

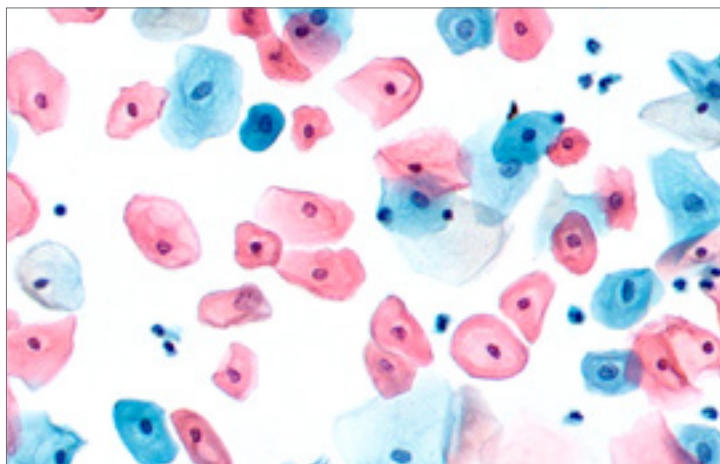
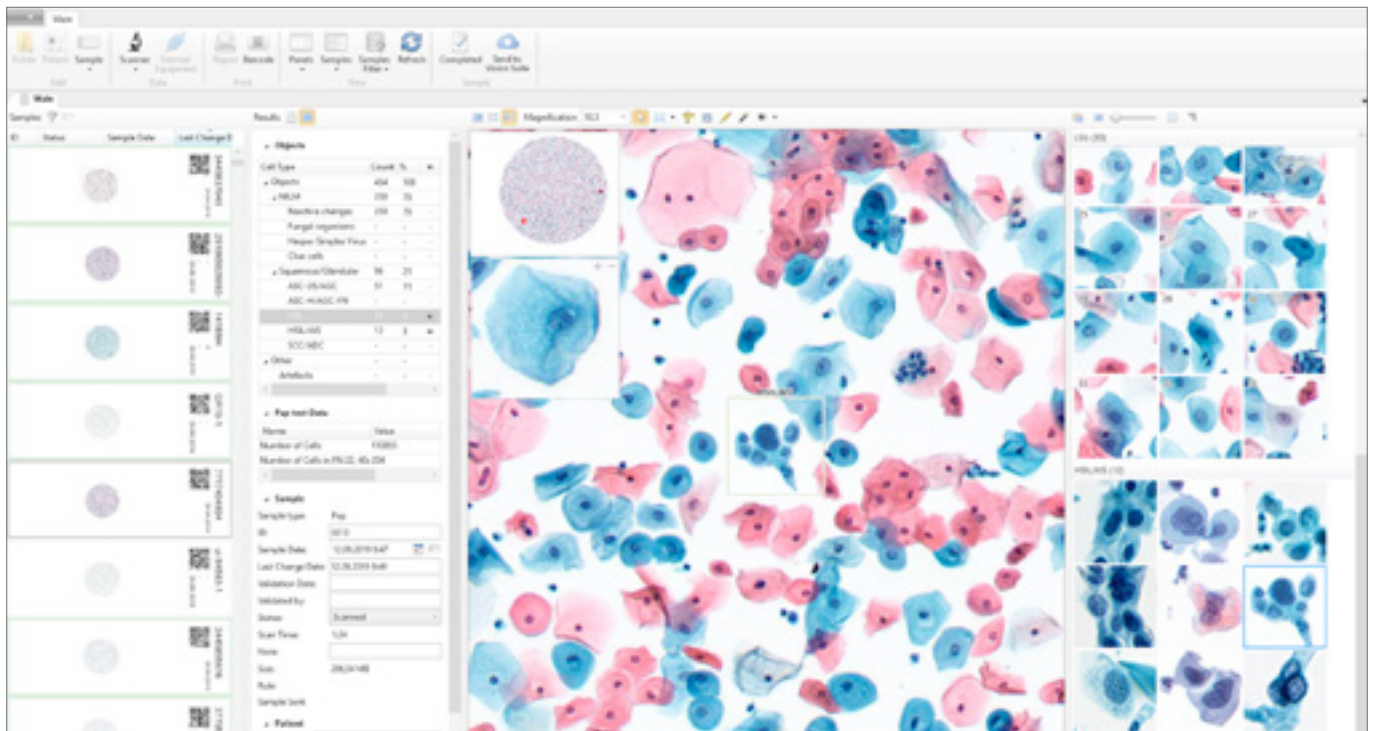
Cervical cytology

Automated screening for cervical cancer



Clinical Application Module

Vision Cyto Pap

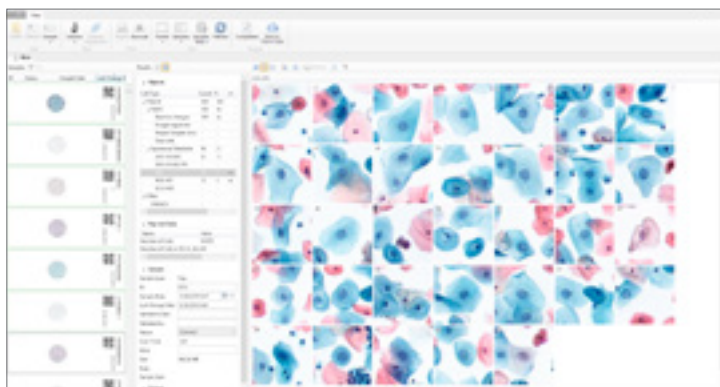


Automation of cervical cytology.

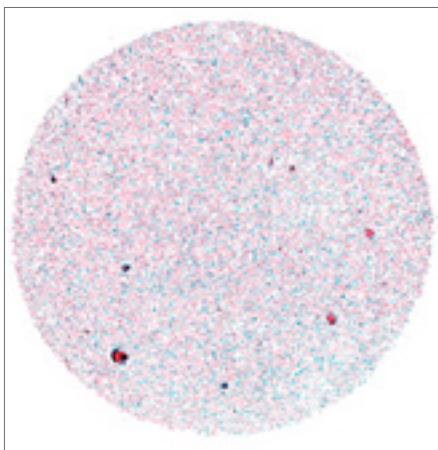
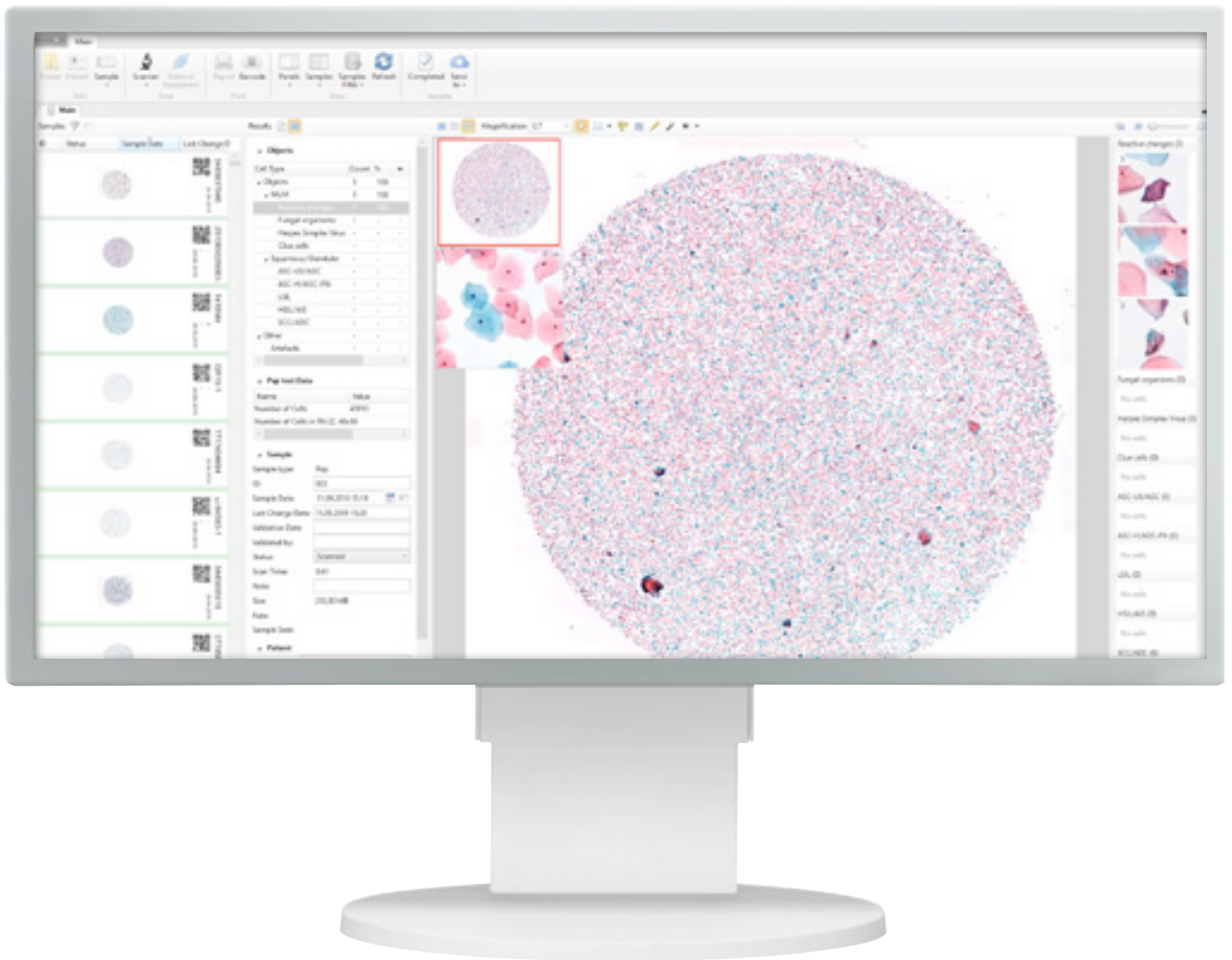
Automatic pre-classification by Bethesda system.

NILM
Reactive changes

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



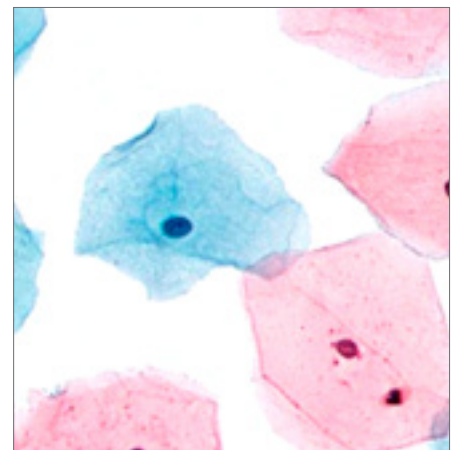
— Creating digital sample and cells gallery
— Database for archive management
— Bi-directional communication with LIS
— Pre-set cell atlas



Digital slide



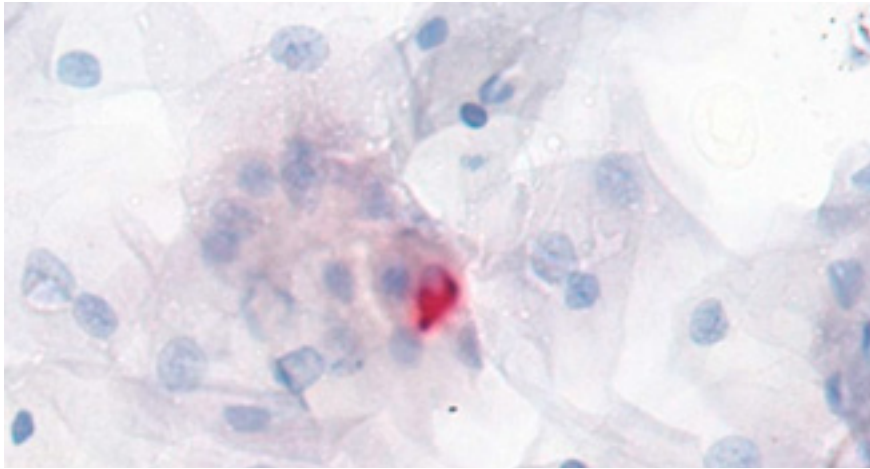
20x magnification



40x magnification

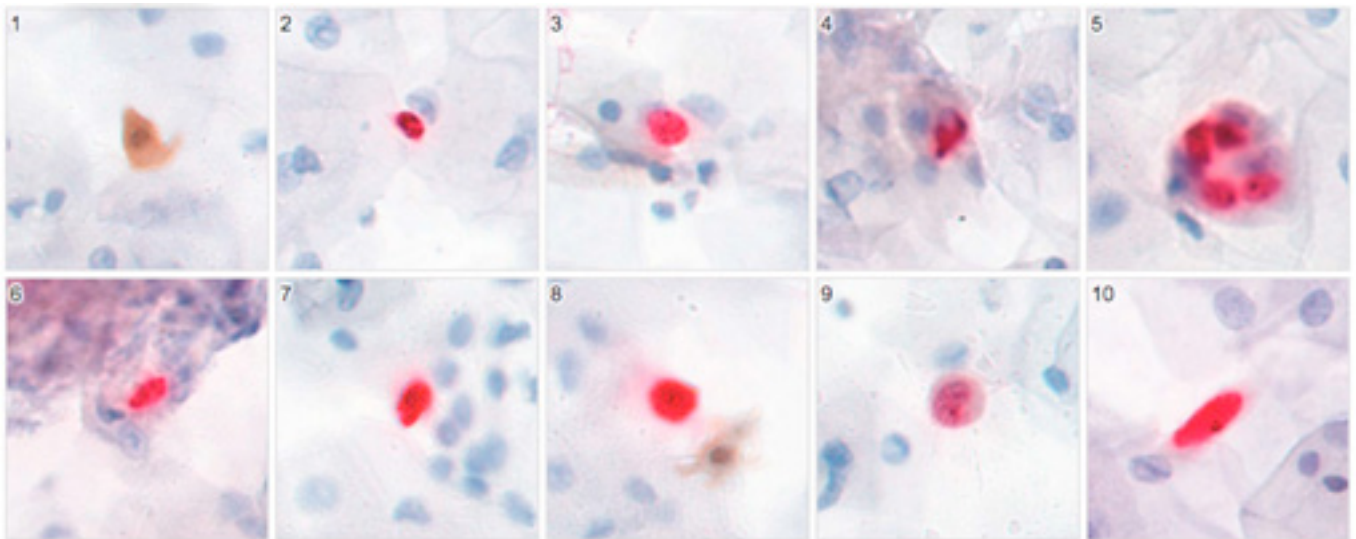
Additional Module

Vision Cyto Pap ICC



Additional examination for cervical cancer

- Assessment of p16/Ki protein expression
- Automatic identification and pre-classification of cells with cytoplasmic and nuclear expression: Low-positive, Positive



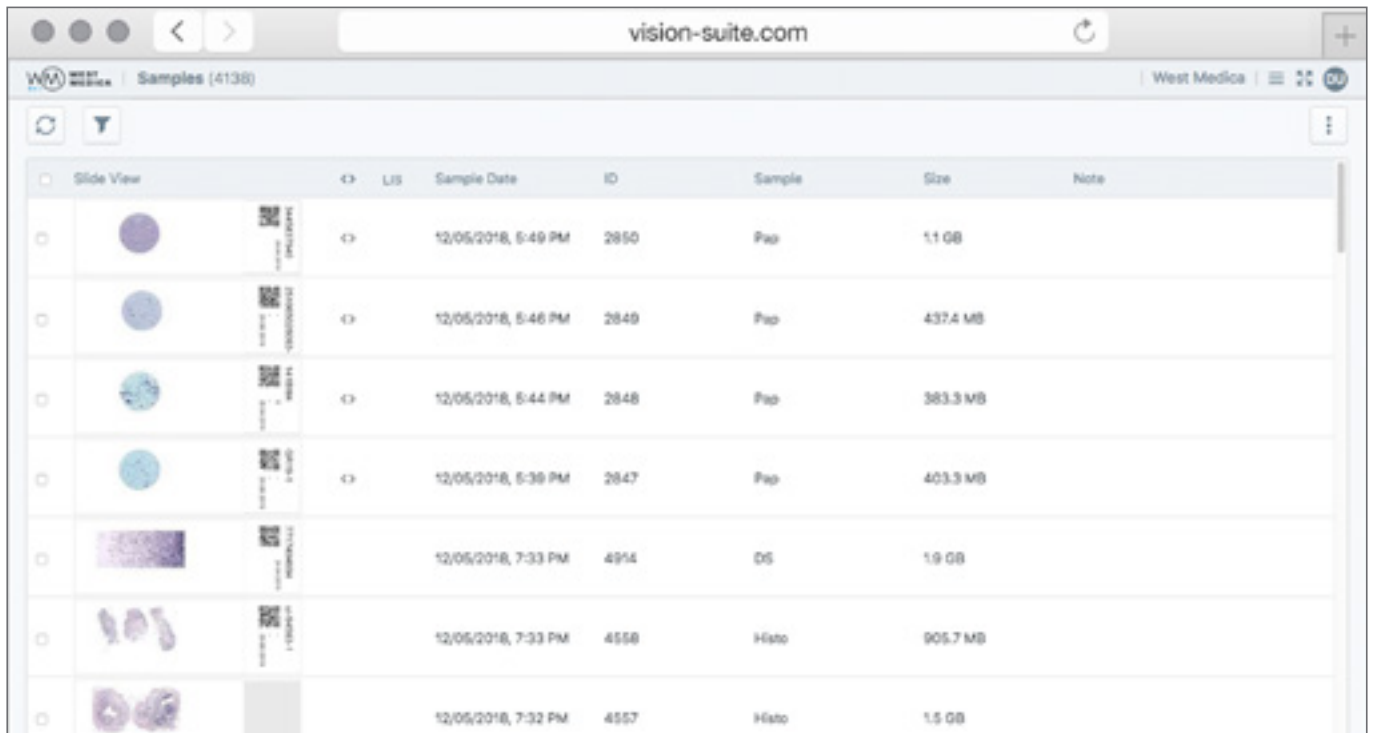
Artificial intelligence

















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.

Consulting and Education Module Vision Suite



The screenshot shows a web browser window with the URL 'vision-suite.com'. The page displays a list of samples under the heading 'Samples (4136)'. The table has the following columns: Slide View, LIS, Sample Date, ID, Sample, Size, and Note. The data rows are as follows:

Slide View	LIS	Sample Date	ID	Sample	Size	Note
		12/05/2018, 5:49 PM	2850	Pap	1.1 GB	
		12/05/2018, 5:46 PM	2849	Pap	437.4 MB	
		12/05/2018, 5:44 PM	2848	Pap	383.3 MB	
		12/05/2018, 5:38 PM	2847	Pap	403.3 MB	
		12/05/2018, 7:33 PM	4914	OS	1.9 GB	
		12/05/2018, 7:33 PM	4558	Histo	905.7 MB	
		12/05/2018, 7:32 PM	4557	Histo	1.5 GB	

Cloud/server for telemedicine and remote consultations with colleagues.

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.

Administrative Modules

Vision Manager

Rules

+ - ↑ ↓ Test

Sample Class	Name	Code	Modified by	Date	Type
<input checked="" type="checkbox"/> Pap	Rule 1	CS_RULE1		06.11.2019	Microscopy

Conditions

+ - *fx*

Apply rule "Rule 1" when the following conditions are met:

- [SCG/ADC_# is cleared](#)

Analysis procedure automation, data processing rules.

Vision Remote



Remote workstation.

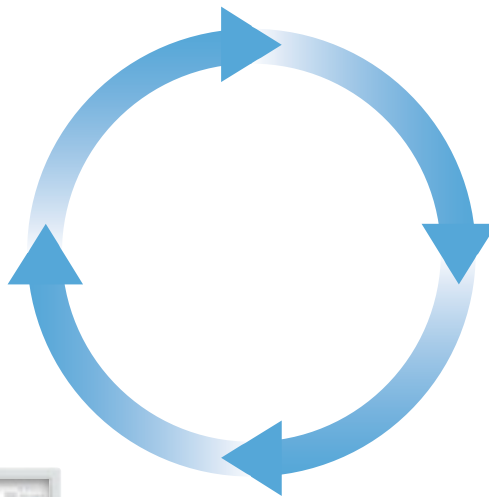
Cervical cancer screening workflow



Sampling



**Molecular analysis
HPV testing**



**Automatic microscopy
Vision Cell Imaging Analyzer**



**Sample preparation using
cytology processor (LBC)**

Specifications



Vision Assist
Cell Imaging Analyzer



Vision Pro
Cell Imaging Analyzer



Vision Ultimate
Cell Imaging Analyzer

Application module: Vision Cyto Pap	Application module: Vision Cyto Pap	Application module: Vision Cyto Pap
Additional modules: Vision Cyto Pap ICC	Additional modules: Vision Cyto Pap ICC	Additional modules: Vision Cyto Pap ICC
Working modes: queue (only 4 slides version)	Working modes: queue, random access	Working modes: queue, continuous and random access, STAT testing, 24/7
Automatic scanning 1 or 4 slides	Automatic scanning 4 or 8 slides	Automatic scanning Up to 200 slides
Manual slide handling	2 cassettes with slides	Automatic slide handling
Microscope for scanning	Microscope for scanning	Microscope for scanning
Personal computer	Personal computer	Personal computer
Monitor	Monitor	Monitor
—	—	Touch-screen monitor for control
—	Built-in barcode reader (optional)	Built-in barcode reader
Optical system: 20x	Optical system: 20x	Optical system: 10x, 20x
Bright field	Bright field	Bright field
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
Art. N.: 71150.03 (1 slide) Art. N.: 71450.03 (4 slides)	Art. N.: 72452.03 (4 slides) Art. N.: 72852.03 (8 slides)	Art. N.: 73051.03 (200 slides)

We reserve the right to change specification without notice.



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For distributor