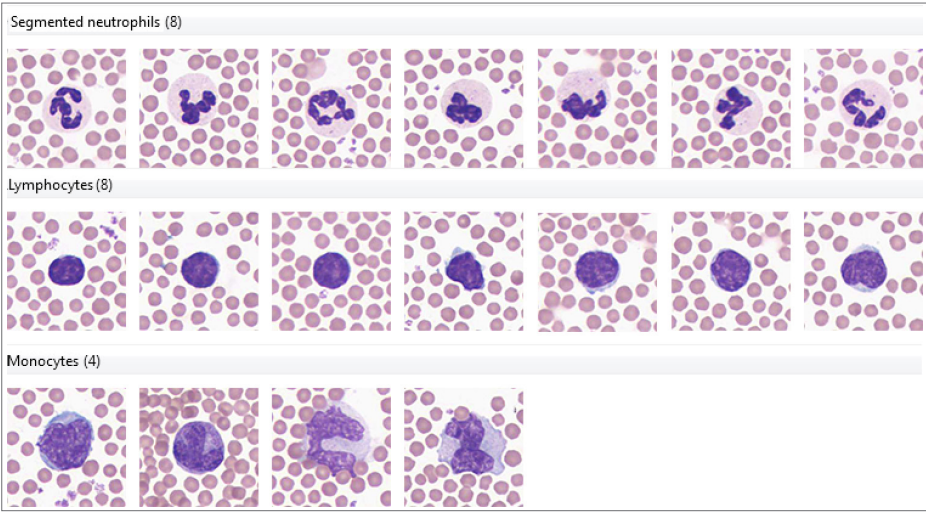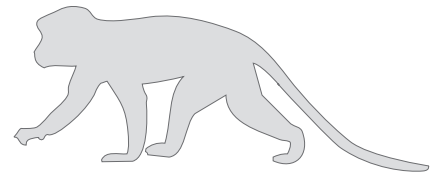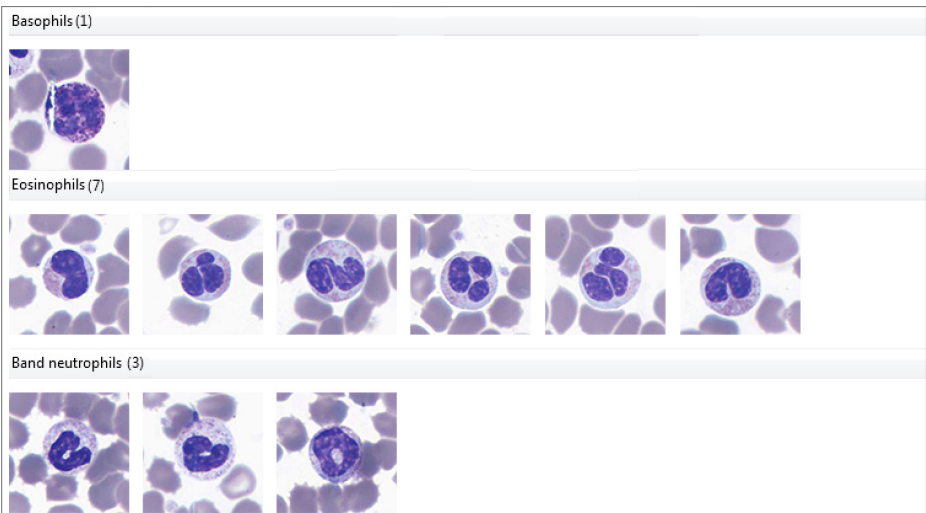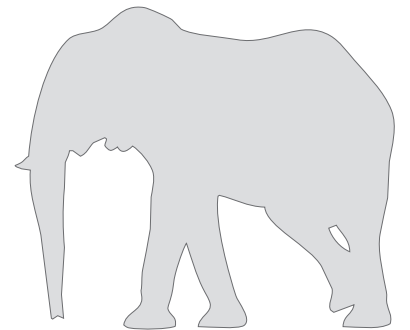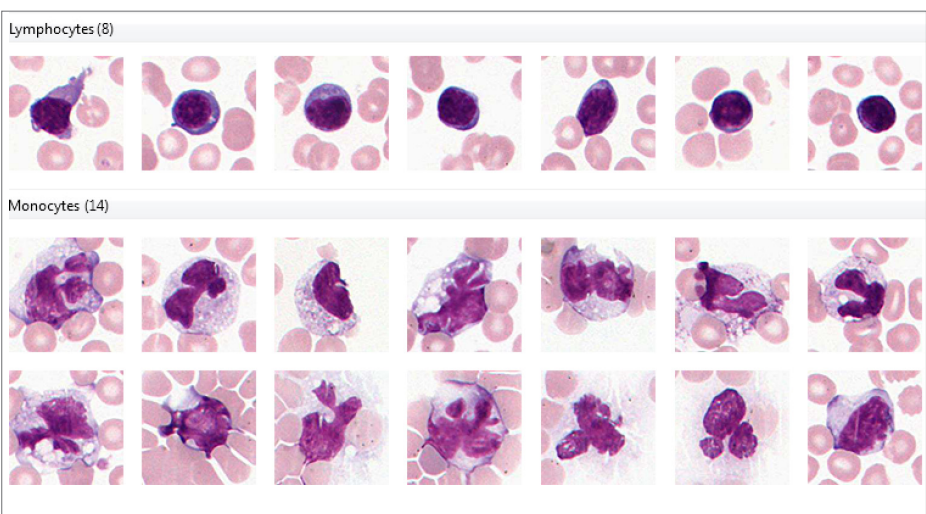
Elephant

Additional modules
Vision Extended RBC Vet
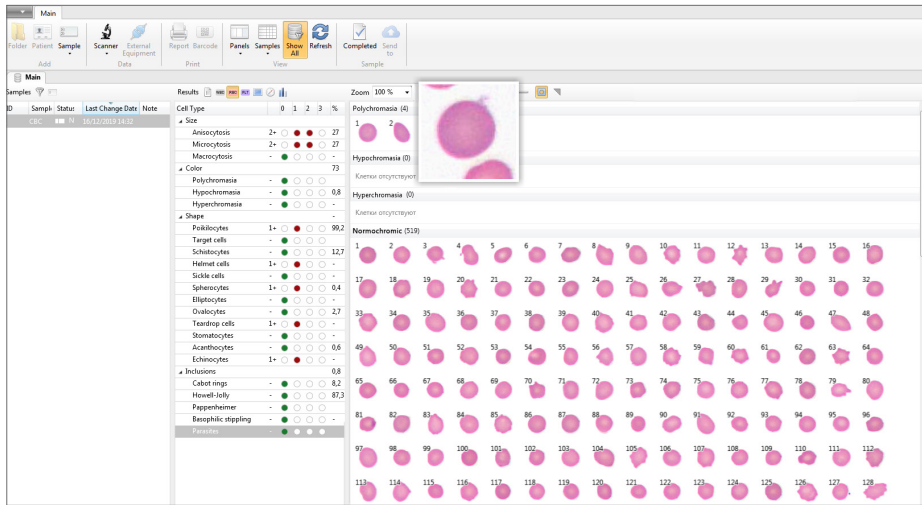
Automatic identification of erythrocytes by size, color, forms and inclusions. Pre-classification of erythrocytes by 21 parameters. Detailed information of every erythrocyte.

Vision Extended PLT Vet
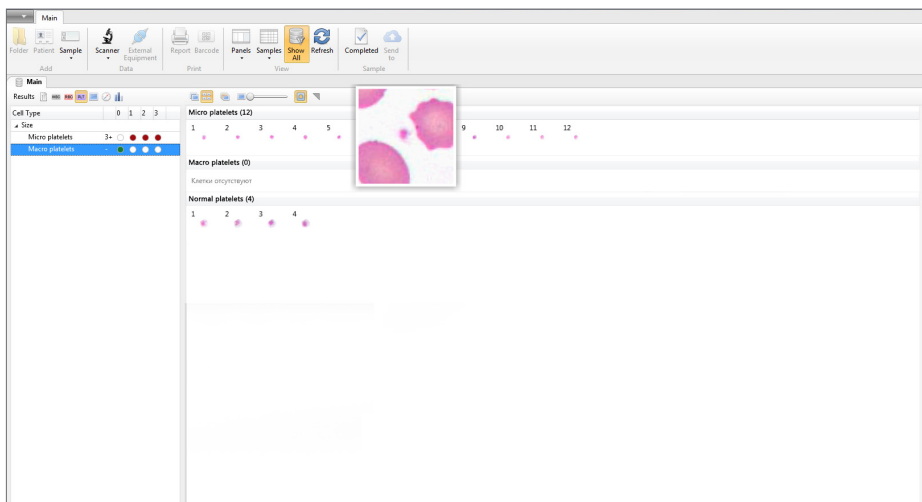
Automatic identification and pre-classification of platelets by 3 parameters: micro, macro, normal. Detailed information of every platelet.

Artificial intelligence

Artificial intelligence (AI) cumulates algorithms and technologies that allow computers to learn and solve intellectual tasks provided by humans.

AI speeds up processing and interpretation of data, and allows to efficiently perform the most comprehensive tasks, including medical image analysis.

Administrative Modules

Vision Manager
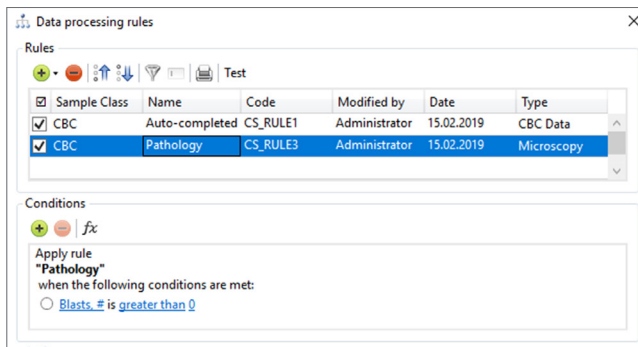
Analysis procedure automation, data processing rules.

Vision Remote
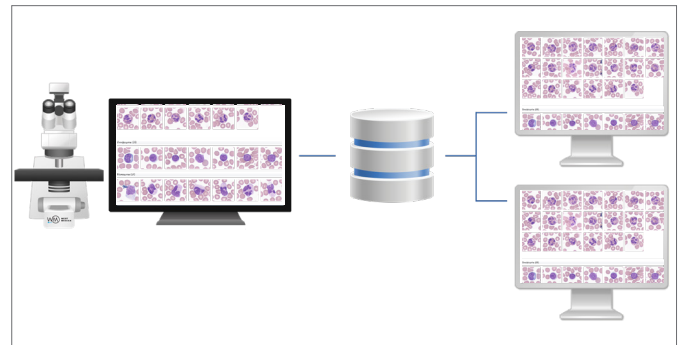
Remote workplace

Consulting and Education Modules

Vision Suite
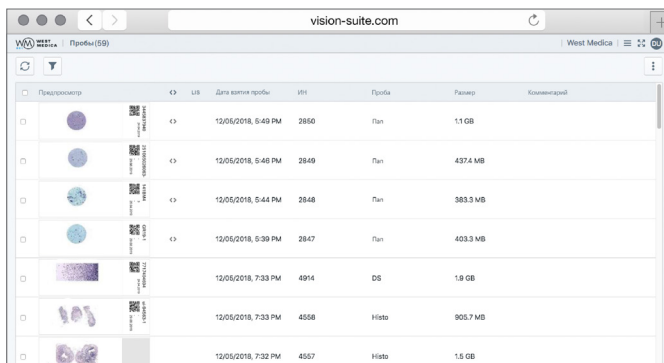
Cloud/server for telemedicine and remote consultations with colleagues.

Vision Expertise
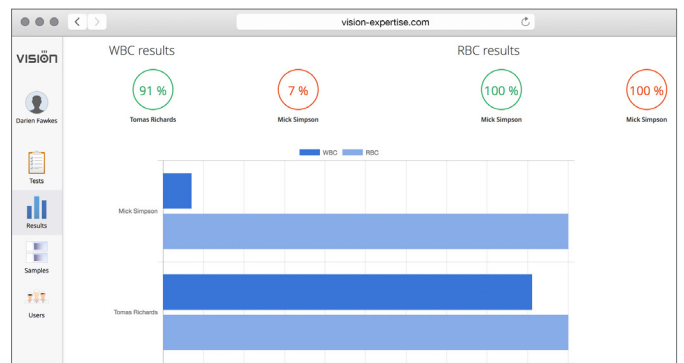
Online testing and quality control.

Clinical applications

The latest developments of artificial intelligence provide a solution for the tasks connected with automation in digital microscopy.

Our technologies speed up the diagnostic process, reduce analysis time and lower subjectivity of the results received.

They improve the efficiency of laboratory routine operation, bringing microscopy analyses in line with state-of-the-art standards.

Specifications

Vision Basic Cell Imaging Analyzer	Vision Assist Cell Imaging Analyzer	Vision Pro Cell Imaging Analyzer	Vision Ultimate Cell Imaging Analyzer
Application module: **Vision Hema Vet**	Application module: **Vision Hema Vet**	Application module: **Vision Hema Vet**	Application module: **Vision Hema Vet**
Additional modules: **Vision Extended RBC Vet** **Vision Extended PLT Vet**	Additional modules: **Vision Extended RBC Vet** **Vision Extended PLT Vet**	Additional modules: **Vision Extended RBC Vet** **Vision Extended PLT Vet**	Additional modules: **Vision Extended RBC Vet** **Vision Extended PLT Vet**
Working modes: manual slide scanning	Working modes: queue (only 4 slides version)	Working modes: queue, random access	Working modes: queue, continuous and random access, STAT testing, 24/7
Manual scanning	Automatic scanning	Automatic scanning	Automatic scanning
1 slide	1 or 4 slides	8 slides	Up to 200 slides
Manual slide handling	Manual slide handling	2 cassettes with slides	Automatic slide handling
Microscope	Microscope for scanning	Microscope for scanning	Microscope for scanning
Personal computer	Personal computer	Personal computer	Personal computer
Monitor	Monitor	Monitor	Monitor
—	—	—	Touch-screen monitor for control
—	—	Built-in barcode reader (optional)	Built-in barcode reader
—	—	Automatic oil dispenser (optional)	Automatic oil dispenser
Optical system: 10x, 50x Oil, 100x Oil	Optical system: 10x, 50x Oil, 100x Oil	Optical system: 10x, 60x Oil, 100x Oil	Optical system: 10x, 50x Oil, 100x Oil
Bright field	Bright field	Bright field	Bright field
Köhler illumination, LED	Köhler illumination, LED	Köhler illumination, LED	Köhler illumination, LED
Bidirectional LIS, LIS2-A2 (ASTM), HL7, Ethernet	Bidirectional LIS, LIS2-A2 (ASTM), HL7, Ethernet	Bidirectional LIS, LIS2-A2 (ASTM), HL7, Ethernet	Bidirectional LIS, LIS2-A2 (ASTM), HL7, Ethernet
Art. N.: 64030.06.001 (1 slide)	Art. N.: 71150.06.001 (1 slide) Art. N.: 71450.06.001 (4 slides)	Art. N.: 72852.06.001 (8 slides)	Art. N.: 73011.06.001 (200 slides)

We reserve the right to change specification without notice.

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