

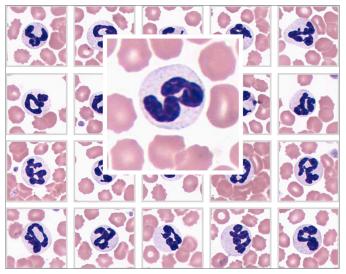
Digital Microscopy and Al Clinical and Research Applications

# Animal blood cells analysis automation



### Automatic animal blood cells analysis Vision Hema Vet

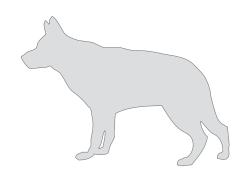
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5042 🔗 Scanned	CBC 24.09.20	19 16:35	Artefacts	3	3,1			
5041 🔗 Scanned	CBC 24.09.20	19 16:33	Smudge cells	4	4,1			
5040 🔗 Scanned	CBC 24.09.20	19 16:32	Erythroblasts (NRBC)		-		Monocytes (6)	
5039 🔗 Scanned	CBC 24.09.20	19 16:31	Giant platelets		-			
5038 🔗 Scanned	CBC 24.09.20	19 16:32	Platelets aggregations		-		- CO.+	03
5037 🔗 Scanned	CBC 24.09.20	19 16:30	Megakaryocytes		-			
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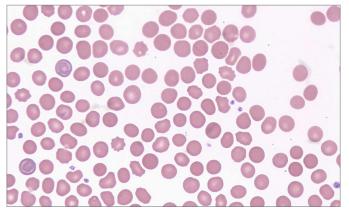


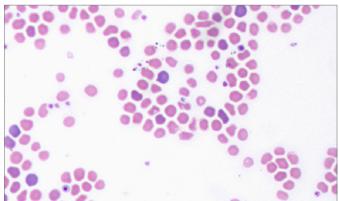
Dog blood cells

#### Identification and pre-classification of leucocytes

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





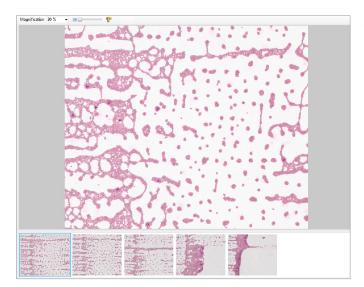


#### Analysis of erythrocytes

- Size
- Color
- Shape
- Inclusions

#### Analysis of platelets

- Normal
- Micro
- Macro



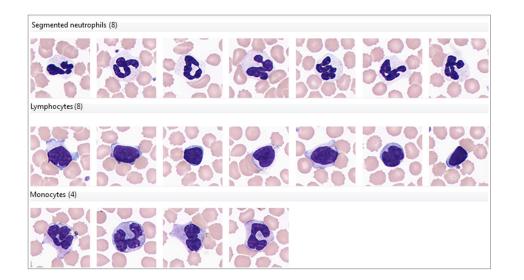
#### Scanning of blood smear tail

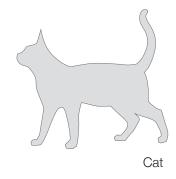
- Additional assessment of atypical forms of leukocytes
- Assessment of platelet aggregations

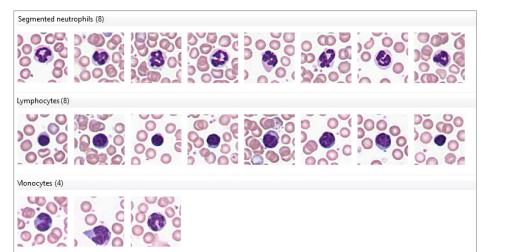
Animal blood cells identification

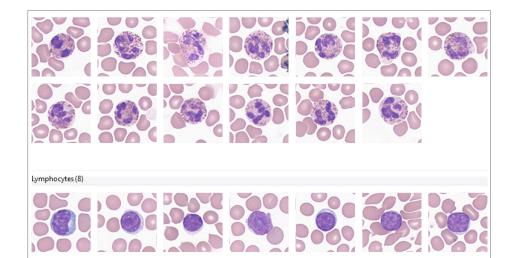
Dogs, cats, mice, rabbits, goats, monkeys, elephants and others

### Animal blood cells







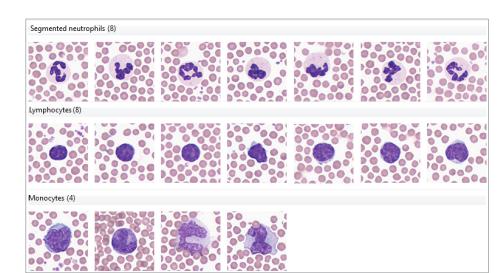


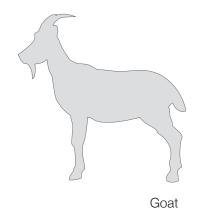


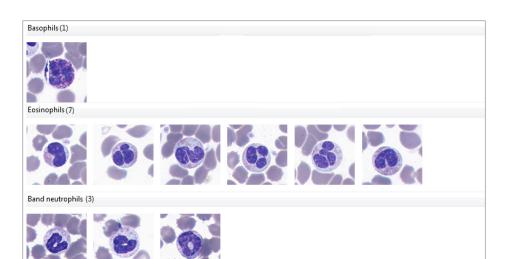
Mouse



Rabbit

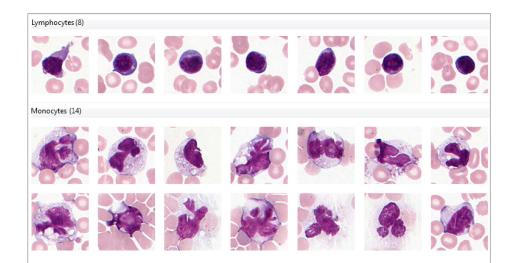


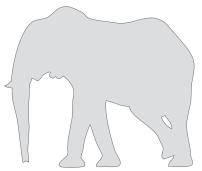






Monkey





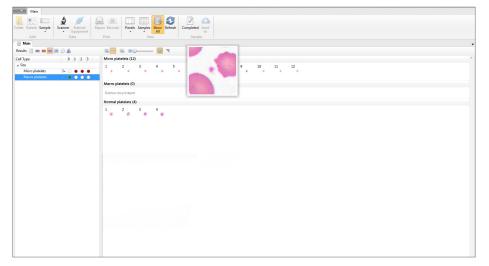
Elephant

### Additional modules Vision Extended RBC Vet

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	Macrocytosis					-												
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	Ovalocytes	· • 0 0 0 27	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48 -
	Teardrop cells	1+0 • 0 0 -				0	0	0										
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					115			118	119	120	121	122	123		125		0	128

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.

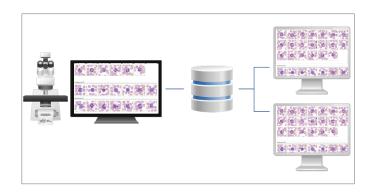
Al speeds up processing and interpretation of data, and allows to efficiently perform the most comprehensive tasks, including medical image analysis.

# Administrative Modules Vision Manager

Ø	Sample Class	Name	Code	Modified by	Date	Туре	
✓	CBC	Auto-completed	CS_RULE1	Administrator	15.02.2019	CBC Data	1
~	CBC	Pathology	CS_RULE3	Administrator	15.02.2019	Microscopy	
	ditions						

Analysis procedure automation, data processing rules.

#### Vision Remote



Remote workplace

### Consulting and Education Modules Vision Suite

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,	0.0			12/05/2018, 7:32 PM	4557	Histo	1.5 GB			

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:<br>Vision Hema Vet                                       |
|---|---|---|--|
| Additional modules:<br>Vision Extended RBC Vet<br>Vision Extended PLT Vet | Additional modules:<br>Vision Extended RBC Vet<br>Vision Extended PLT Vet | Additional modules:<br>Vision Extended RBC Vet<br>Vision Extended PLT Vet | Additional modules:<br>Vision Extended RBC Vet<br>Vision Extended PLT Vet    |
| Working modes:<br>manual slide scanning                                   | Working modes:<br>queue (only 4 slides version)                           | Working modes:<br>queue, random access                                    | Working modes:<br>queue, continuous and random<br>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:<br>10x, 50x Oil, 100x Oil                                 | Optical system:<br>10x, 50x Oil, 100x Oil                                 | Optical system:<br>10x, 60x Oil, 100x Oil                                 | Optical system:<br>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),<br>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)
	Art. N.: 7 1430.00.001 (4 sildes)		

We reserve the right to change specification without notice.



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