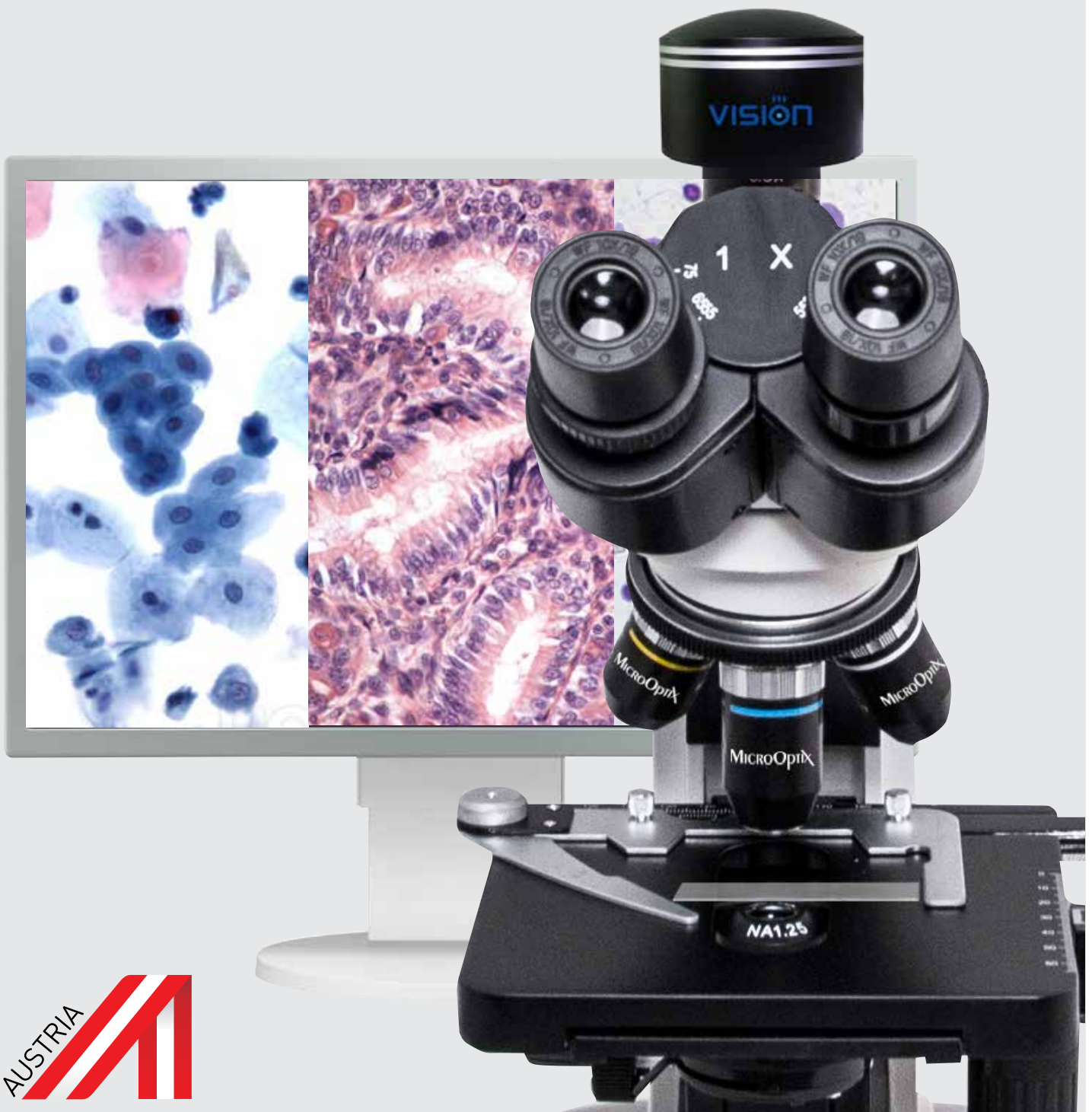


2017 | **DIGITAL MICROSCOPY**
MICROOPTIX | CATALOGUE



COMPANY PROFILE



Dear Colleagues!

West Medica company specializes in manufacturing and distribution of equipment for microscopy.

The company was established in 1993. Our market experience through close cooperation with our distributors allows us to produce and deliver high quality products.

Company's headquarters are located in Perchtoldsdorf near Vienna, Austria. The production facility is located in Upper Austria, in Frankenmarkt.

We participate in medical conferences and exhibitions, as well as organize workshops and master classes with leading specialists to provide you with up-to-date information on microscopy.

Our wide distribution network allows us to provide our customers with constant product availability and an efficient after-sales service with qualified personnel. They will answer any questions you might have.

Your friendship and trust are very significant to us and our goal is to provide you with high-quality and professional support.

Vienna ●

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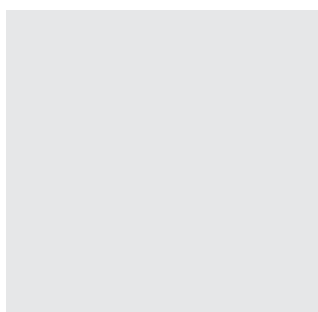
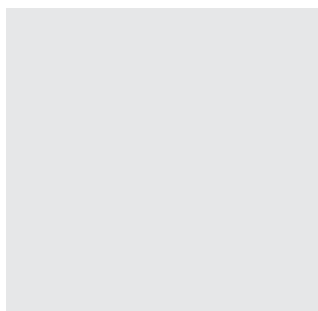
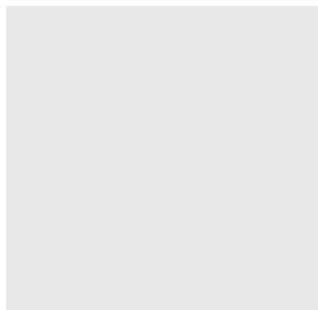
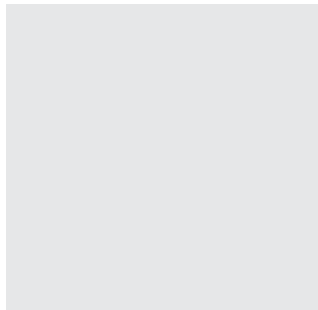
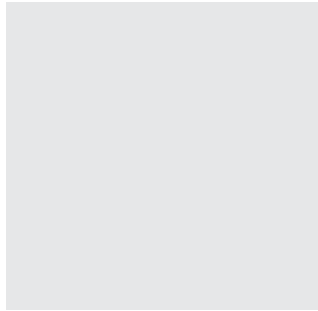
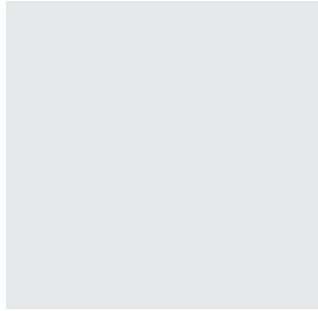
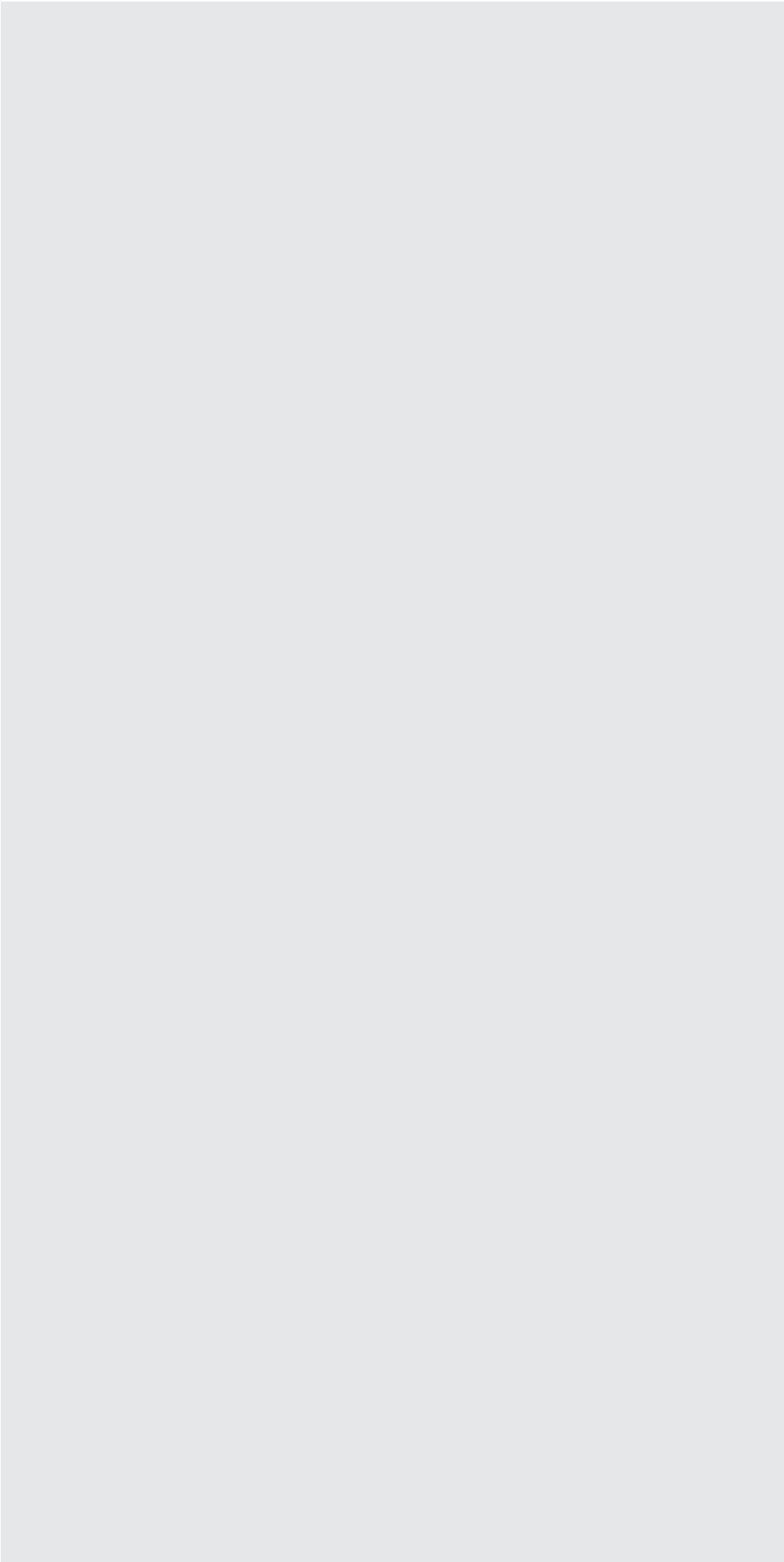


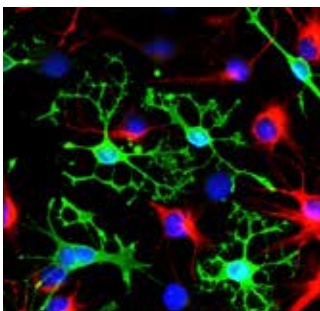
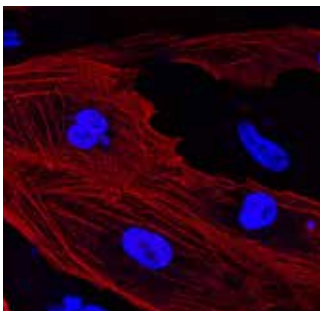
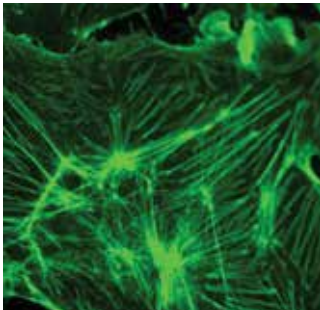
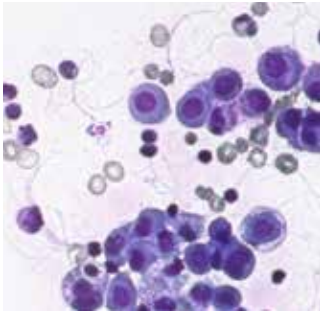
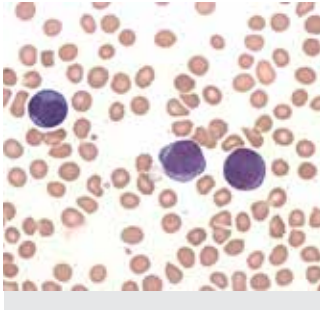
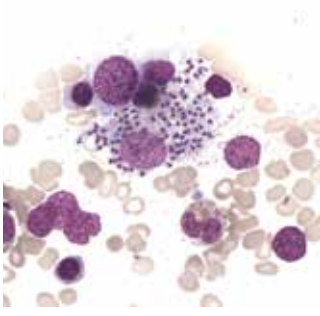
#	Section
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5-14 Basic systems & software

15-44 Digital microscopy systems

45-55 Microscopes & cameras





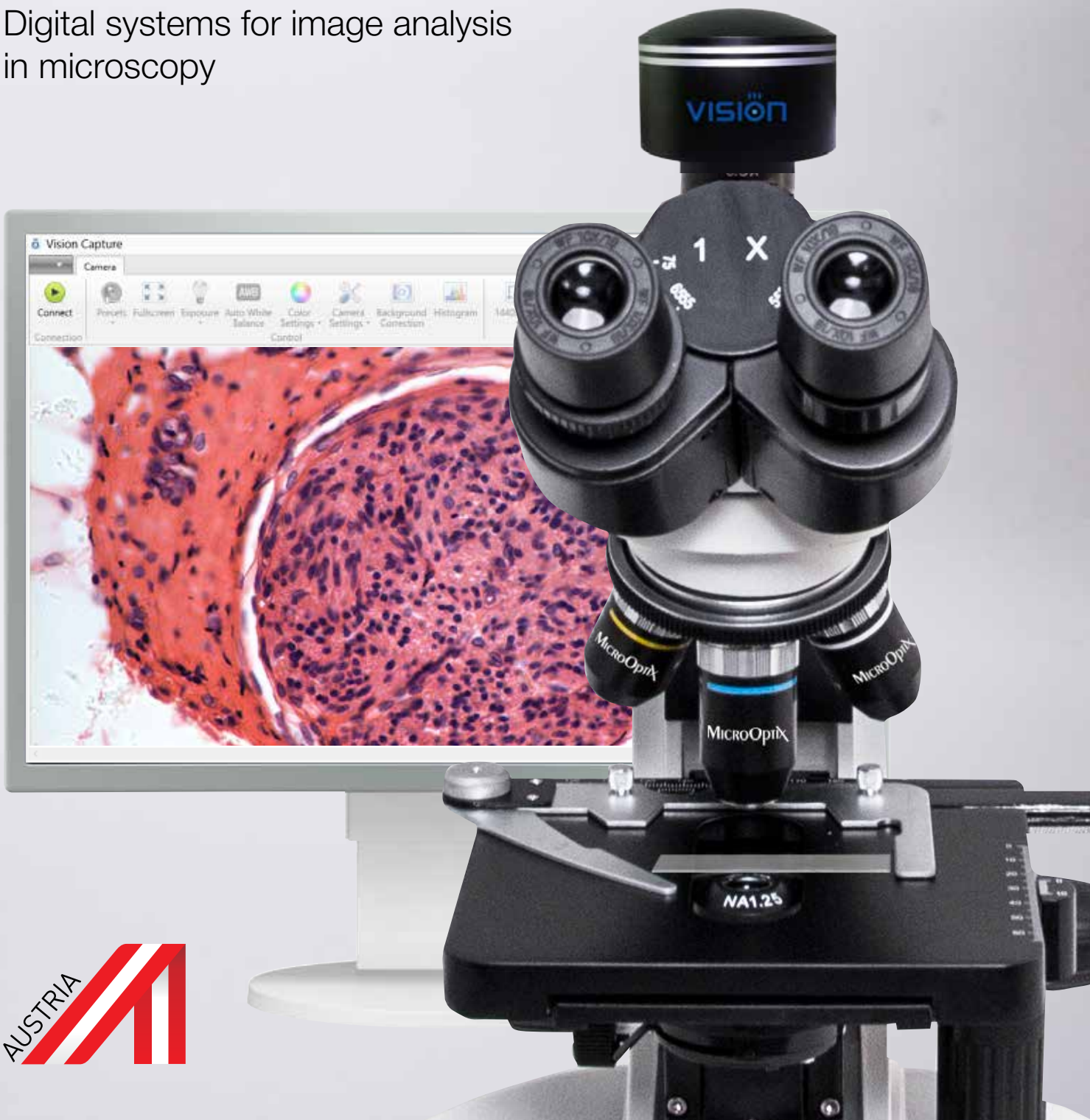
BASIC SYSTEMS & SOFTWARE

MX VISION BASIC® SYSTEM

VISION SOFTWARE

MX Vision Basic®

Digital systems for image analysis in microscopy



MX Vision Basic[®]

Master line



MX Vision Basic[®] / Standard set

System includes: MicroOptix MX 300 (T) microscope, Vision CAM[®] V009 (C) digital camera, Vision Capture[®] basic software, personal computer

MX Vision Basic[®] / Primary Set

System includes: MicroOptix MX 300 (T) microscope, Vision CAM[®] V009 (C) digital camera, Vision Capture[®] basic software.

*Use your PC**

MX Vision Basic[®] / Initial Set

System includes: Vision CAM[®] V009 (C) digital camera, Vision Capture[®] basic software.

Use your PC and microscope***

* Minimal PC requirements: Intel Core i5, 4 GB RAM, 1 TB HDD, Windows 7, Monitor 23", 1920x1080 screen resolution

** Minimal requirements to microscope: trinocular microscope with C-Mount adapter

MX Vision Basic[®]

Eco line



MX Vision Basic[®] / Standard set

System includes: MicroOptix MX 100 (T) microscope, Vision CAM[®] V005 (C) digital camera, Vision Capture[®] basic software, personal computer

MX Vision Basic[®] / Primary Set

System includes: MicroOptix MX 100 (T) microscope, Vision CAM[®] V005 (C) digital camera, Vision Capture[®] basic software.

*Use your PC**

MX Vision Basic[®] / Initial Set

System includes: Vision CAM[®] V005 (C) digital camera, Vision Capture[®] basic software.

Use your PC and microscope***

* Minimal PC requirements: Intel Core i5, 4 GB RAM, 1 TB HDD, Windows 7, Monitor 23", 1920x1080 screen resolution

** Minimal requireme

Add to MX Vision Basic® system the software that you need in your practical work.



Vision Bio® Album software

- management of digital albums in microscopy
- a professional set of tools to work with digital samples: create, edit, organize, classify and comment



Vision Bio® Report software

- report generation and management of digital albums in microscopy
- a professional set of tools to work with digital samples: create, edit, organize, classify and comment
- embedded examples and report blanks for microscopic analyses



Vision Bio® Analyze software

- analysis, report generation and management of digital albums in microscopy
- a professional set of tools to work with digital samples: create, edit, organize, classify and comment
- embedded examples and report blanks for microscopic analyses
- manual and automatic selection and analysis of the required objects, determination of sizes, shapes, position, optical parameters of the selected objects



Vision Cyto® Basic software

- cytological examinations
- a pre-set algorithm for cytology analysis
- a pre-set cytological atlas



Vision Sperm Sediment® software

- microscopy and sperm sediment analysis
- algorithm for diagnostics based on cell's morphological markers
- automatic calculation of diagnostic CSS index



Vision Sperm® software

- microscopy and sperm analysis
- pre-set algorithm of sperm analysis by WHO
- a pre-set semen objects atlas



Vision Karyo® software

- chromosome analysis
- automatic separation of crossing over and touching of chromosomes
- an automatic karyotyping with the possibility of manual correction



Vision FISH® software

- Fluorescence In Situ Hybridization method
- generation of final image with fluorescent stains
- automatic and manual separation of crossing over and touching chromosomes



Vision Capture® software

- saving of digital images
- camera settings management
- saving of photo and video results of microscopic analyses



DIGITAL MICROSCOPY SYSTEMS

- MX VISION BIO[®] ANALYZE SYSTEM**
- MX VISION CYTO[®] SYSTEM**
- VISION SPERM SEDIMENT[®] SYSTEM**
- MX VISION SPERM[®] SYSTEM**
- MX VISION KARYOFISH[®] SYSTEM**

MICROOPTIX



MX Vision Bio[®] Analyze

Analysis in biology and medicine



MX Vision Bio[®] Analyze

Digital microscopy

Analysis, documentation, organization and reports

- 1 Digital camera**
High resolution and perfect color rendering deliver superior microscopy sample image quality.
- 2 Optical system**
The combination of innovative technology and classical microscopy extends working possibilities. If necessary, microscopy sample can be viewed through the eyepieces.
- 3 Sample microscopy**
Find required object on the microscopy sample in video mode, and capture its digital image.



4 Main toolbar

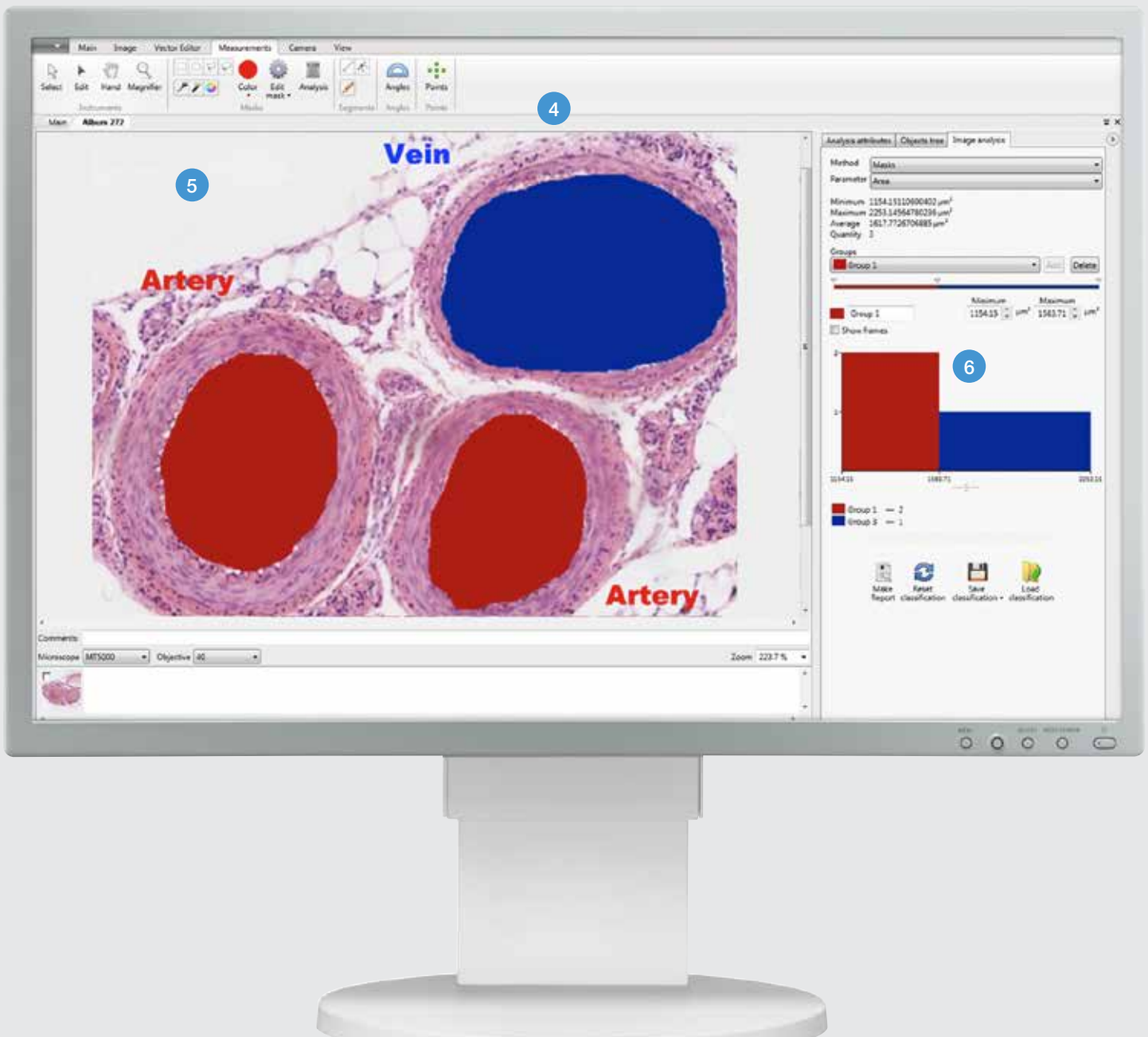
Basic working tools for managing patient records and analysis results. The toolbar has minimal size to retain space for working with images

6 Image analysis

Classification of analysed objects according to a required criteria and report generation. Analysis results are displayed in the form of histograms, charts and tables.

5 Digital sample

Leave your comments directly on the digital sample image. Organization and editing of a virtual sample.



MX Vision Bio® Analyze system for analysis in biology and medicine

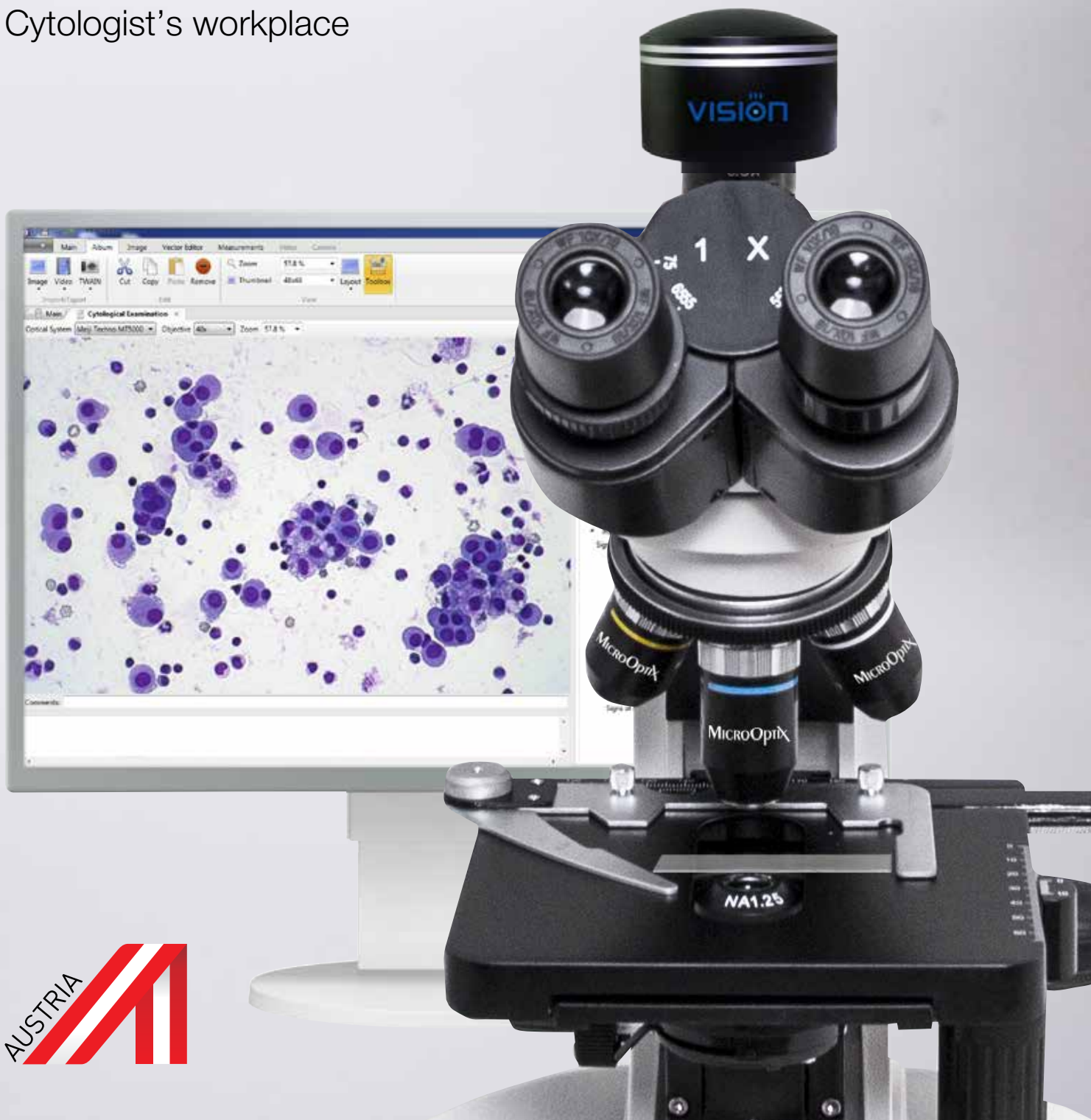
General characteristics

Working modes	sample visualization and analysis
Instruments	analysis and classification of elements, calculation of optical and geometric parameters of the selected object, statistics, report generation
Image capture	manual
Method	bright field
Optical system	4x, 10x, 40x, 100x oil
Microscopic slides	standard 75x25 mm, 1.1 mm thick
Database	multiple systems can share one database; archiving of results via transfer to external storage media
Software	<p>Vision Bio® Analyze</p> <ul style="list-style-type: none"> — storage, statistic handling and quick search — a professional set of tools to work with digital samples: create, edit, organize, classify and comment — analysis report templates. Customizable report reference guide to fit your personal requirements — report contains: images, analysis parameter fields, measurement units and reference range — calculation of geometric parameters in standard measurement units — automated and manual calculation of optical and geometric parameters of a selected object. Tools to create marks and comments on the digital sample — automated classification of analyzed objects according to a required criterion and report generation. Analysis results are displayed in the form of histograms, charts and tables
Options*	dark field, phase contrast, polarization, fluorescence, additional magnifications

* please mention all options required at a time of ordering

MX Vision Cyto[®]

Cytologist's workplace



MX Vision Cyto[®]

Digital cytology

Organization and interpretation of cytological examinations

Hints from the atlas

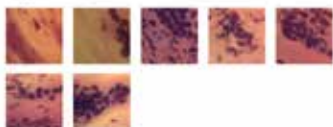
Develop your professional expertise by creating and maintaining an atlas. Add images with comments for later reference.

Non-keratinizing squamous cell carcinoma

Pharyngeal swab



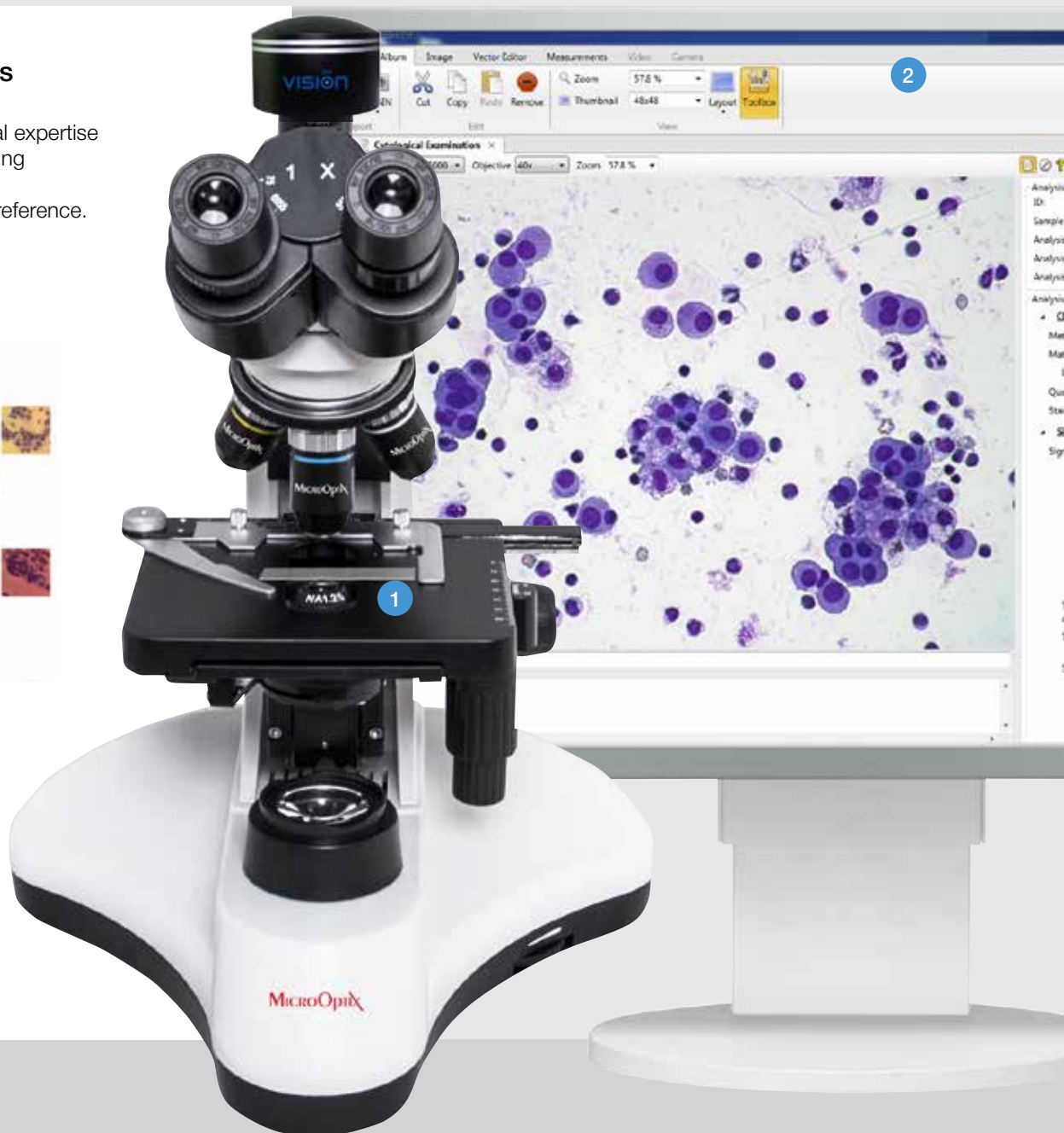
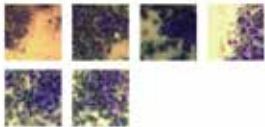
Vaginal smear



Low differentiated carcinoma of lung



Papillary thyroid carcinoma



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: Azure-eosin (Romanovsky, Pappenheim)

➤ **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

- Karyorhexis
- 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

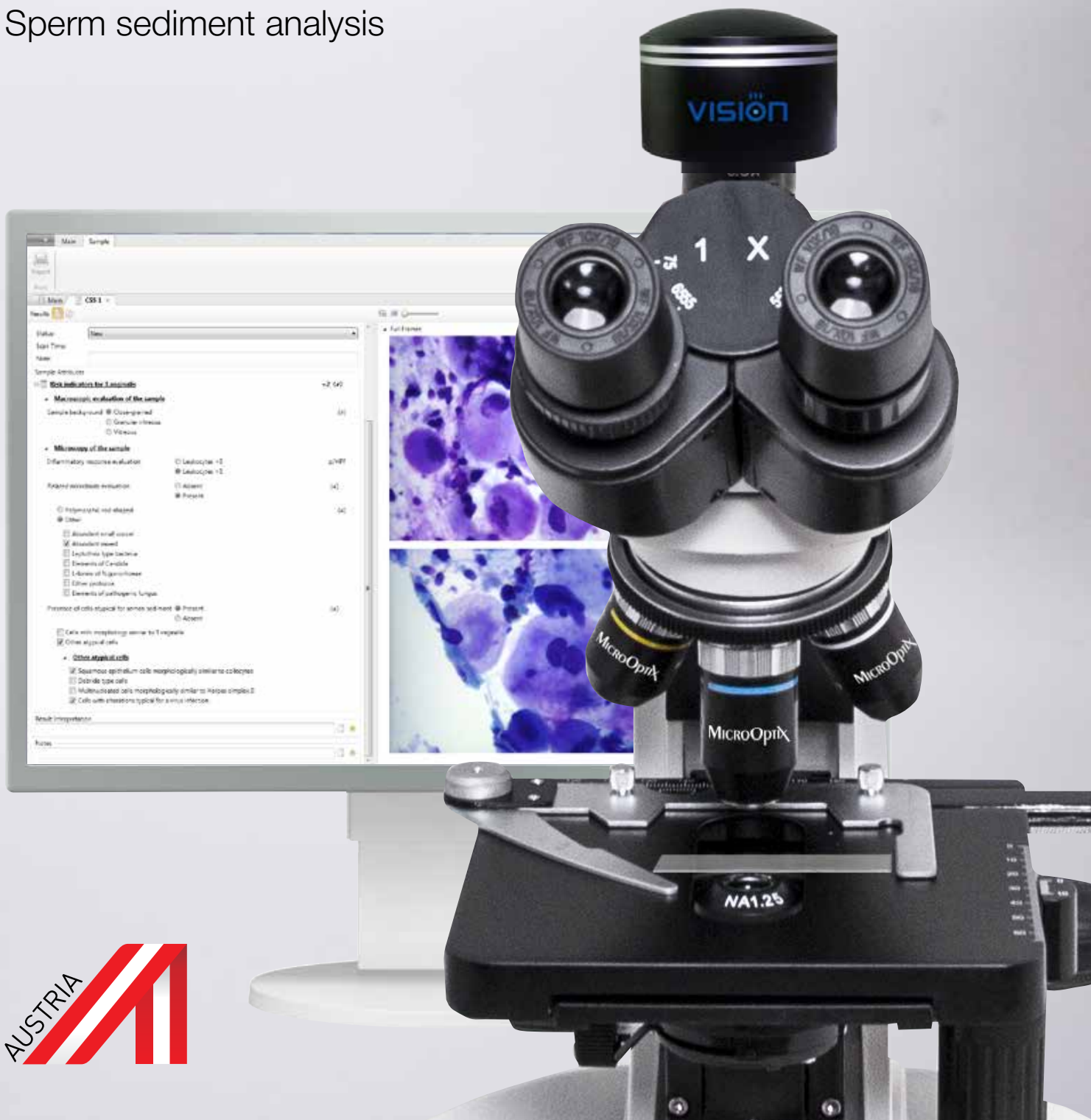
MX Vision Cyto® system for cytological analysis

General characteristics

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

MX Vision Sperm Sediment®

Sperm sediment analysis



MX Vision Sperm Sediment®

Sperm sediment analysis

Cytological analysis of sperm sediment



Examination

- latent trichomoniasis
- fungal infections
- HPV infections
- disbiosis



- A pre-set algorithm for analysis of sperm sediment
- Automatic calculation of CSS (*Cytology of Sperm Sediment*) index
- Telemedicine and remote consultations with colleagues
- Database management

A pre-set algorithm for cytology analysis of sperm sediment

Analysis algorithm for examination based on cell's morphological markers

Sample Attributes

Risk Indicators for T.vaginalis =2 (*)

➤ **Macroscopic evaluation of the sample**

Sample background Close-grained (x)
 Granular vitreous
 Vitreous

➤ **Microscopy of the sample**

Inflammatory response evaluation Leukocytes >3 p/HPF
 Leukocytes <3

Related microbiota evaluation Absent (*)
 Present

Polymorphic rod-shaped (*)
 Other

Abundant small coccid
 Abundant mixed
 Leptothrix type bacteria
 Elements of Candida
 L-forms of N.gonorrhoeae
 Other protozoa
 Elements of pathogenic fungus

Presence of cells atypical for semen sediment Present (*)
 Absent

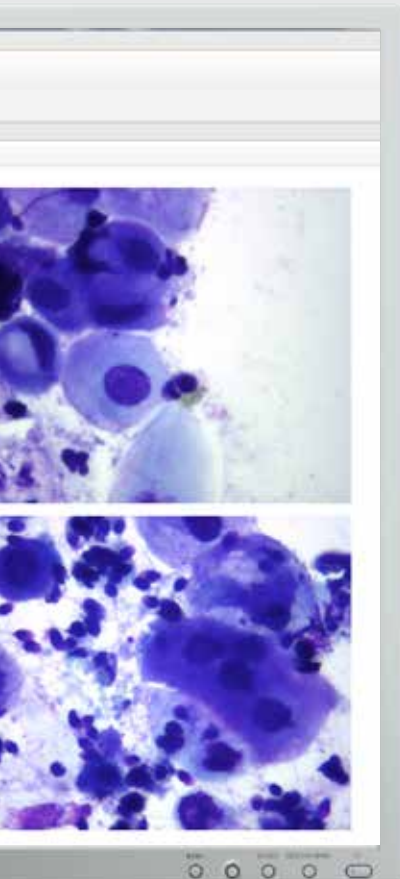
Cells with morphology similar to T.vaginalis
 Other atypical cells

➤ **Other atypical cells**

Squamous epithelium cells morphologically similar to coilocytes
 Debride type cells
 Multinucleated cells morphologically similar to Herpes simplex II
 Cells with alterations typical for a virus infection

Result Interpretation

Notes



Combination of modern technology and classical microscopy extends working possibilities

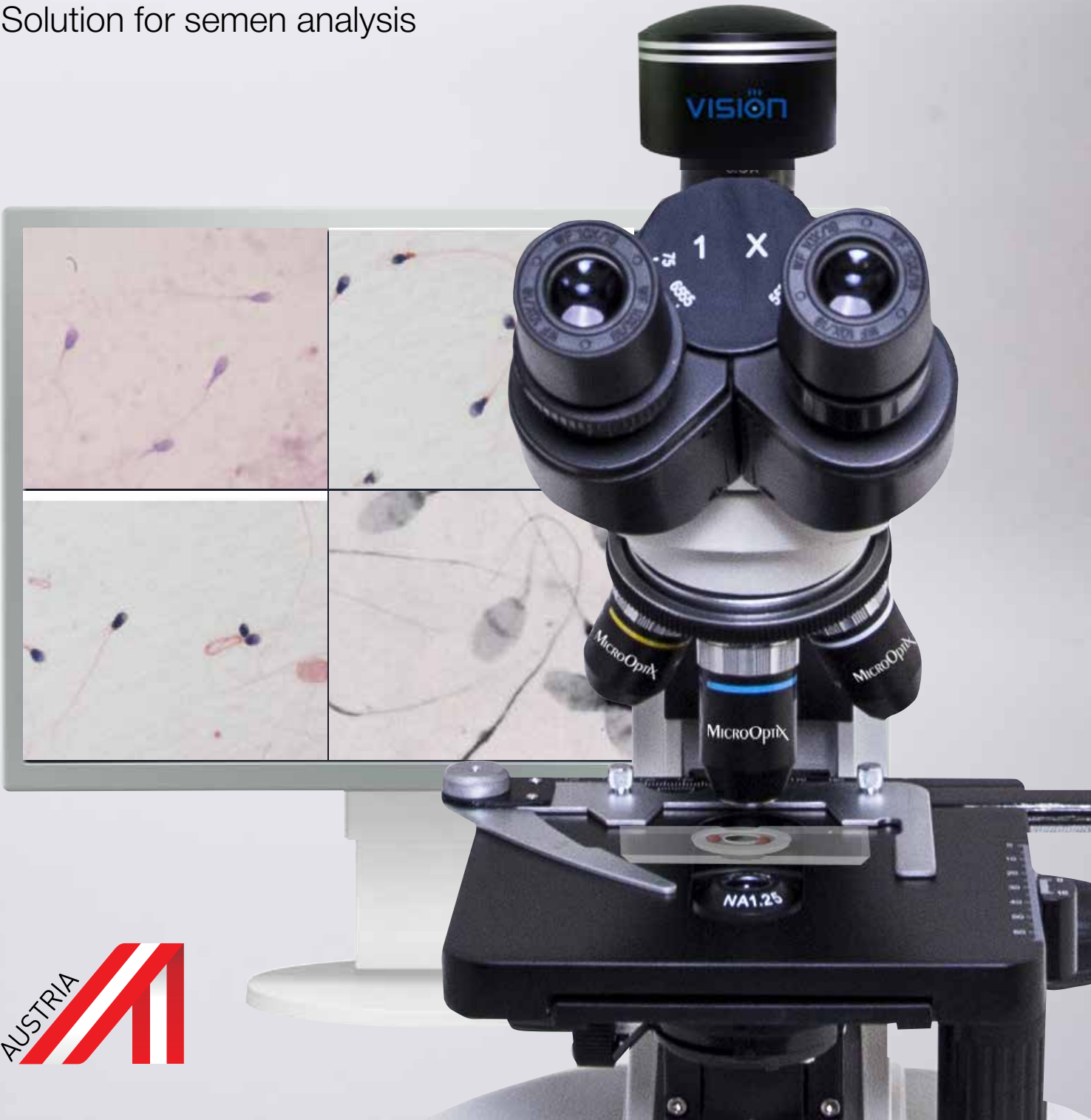
MX Vision Sperm Sediment® system for analysis of sperm sediment

General characteristics

Working modes	scanning of cytology sperm sediment samples
Simultaneous loading	1 slide
Slide handling	manual, successive
Optical system	4x, 10x, 40x, 100x oil
Validation	according to the pre-set cytology algorithm
Microscopic slides	standard 75x25 mm, 1.1 mm thick
Communication	bi-directional LIS, LIS2-A2 (ASTM), Ethernet
Multiple user access	4 pre-set types of users: Administrator, Doctor, Technician, Receptionist; new types of users can be added; adjustable access rights for users
Database	multiple systems can share one database; archiving of results via transfer to external storage media
Software	<p>Vision Sperm® Sediment</p> <ul style="list-style-type: none"> — allows to specialists to easily diagnostic latent trichomoniasis, fungal, HPV infections, disbiosis and etc. — reported results based on cell's morphological markers — automatic calculation of diagnostic CSS index — capture of required fields of view — creation of cytology sample gallery — database for achive managment — remote access and network capabilities

MX Vision Sperm[®]

Solution for semen analysis



MX Vision Sperm[®]

Semen microscopy system

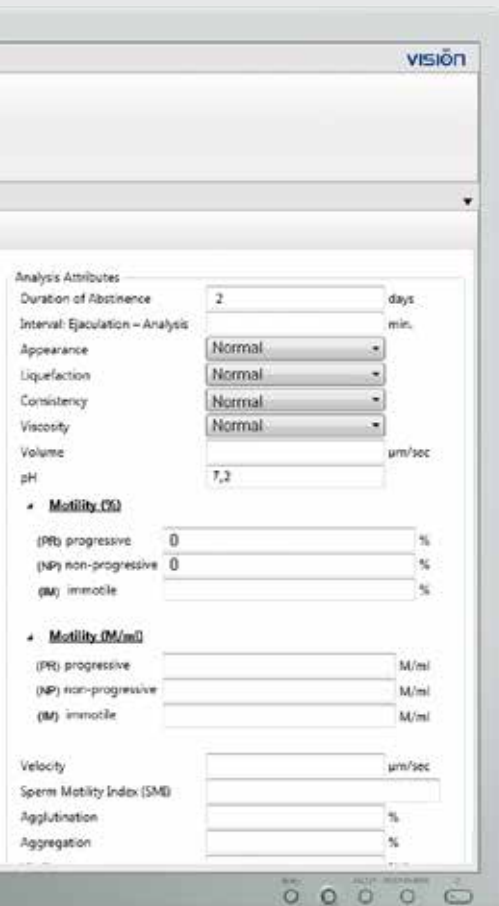
Organization and interpretation of sperm morphology analysis



- Excellent image of sperm samples due to camera with high resolution
- Sample image analysis and classification
- Semen objects atlas for identification, especially in difficult cases
- Database and archive management

Preset algorithm of sperm analysis by WHO

Indispensable assistant offers a researcher the standardized algorithm of sperm analysis.



Analysis Attributes		
Duration of Abstinence	2	days
Interval: Ejaculation - Analysis		min.
Appearance	Normal	
Liquefaction	Normal	
Consistency	Normal	
Viscosity	Normal	
Volume		µm/sec
pH	7,2	
▲ Motility (%)		
(PR) progressive	0	%
(NP) non-progressive	0	%
(IM) immotile		%
▲ Motility (M/ml)		
(PR) progressive		M/ml
(NP) non-progressive		M/ml
(IM) immotile		M/ml
Velocity		µm/sec
Sperm Motility Index (SMI)		
Agglutination		%
Aggregation		%
Vitality		% live
Concentration		M/ml
Total Sperm Number		
▲ Morphology		
Normal	15,4	%
Head Defects	42,3	%
Neck or Midpiece Defects	29,3	%
Tail Defects	24,7	%
Cytoplasmic Defects	43,5	%
Functional Sperm Concentration (FSC)		
Teratozoospermia Index (TZI)		
White Blood Cells (WBC)		M/ml
Red Blood Cells (RBC)		M/ml
Immature Germ Cells		M/ml
Immunobead / MAR test		%
MAR test		%
▲ Biochemistry		
Zinc		mmol/l
Fructose		mmol/l
α-glucosidase neutral		U/l
Citric acid		mmol/l

MX Vision Sperm® system for semen analysis

General characteristics

Working modes	sample visualization and analysis
Instruments	preset algorithm of sperm analysis by WHO; analysis, measurement and classification of semen samples microscopy images; creating reports
Image capture	manual
Method	bright field
Optical system	4x, 10x, 40x, 100x oil
Microscopic slides	standard 75x25 mm, 1.1 mm thick
Database	multiple systems can share one database; archiving of results via transfer to external storage media
Software	<p>Vision Sperm®</p> <ul style="list-style-type: none"> — preset algorithm of sperm analysis by WHO — analysis, measurement and classification of semen samples microscopy images — a professional set of tools to work with digital samples: create, edit, organize, classify and comment — storage, statistic handling and quick search — remote accesse and network capabilities

MX Vision KaryoFISH®

Karyotyping and analysis using the FISH method



MX Vision KaryoFISH®

Karyotyping of chromosomes

A modern approach to chromosome analysis, using FISH method

- automatic separation of crossing over and touching chromosomes
- straightening of curved chromosomes
- automatic and manual object selection for measurement
- wide range of karyogram operations
- standard ideograms of different human chromosomal ISCN nomenclatures: 400, 550 or 850
- ideogram generation for future identification of chromosomes
- simultaneous comparison of chromosomes and ideograms
- karyotyping of animal and plant chromosomes



1 Digital camera
High resolution delivers superior image quality of a metaphase plate microscopy sample. An ultrasensitive camera detects even the weakest of signals.

2 Optical system
The combination of innovative technology and classical microscopy extends the working possibilities. If necessary, microscopy sample of a metaphase plate can be viewed through the eyepieces.

3 Fluorescence
A fluorescent unit provides a wide range of possibilities of the FISH method application.

4 Toolbar
The toolbar is designed according to the analysis' algorithm and ensures compliance with all the stages of the procedure, providing reliable results.

5 Karyotyping
An automated karyotyping with the possibility of manual correction.

6 Final image and pseudocoloring
The final image is generated by combining and pseudocoloring a serie of original monochrome images with different fluorescent stains.



MX Vision KaryoFISH® system for karyotyping and analysis using FISH method

General characteristics

Working modes	sample visualization and image capture
Instruments	automatic separation of crossing over and of touching chromosomes, straightening of curved chromosomes, automatic and manual object selection for measurement, generation of ideograms for future identification of chromosomes
Optical system	fluorescence: 10x, 20x, 40x, 100x oil; bright field: 100x
Microscopic slides	standard 75x25 mm, 1.1 mm thick
Database	archiving of results via transfer to external storage media
Software	<p>Vision Karyo® + Vision FISH®</p> <ul style="list-style-type: none"> — database of digital samples — reference guide for ideograms — a professional set of tools to work with digital samples of metaphase plates: create, edit, organize, classify and comment — karyotyping of human chromosomes, karyotyping of plant and animal chromosomes — Fluorescence In Situ Hybridization method (FISH). Identification of specific DNA sequences directly in cytological and histological samples — statistics and quick search — remote access and network capabilities



MICROSCOPES & CAMERAS

MX 100 BIOLOGICAL MICROSCOPE

MX 300 BIOLOGICAL MICROSCOPE

MX 300 (F) FLUORESCENT MICROSCOPE

DIGITAL CAMERAS

MX 100 | Biological microscope

- Compensation binocular/trinocular head
- Quadruple ball-bearing nosepiece
- 4 objectives s-plan achromat: 4x/0,10, 10x/0,25, 40x/0,65, 100x/1,25 (oil)
- Coaxial coarse and calibrated fine focus control
- Built-in LED illumination adjustable 12 V, 3 W
- Double layer specimen stage
- Optical system provided with Anti-Fungus treatment
- Optimal microscope for your laboratory



Specification

General characteristics

Magnification	up to 1000x
Head	— compensation binocular (MX 100) or trinocular (MX 100 T) head — 360° rotatable, 30° inclined, interpupillary distance 55–75 mm
Eyepiece	WF 10x/18 mm widefield
Microscope body	sturdy metallic base 300x300 mm with supportive rubber feet
Nosepiece	quadruple reverse-angle
Objectives	s-plan achromat: 4x/0.10, 10x/0.25, 40x/0.65 (spring loaded), 100x/1.25 (spring loaded, oil)
Stage	double layer mechanical specimen stage, right handed, 130x140 mm
Abbe condenser	height adjustable, nA 1.25, with integrated iris diaphragm and filter tray
Focusing	— coaxial coarse and fine focus controls — stage focus control (protection of sample) — tension adjustment
Light source	LED 12 V, 3 W, adjustable
Power supply	built-in, 220 V, 50 Hz
Fuses	250 V, 2 A
Temperature, humidity	18–35 °C, less than 85 %
Weight	7 kg

MX 300 | Biological microscope

- Microscope with ICO Infinite optics
- High resolution optical system
- Quintuple reverse-angle ball-bearing nosepiece
- 5 objectives plan achromat: 4x/0,10, 10x/0,25, 20x/0,40, 40x/0,65, 100x/1,25 (oil)
- Koehler illumination system
- Built-in LED illumination adjustable 12 V, 3 W
- Double layer specimen stage
- Optical system provided with Anti-Fungus treatment
- Professional microscope for medicine and biology



Specification

General characteristics

Magnification	up to 1000x
Head	— infinite compensation binocular (MX 300) or trinocular (MX 300 T) head, — 360° rotatable, 30° inclined, ±5 D, interpupillary distance 55–75 mm
Eyepiece	WF 10x/18 mm widefield
Microscope body	sturdy metallic base 300x300 mm with supportive rubber feet
Nosepiece	quintuple reverse-angle
Objectives	objectives plan achromat ICO Infinite: 4x/0.10, 10x/0.25, 20x/0.40, 40x/0.65 (spring loaded), 100x/1.25 (spring loaded, oil)
Stage	double layer mechanical specimen stage, right handed, 130x140 mm
Abbe condenser	height adjustable, nA 1.25, with integrated iris diaphragm and filter tray
Focusing	— coaxial coarse and fine focus controls — stage focus control (protection of sample) — tension adjustment
Collector	Koehler illumination with auxiliary lens, field iris diaphragm and centering mechanism.
Light source	LED 12 V, 3 W, adjustable
Power supply	built-in, 220 V, 50 Hz
Fuses	250 V, 2 A
Temperature, humidity	18–35 °C, less than 85 %
Weight	7 kg

MX 300 (F) | Fluorescence microscope

- Fluorescence microscope with ICO Infnitive optics
- Ergonomical modern design
- Quintuple reverse-angle ball-bearing nosepiece
- 5 objectives s-plan achromat: 4x/0,10, 10x/0,25, 20x/0,40, 40x/0,65, 100x/1,25 (oil)
- Fluorescence attachment
- Fluorescence illumination system 100 W
- Double layer specimen stage
- Optical system provided with Anti-Fungus treatment
- Perfect microscope for fluorescence



Specification

General characteristics

Magnification	up to 1000x
Head	— infinite compensation binocular (MX 300 F) or trinocular (MX 300 TF) head — 360° rotatable, 30° inclined, ±5 D, interpupillary distance 55–75 mm
Eyepiece	WF 10x/18 mm widefield
Microscope body	sturdy metallic base 300x300 mm with supportive rubber feet
Nosepiece	quintuple reverse-angle
Objectives	plan achromat ICO Infnitive: 4x/0.10, 10x/0.25, 20x/0.40, 40x/0.65 (spring loaded), 100x/1.25 (spring loaded, oil)
Stage	double layer mechanical specimen stage, right handed, 135x140 mm
Abbe condenser	height adjustable, nA 1.25, with integrated iris diaphragm and filter tray
Focusing	— coaxial coarse and fine focus controls — stage focus control (protection of sample) — tension adjustment
Collector	Koehler illumination with auxiliary lens, field iris diaphragm and centering mechanism.
Light source	LED 12 V, 3 W, adjustable
Power supply	built-in, 220 V, 50 Hz
Fuses	250 V, 2 A
Temperature, humidity	18–35 °C, less than 85 %
Weight	7 kg
Fluorescence attachment	— for different methods of fluorescence analysis in microscopy — exciting light: 350–550 nm — fluorescence: 420–650 nm — the light-filter system of main body: 2 exciting filters, double direction dichroic mirror, 2 cut-off filters — filter blocks: V (blue), G (green), O (transmitted light) — exciting filters (EX): (V) EX490, (G) EX545 — bidirectional dichroic mirror: DM510, DM580 — cut-off filters (VA): VA530, VA590 — protective screen — HBO 100 W mercury lamp — power supply 220 V, 50 Hz

Digital cameras



CAM® V005 (C)

CAM® V009 (C)

CAM® V1200S (M)

Application	bright field microscopy	bright field microscopy	fluorescence microscopy and karyotyping
Megapixel	5.0 M	9.0 M	1.4 M
Resolution	2592x1944	3488x2616	1392x1040
Sensor	1/2,5", CCD	1/2,3", CCD	1/2", CCD
Output color	color	color	monochrome
Frame rate	6 fps	2 fps	15 fps
Exposure time	10 μ s – 32 ms	10 μ s – 32 ms	1/1000 – 16 s
Connection interface	USB 2.0	USB 2.0	USB 2.0
Objective mount	C-mount	C-mount	C-mount
Housing	aluminium	aluminium	aluminium
Power supply	via USB port	via USB port	via USB port or external 5 V DC
Screen size	—	—	—



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