

MICROOptix

## MX Vision Cyto

Cytologist's workplace



AUSTRIA **M** WORLD CLASS PARTNERS

# MX Vision Cyto

## Digital cytology

### Organization and interpretation of cytological examinations

#### Hints from the atlas

Develop your professional expertise by creating and maintaining an atlas. Add images with comments for later reference.



## 1 Sample microscopy

Find a required object on the cytology sample in video mode, and capture its digital image.

## 2 Simple interface

The toolbar is designed according to analysis' algorithm and ensures compliance with all procedure stages, thus providing reliable results. The toolbar has minimal size to retain space for working with images.



Combination of innovative technology and classical microscopy extends working possibilities

## A pre-set algorithm for cytology analysis

An irreplaceable assistant offers a standardized algorithm for the cytological examination. Raise the quality of cytological examinations to a new level.

Analysis Attributes

- Characteristic of smear**
  - Method of obtaining: Exfoliative
  - Material: Cervical scrapings
  - Localisation: Endocervix
  - Quantity: Multicellularity
  - Staining: Azur-eosin (Romanovsky, Papanhem)
- Signs of cellular atypia**
  - Signs
    - Increasing the size of cells
    - Increasing the size of the nucleus
    - Violation of nuclear cytoplasmic ratio toward the increase of nucleus
    - Uneven contour of the nuclear envelope
    - Presence of nucleoli in the nucleus
    - Changes in the structure of chromatin
    - Inclusions in cytoplasm
    - Phagocytosis
    - Vacuolation
    - Presence of structures
    - Signs of inflammation
  - Type of changes in the structure of chromatin:
    - Coarse-grained
    - Soft
  - Type of structure:
    - Granular
    - Papillary
  - Signs of inflammation:
    - Cytolysis
    - Dyskeratosis
    - Hyperkeratosis
    - Parakeratosis
    - Dyskaryosis
    - Metaplasia
    - Cellular elements of inflammation
  - Elements:
    - Leucocytes
    - Macrophages
    - Reticular cells
    - Lymphoid elements
- Proliferative activity**
  - Attributes:
    - Presence of mitosis
    - Presence of multinucleated cells
    - Cellular polymorphism
- Characteristic of cells**
  - Differentiated features: Glandular
- Characteristic of nucleus**
  - Signs of dystrophy and necrobiosis:
    - Karyorrhexis
    - Karyopyknosis
    - Karyolysis
- Characteristic of nucleolus**
  - Quantity: 1-2
- Characteristic of background**
  - Presence of cell debris: No
- Cytological album of diagnoses**
  - Result Interpretation: Glandular hyperplasia [Templates]
  - Notes: Case follow-up is required [Templates]
  - Diagnoses:
    - Diagnosis: [Diagnosed] [Removed]
  - Established Diagnoses: [New]

## MX Vision Cyto system for cytological analysis

### General characteristics

<b>Working modes</b>	scanning of cytology samples
<b>Simultaneous loading</b>	1 slide
<b>Slide handling</b>	manual, successive
<b>Optical system</b>	4x, 10x, 40x, 100x oil
<b>Validation</b>	according to the pre-set cytology algorithm
<b>Cytological atlas</b>	built-in with the ability to edit
<b>Microscopic slides</b>	standard 75x25 mm, 1.1 mm thick
<b>Communication</b>	bi-directional LIS, LIS2-A2 (ASTM), Ethernet
<b>Multiple user access</b>	4 pre-set types of users: Administrator, Doctor, Technician, Receptionist; new types of users can be added; adjustable access rights for users
<b>Database</b>	multiple systems can share one database; archiving of results via transfer to external storage media
<b>Software</b>	Vision Cyto® Basic <ul style="list-style-type: none"> <li>— database of patients, digital samples and analysis results</li> <li>— patient and analysis registration</li> <li>— manual field of view selection</li> <li>— a pre-set cytological atlas</li> <li>— a pre-set cytological album of diagnosis</li> <li>— quick preview, color marks and comments for captured cells in the sample</li> <li>— analysis form. Customizable reference guide to generate reports, following your personal requirements</li> <li>— remote access and network capabilities</li> </ul>

### Ordering Information

Description	Code
<b>MX Vision Cyto / Standard set</b> System includes: MicroOptix MX 100T microscope, Vision CAM® V005 (C) digital camera, Vision Cyto® Basic software, personal computer	<b>60.0017.13</b>
<b>MX Vision Cyto / Primary Set</b> Set includes: MicroOptix MX 100T microscope, Vision CAM® V005 (C) digital camera, Vision Cyto® Basic software. <i>Use your personal computer*</i>	<b>60.0017.14</b>

\* Minimal PC requirements: Intel Core i5, 4 GB RAM, 1 TB HDD, Windows 7, 1920x1080

\* Product images are shown for reference only and final product may differ