

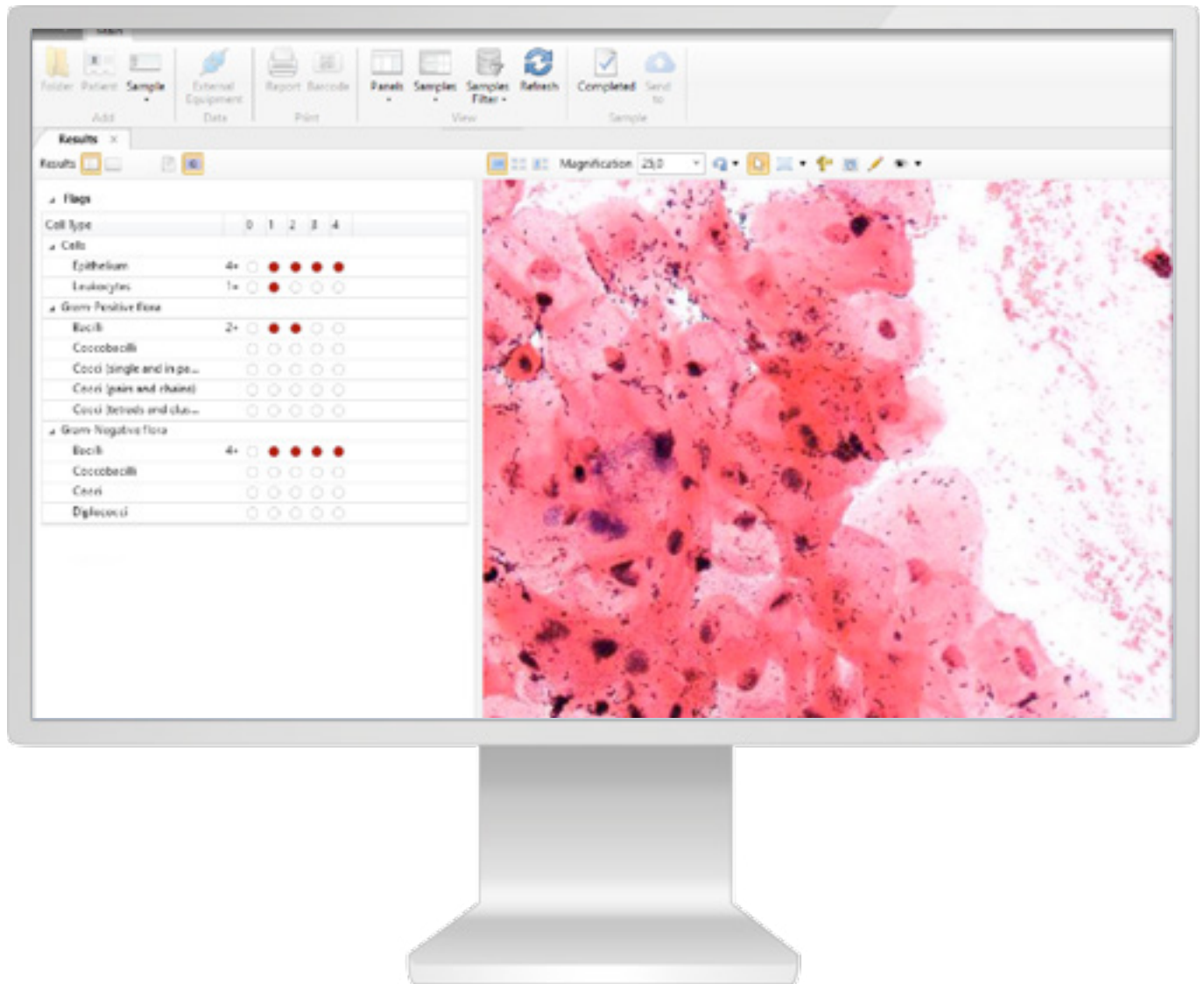
# Microbiology

## Gram smears analysis automation



# Clinical Application Module

## Vision Gram



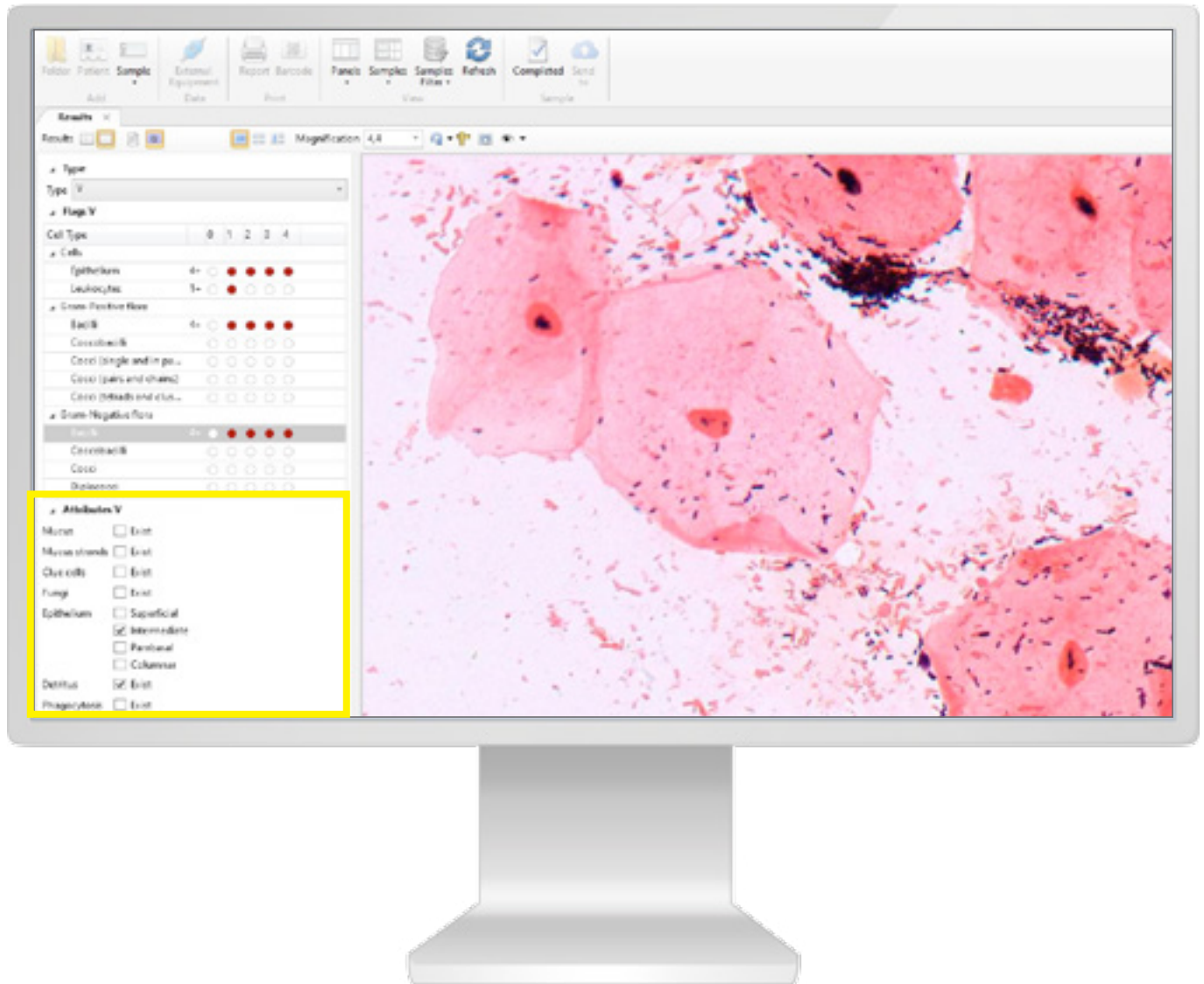
**Automatic analysis of Gram smears**

**Automatic scanning and creation of digital slide**

**Automatic morphology assessment, count and pre-classification of gram-positive and gram-negative bacteria:**

- Lactobacillus morphotypes
- Gram-negative and gram-positive rods
- Gram-negative and gram-positive cocci, located extra- and intracellularly, paired, chains, clusters
- Gardnerella morphotypes
- Anaerobic bacterial morphotypes, including: Peptostreptococcus, Bacteroides, Fusobacteriales, Prevotella, Mobiluncus spp.

# Additional Module Vision Extended Gram

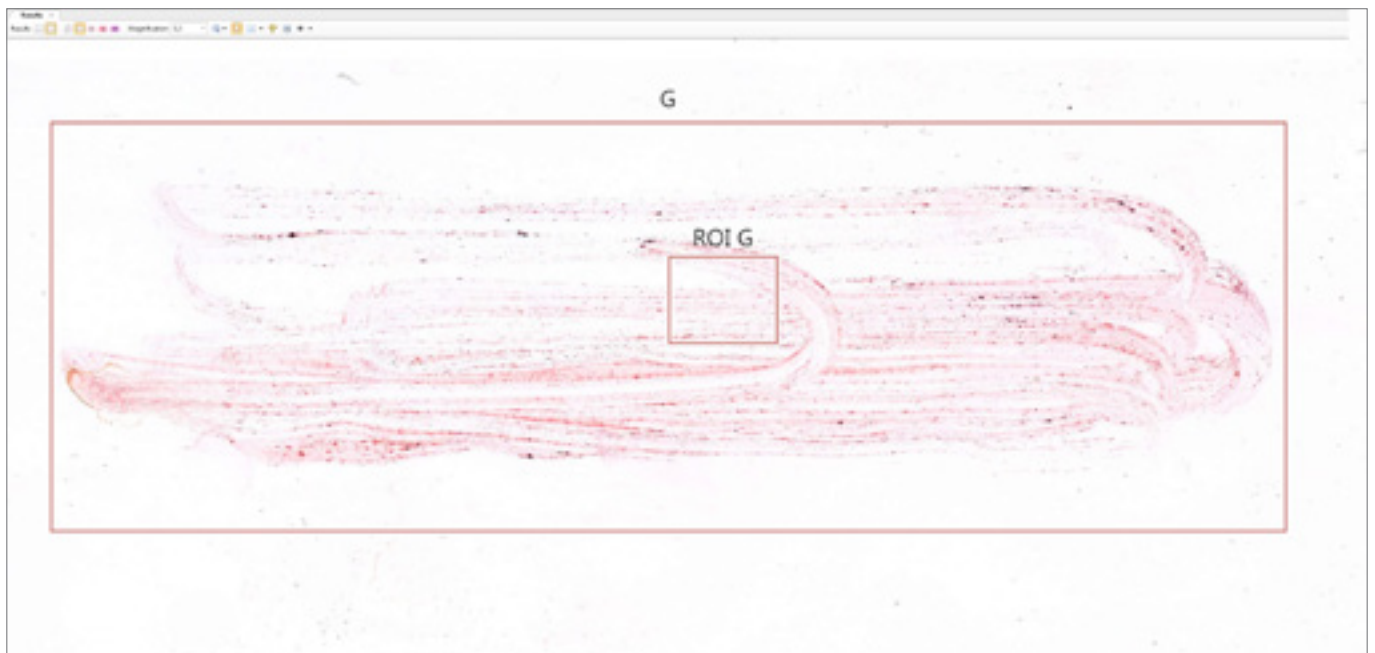


## Automatic identification:

- Epithelial cells (superficial, intermediate, parabasal, cylindrical epithelial)
- Leukocytes
- Clue cells
- Mucus and cell debris
- Trichomonas vaginalis
- Fungi.

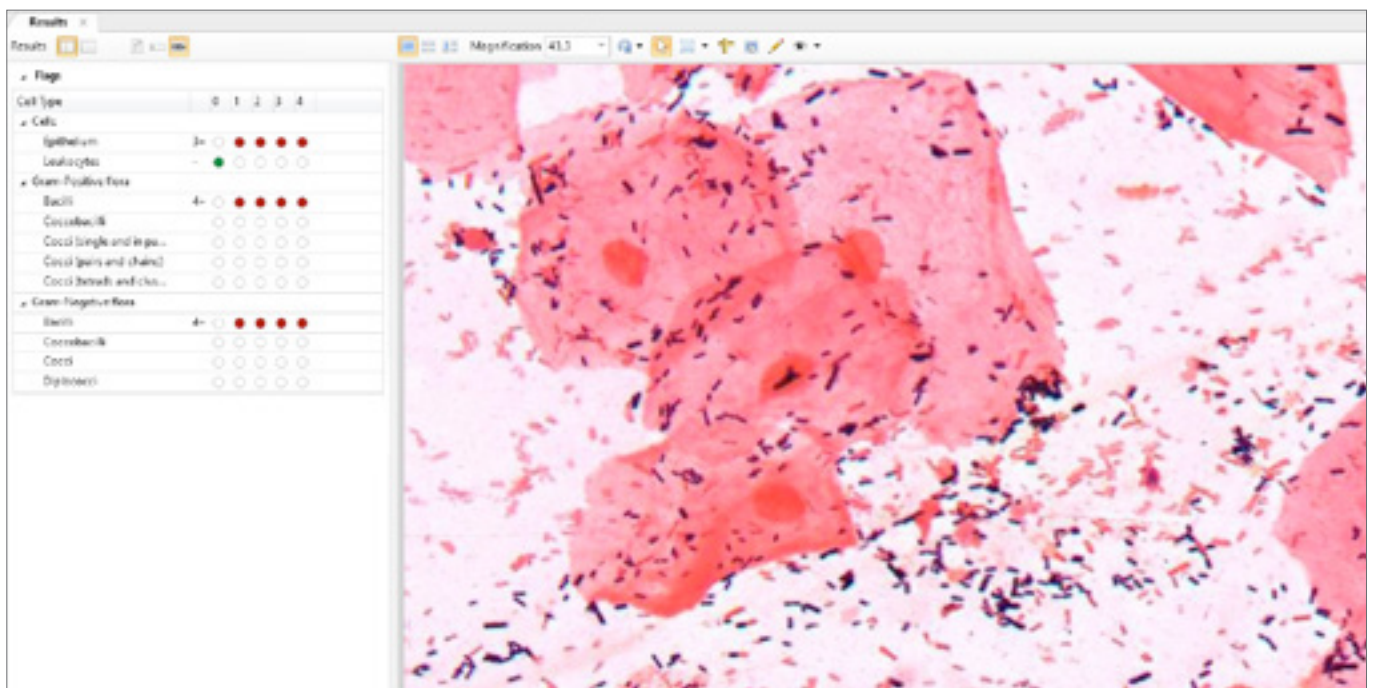
# Scanning DS 2.5x, smear and location area detector

Working with one location area  
Operation mode: Gram



Digital slide, Gram smear with 2.5x magnification.

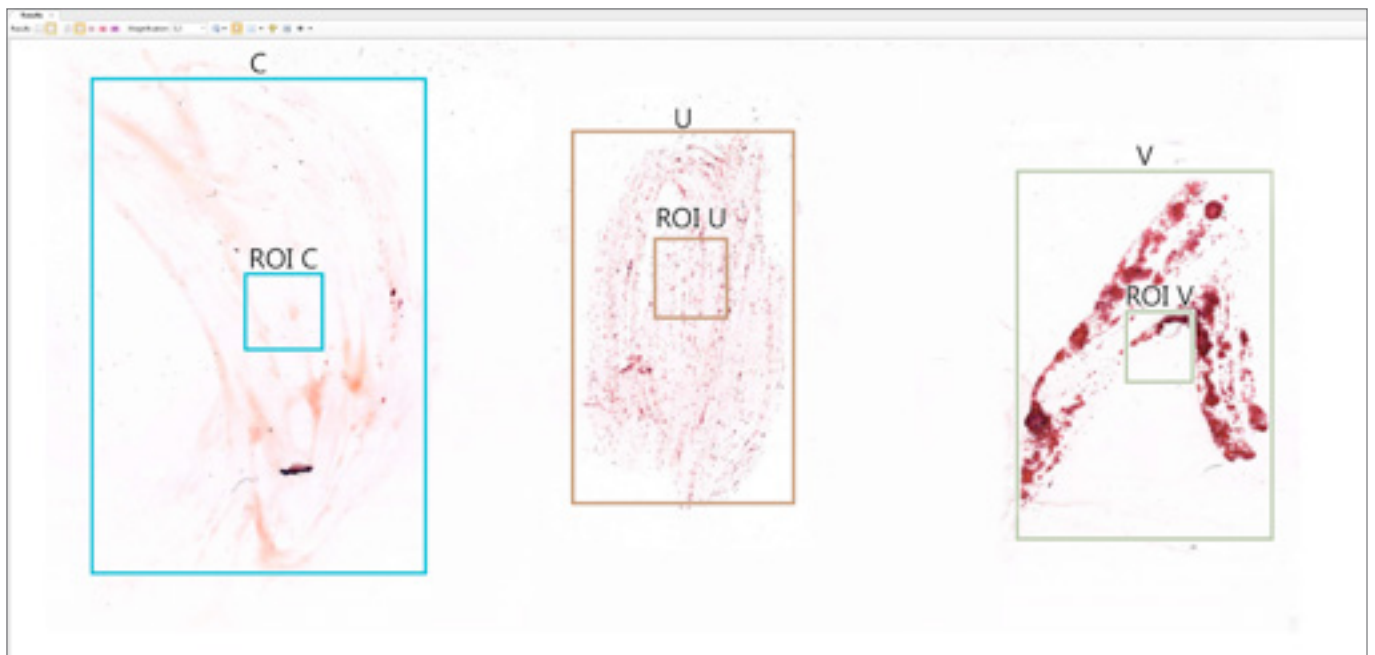
Automatic detection of Regions of Interest (ROI), Gram smear



Automatic scanning and analysis of Gram location

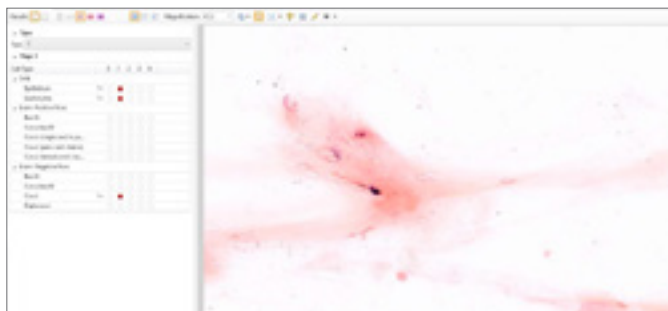
# Automatic detection of three locations

Operation mode with three locations:  
Cervical, Urethral, Vaginal

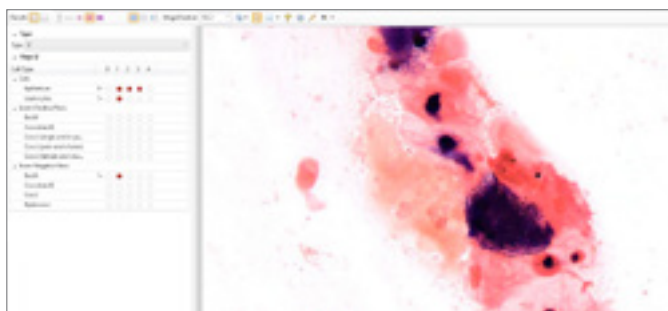


Digital slide, Gram smear with 2.5x magnification.

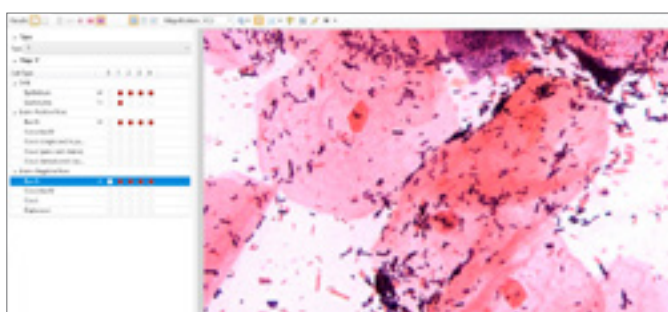
Automatic selection of locations and Regions of Interest (ROI) for locations: Cervical, Vaginal, Urethral



Automatic scanning and analysis  
of Cervical Location

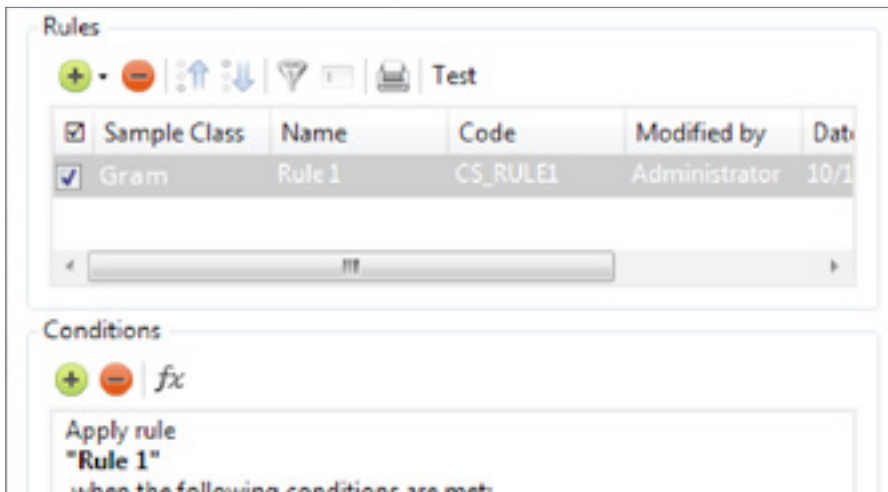


Automatic scanning and analysis  
of Urethral Location



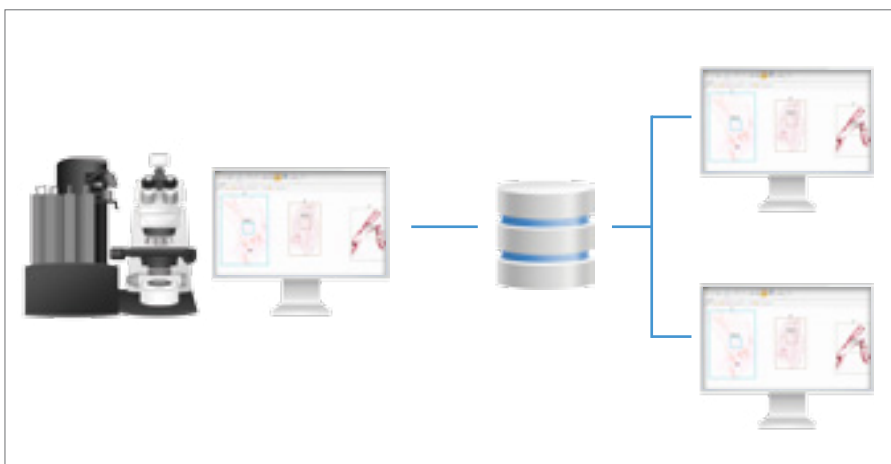
Automatic scanning and analysis  
of Vaginal Location

# Administrative Module Vision Manager



Analysis procedure automation, data processing rules created by the specialist.

## Vision Remote



Remote workstation.

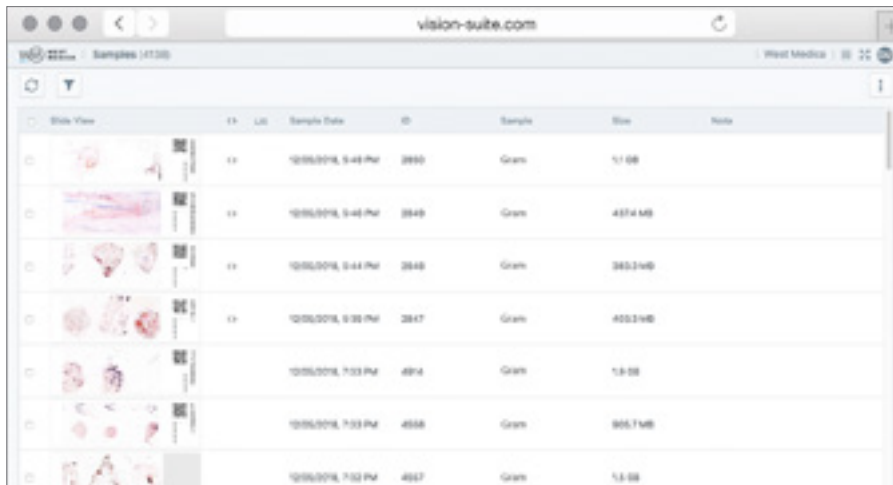
## Artificial intelligence



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 with columns for 'Lit', 'Sample Date', 'ID', 'Sample', 'Size', and 'Note'. Each row includes a thumbnail image of a sample. The data is as follows:

Lit	Sample Date	ID	Sample	Size	Note
11	10/05/2016, 9:49 PM	2850	Gram	1.1 MB	
11	10/05/2016, 9:48 PM	2849	Gram	457.4 MB	
11	10/05/2016, 9:44 PM	2848	Gram	385.2 MB	
11	10/05/2016, 9:39 PM	2847	Gram	403.2 MB	
	10/05/2016, 7:53 PM	4814	Gram	1.8 MB	
	10/05/2016, 7:53 PM	4858	Gram	305.7 MB	
	10/05/2016, 7:52 PM	4857	Gram	1.8 MB	

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.

# Specifications



**Vision Assist  
Cell Imaging Analyzer**



**Vision Pro  
Cell Imaging Analyzer**



**Vision Ultimate  
Cell Imaging Analyzer**

Application module: <b>Vision Gram</b>	Application module: <b>Vision Gram</b>	Application module: <b>Vision Gram</b>
Additional module: <b>Vision Extended Gram</b>	Additional module: <b>Vision Extended Gram</b>	Additional module: <b>Vision Extended Gram</b>
Digital slide 100x	Digital slide 60x/100x	Digital slide 63x
Operation mode: Gram (1 location)	Operation mode: Gram (1 location)	Operation mode: Gram (1 location)
—	—	Operation mode CUV (3 locations)
—	—	DS 2,5x, smear detector
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	Automatic scanning	Automatic scanning
1 or 4 slides	8 slides	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
—	Automatic oil dispenser (optional)	Automatic oil dispenser
Optical system: 10x, 50x Oil, 100x Oil	Optical system: 10x, 60x Oil, 100x Oil	Optical system: 2.5x, 10x, 63x Oil
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.: 71150.05 (1 slide) Art. N.: 71450.05 (4 slides)	Art. N.: 72852.05 (8 slides)	Art. N.: 73031.05 (200 slides)

Please check the intended use and the registration in your local regulation. Depending on the regulations of the respective region, some products may be used for research purpose only.

Pre-classification has to be validated by the specialist reviewing the galleries of cells. We reserve the right to change specification without notice.



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For distributor