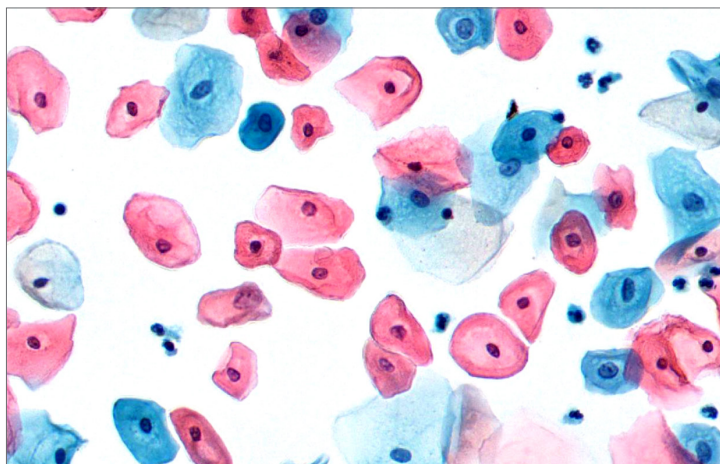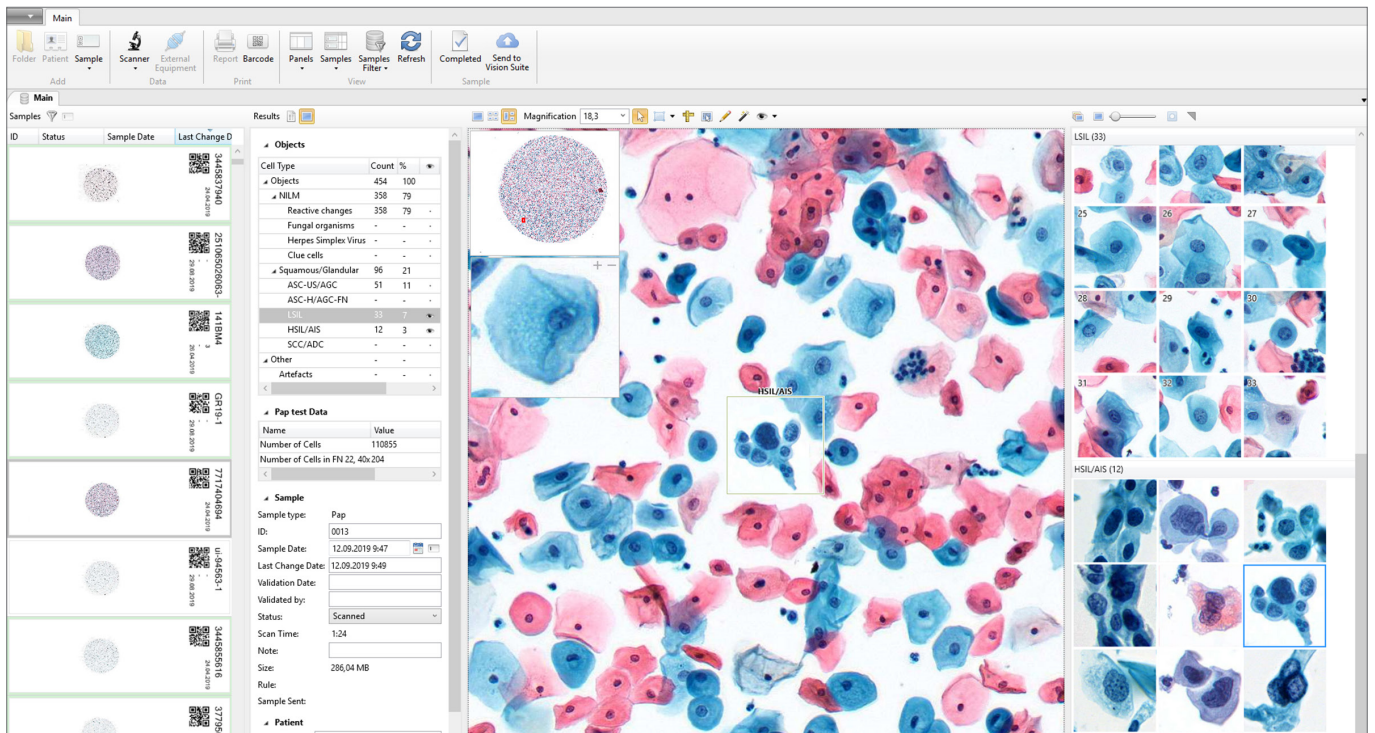# Cervical cytology
Automated cervical cytology

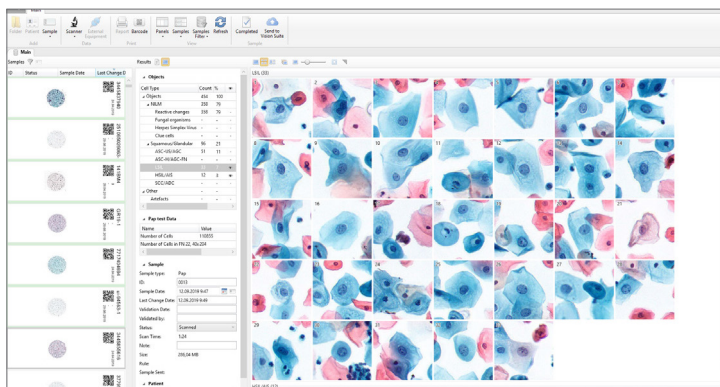# Clinical Application Module
Vision Cyto Pap
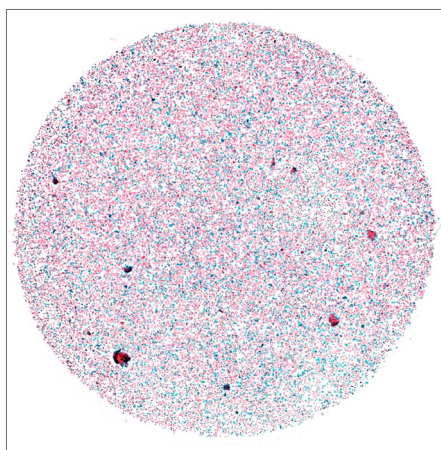

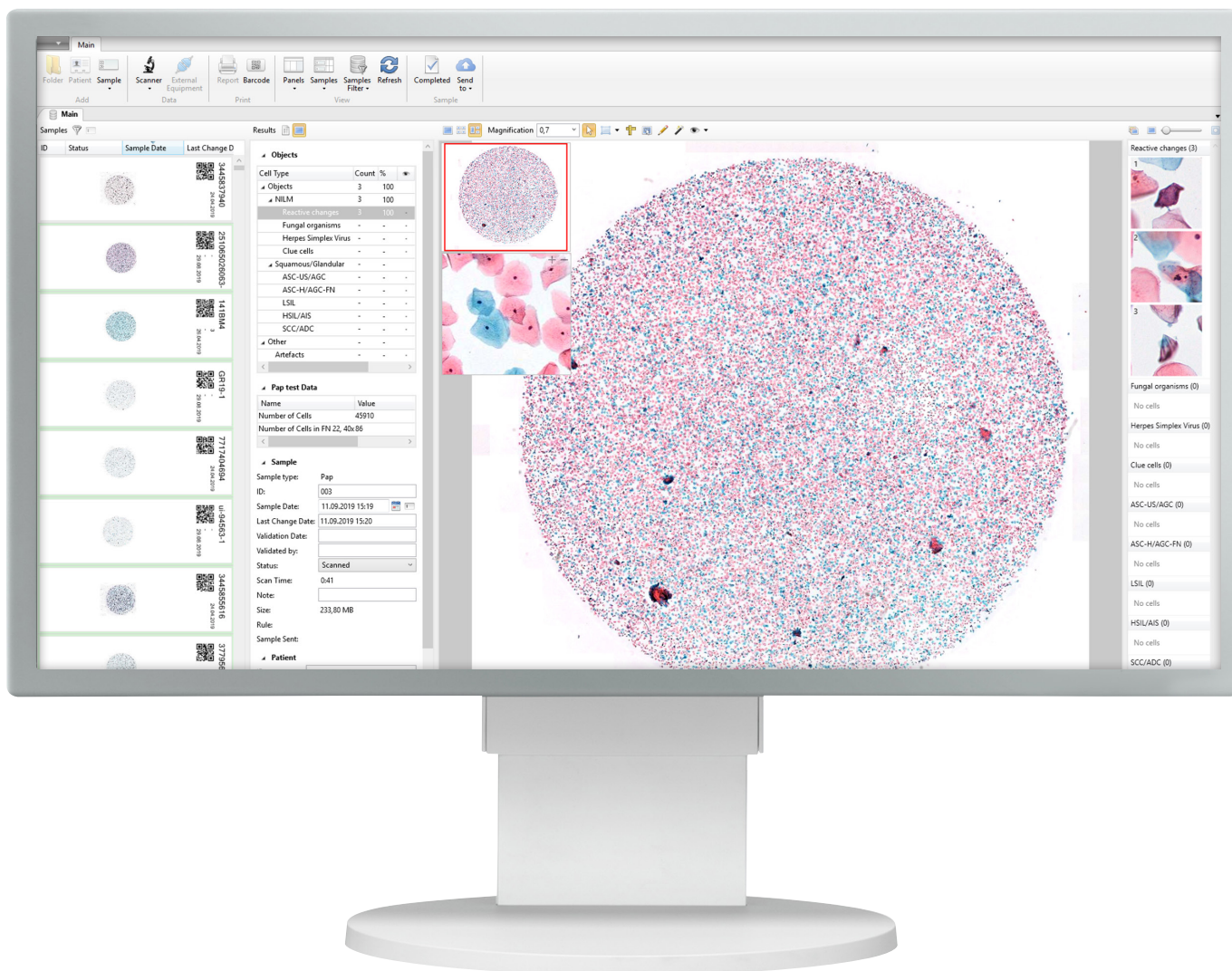**Automation of cervical cytology.**

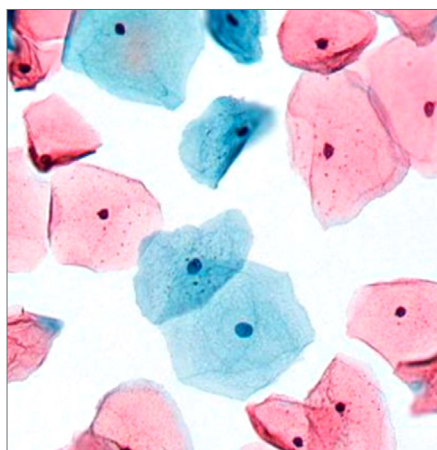**Automatic pre-classification by Bethesda system.**

NILM
Reactive changes

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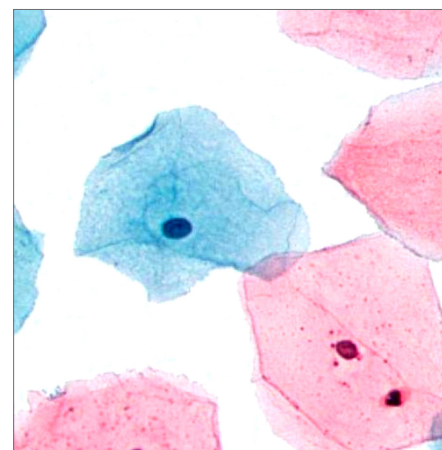— ASC-H / AGC-FN
— LSIL
— HSIL / AIS
— SCC / ADC

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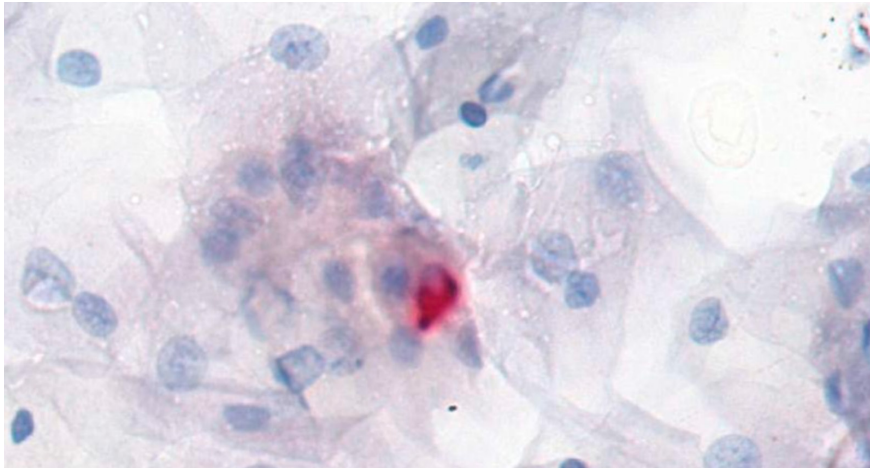— Pre-set cell atlas

Digital slide

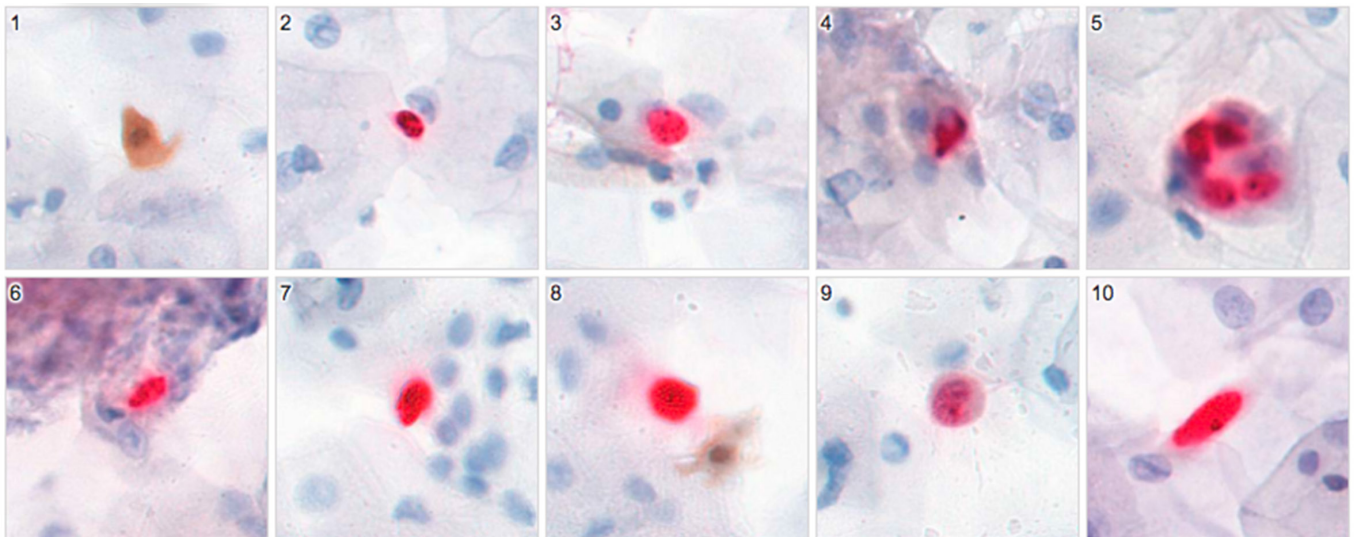20x magnification

40x magnification

Additional Module
Vision Cyto Pap ICC

Additional examination for cervical cytology

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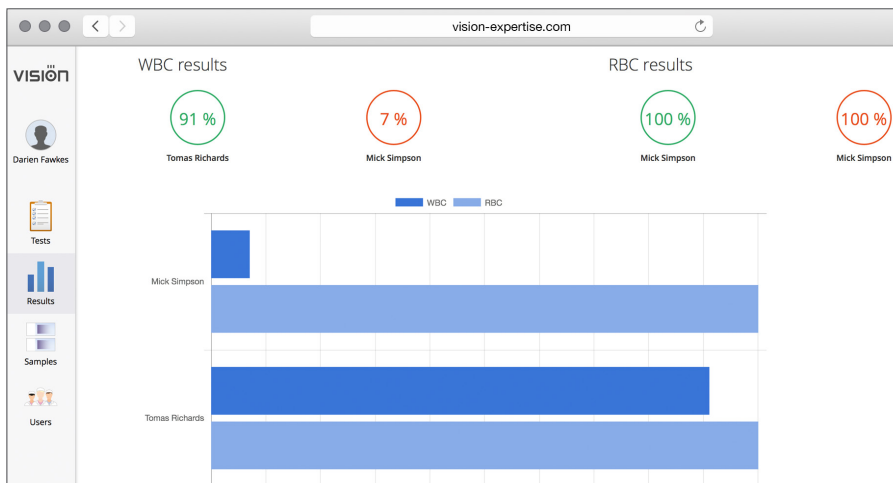
AI speeds up processing and interpretation of data, and allows to efficiently perform the most comprehensive tasks, including medical image analysis.

Consulting and Education Modules
Vision Suite

Cloud/server for telemedicine and remote consultations with colleagues.

Vision Expertise

Online testing and quality control.

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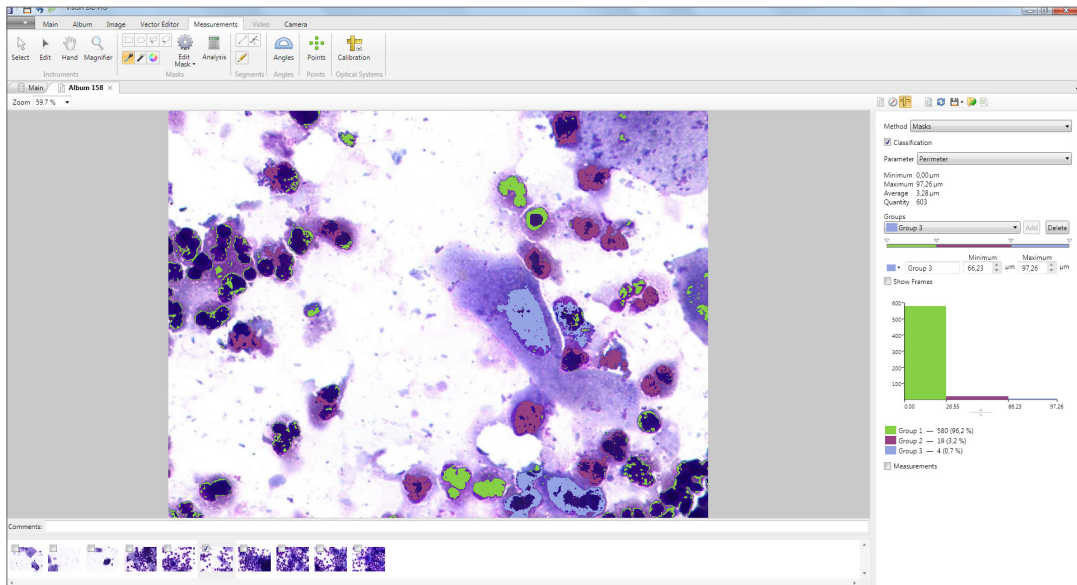
The latest developments of artificial intelligence provide a solution for the tasks connected with automation in digital microscopy.

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.
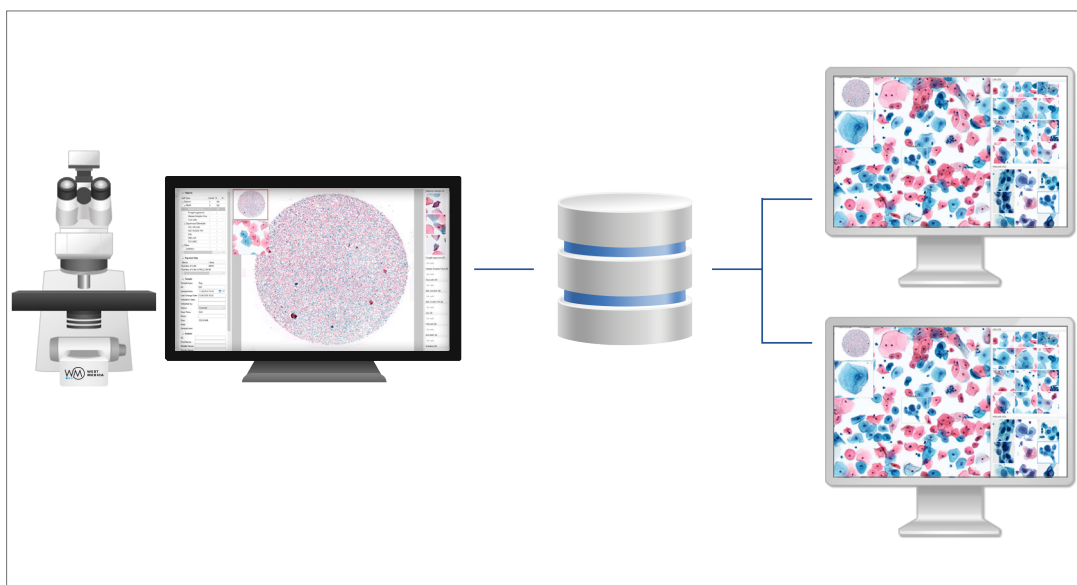
Administrative Modules
Vision Manager

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

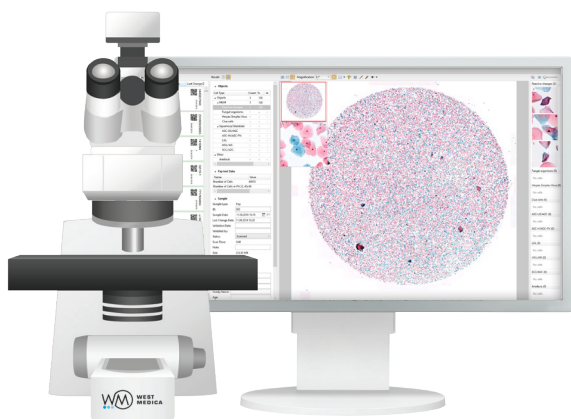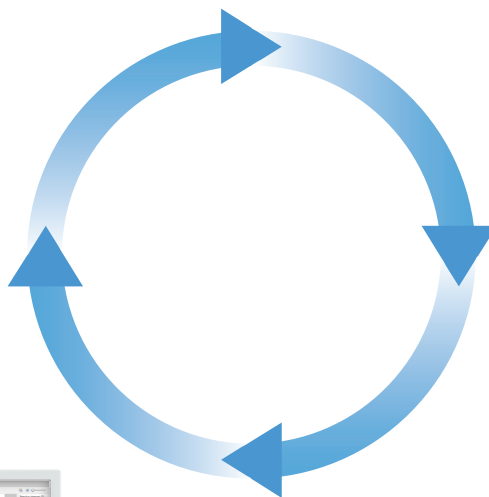## Vision Remote

Remote workstation.

Cervical cytology workflow
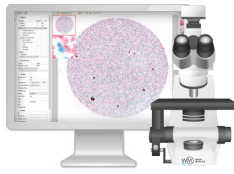

Sampling

Molecular analysis
HPV testing

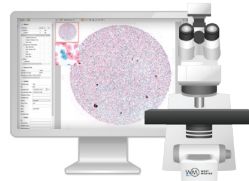Automatic microscopy
Vision Cell Imaging Analyzer

Sample preparation using
cytology processor (LBC)

Specifications

Vision Assist
Cell Imaging Analyzer

Vision Pro
Cell Imaging Analyzer

Vision Ultimate
Cell Imaging Analyzer

Vision Assist	Vision Pro	Vision Ultimate
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	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
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.: 72852.03 (8 slides)	Art. N.: 73051.03 (200 slides)

We reserve the right to change specification without notice.