

2020

**MICROSCOPY**

MICROOPTIX | MASTER 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 Wiener Neudorf 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.**

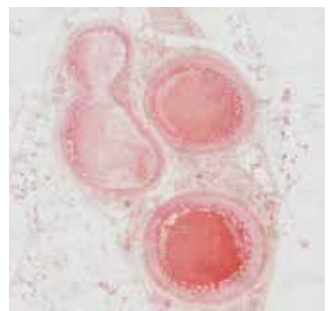
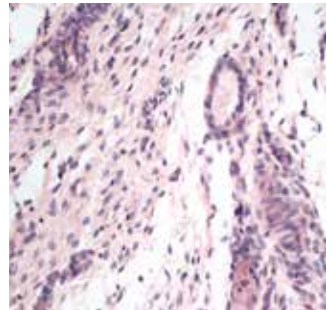
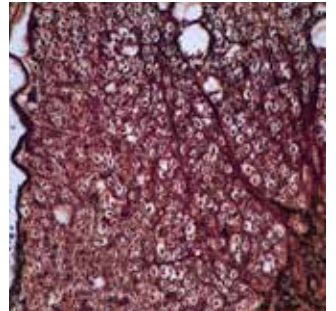
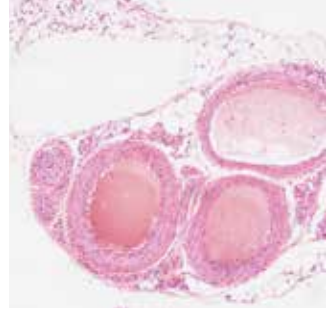
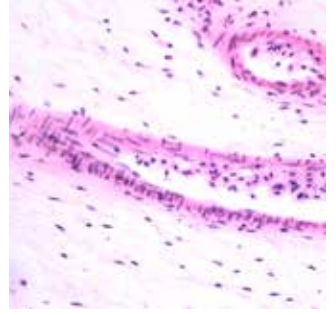


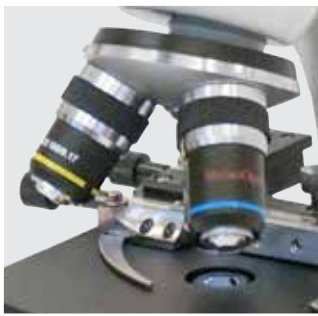
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# BUDGET LABORATORY MICROSCOPES

**MX 05 MONOCULAR MICROSCOPE**

**MX 10 (M) MONOCULAR MICROSCOPE**

**MX 10 (B) BINOCULAR MICROSCOPE**

**MX 20 BINOCULAR MICROSCOPE**

**MX 50 BINOCULAR MICROSCOPE**

**MX 50 (D) DIGITAL MICROSCOPE**

## MX 05 | Monocular microscope

- Triple objective nosepiece
- 45° inclined head
- 3 objectives achromat: 4x/0.10, 10x/0.25, 40x/0.65
- Widefield eyepieces: 10x/18
- Built-in LED illumination adjustable 5 V, 1 W
- Up and down illumination



### Specification

#### General characteristics

<b>Viewing Head</b>	monocular head, Inclined at 45°
<b>Eyepiece</b>	WF10x/18
<b>Objective</b>	Achromat: 4x/0.10, 10x/0.25, 40x/0.65
<b>Condenser</b>	NA0.65 with Disc Diaphragm
<b>Nosepiece</b>	triple nosepiece
<b>Stage</b>	Plain Stage with slide clips 95x95 mm
<b>Illumination</b>	up and down LED illumination
<b>Focusing System</b>	coaxial coarse and fine adjustment
<b>Additionally (on request)</b>	objectives, digital cameras, software for management of digital albums

### Ordering Information

#### Description

#### Code

MX 05 monocular microscope, standard set

09.0005.01

## MX 10 (M) | Monocular microscope

- Economical monocular microscope
- Triple objective nosepiece
- 45° inclined monocular head
- 3 objectives achromat: 4x/0.10, 10x/0.25, 40x/0.65
- Widefield eyepieces: 10x/18 mm
- Built-in LED illumination adjustable 5 V, 1 W
- Double layer mechanical specimen stage



### Specification

#### General characteristics

<b>Magnification</b>	up to 400x
<b>Head</b>	monocular tube, 45° inclined
<b>Eyepiece</b>	WF 10x/18 mm widefield
<b>Microscope body</b>	metallic base with supportive rubber feet
<b>Nosepiece</b>	triple objective
<b>Objectives</b>	achromat: 4x/0.10, 10x/0.25, 40x/0.65 (spring loaded)
<b>Stage</b>	double layer mechanical specimen stage, right handed, 115x125 mm
<b>Abbe condenser</b>	height adjustable, nA 1.2, with integrated iris diaphragm and filter tray, with green filter
<b>Focusing</b>	— coaxial coarse and fine focus controls — safety autofocus stop unit
<b>Light source</b>	LED 5 V, 1 W
<b>Power supply</b>	220 V, 50 Hz
<b>Fuses</b>	250 V, 2 A
<b>Temperature, humidity</b>	18–35 °C, less than 85 %
<b>Weight</b>	3.2 kg

### Ordering Information

#### Description

#### Code

MX 10 (M) monocular microscope, standard set

09.0011.01

## MX 10 (B) | Binocular microscope

- Economical binocular microscope
- Quadruple objective nosepiece
- Sliding binocular head
- 4 objectives achromat: 4x/0.10, 10x/0.25, 40x/0.65, 100x/1.25 (oil)
- Widefield eyepieces: 10x/18 mm
- Built-in LED illumination adjustable 5 V, 1 W
- Double layer mechanical specimen stage



### Specification

#### General characteristics

<b>Magnification</b>	up to 1000x
<b>Head</b>	compensation binocular head, 45° inclined, interpupillary distance 55–75 mm
<b>Eyepiece</b>	WF 10x/18 mm widefield
<b>Microscope body</b>	metallic base with supportive rubber feet
<b>Nosepiece</b>	quadruple objective
<b>Objectives</b>	achromat: 4x/0.10, 10x/0.25, 40x/0.65 (spring loaded), 100x/1.25 (spring loaded, oil)
<b>Stage</b>	double layer mechanical specimen stage, right handed, 115x125 mm
<b>Abbe condenser</b>	height adjustable, nA 1.25, with integrated iris diaphragm and filter tray, with green filter
<b>Focusing</b>	— coaxial coarse and fine focus controls — safety autofocus stop unit
<b>Light source</b>	LED 5 V, 1 W
<b>Power supply</b>	external adapter 5 V DC, 220 V, 50 Hz
<b>Temperature, humidity</b>	18–35 °C, less than 85 %
<b>Weight</b>	3.8 kg

### Ordering Information

#### Description

#### Code

MX 10 (B) binocular microscope, standard set

09.0011.02



## MX 20 | Binocular microscope

- Ergonomic metal body
- Compensation binocular head
- Quadruple objective nosepiece
- 4 objectives achromat: 4x/0.10, 10x/0.25, 40x/0.65, 100x/1.25 (oil)
- Coaxial coarse and calibrated fine focus control
- Built-in halogen illumination adjustable 6 V, 20 W
- Optical system provided with Anti-Fungus treatment



### Specification

#### General characteristics

<b>Magnification</b>	up to 1000x
<b>Head</b>	compensation binocular head, 360° rotatable, 30° inclined, interpupillary distance 55–75 mm
<b>Eyepiece</b>	WF 10x/18 mm widefield
<b>Microscope body</b>	metallic base with supportive rubber feet
<b>Nosepiece</b>	quadruple objective
<b>Objectives</b>	achromat: 4x/0.10, 10x/0.25, 40x/0.65 (spring loaded), 100x/1.25 (spring loaded, oil)
<b>Stage</b>	double layer mechanical specimen stage, 120x120 mm
<b>Abbe condenser</b>	height adjustable, nA 1.25, with integrated iris diaphragm and filter tray, with blue and green filters
<b>Focusing</b>	— coaxial coarse and fine focus controls — safety autofocus stop unit
<b>Light source</b>	halogen lamp, 6 V, 20 W, adjustable
<b>Power supply</b>	220 V, 50 Hz
<b>Fuses</b>	250 V, 2 A
<b>Temperature, humidity</b>	18–35 °C, less than 85 %
<b>Weight</b>	3.8 kg

### Ordering Information

#### Description

#### Code

MX 20 binocular microscope, standard set

09.0021.02

## MX 50 | Binocular microscope

- Compensation binocular head
- Quadruple ball-bearing nosepiece
- 4 objectives achromat: 4x/0.10, 10x/0.25, 40x/0.65, 100x/1.25 (oil)
- Mechanical stage
- Coaxial coarse and calibrated fine focus control
- Built-in LED illumination adjustable 3 V, 1 W
- Optical system provided with Anti-Fungus treatment
- Optimal price/quality ratio



### Specification

#### General characteristics

<b>Magnification</b>	up to 1000x
<b>Head</b>	compensation binocular head, 360° rotatable, 30° inclined, interpupillary distance 55–75 mm
<b>Eyepiece</b>	WF 10x/18 mm widefield
<b>Microscope body</b>	metallic base with supportive rubber feet
<b>Nosepiece</b>	quadruple objective
<b>Objectives</b>	achromat: 4x/0.10, 10x/0.25, 40x/0.65 (spring loaded), 100x/1.25 (spring loaded, oil)
<b>Stage</b>	double layer mechanical specimen stage, left-handed, 120x125 mm (right-handed stage available as option)
<b>Abbe condenser</b>	height adjustable, nA 1.25, with integrated iris diaphragm and filter tray
<b>Focusing</b>	— coaxial coarse and fine focus controls — safety autofocus stop unit
<b>Light source</b>	LED 3 V, 1 W, adjustable
<b>Power supply</b>	220 V, 50 Hz
<b>Temperature, humidity</b>	18–35 °C, less than 85 %
<b>Weight</b>	5.6 kg

### Ordering Information

#### Description

#### Code

MX 50 binocular microscope, standard set

09.0050.02

## MX 50 (D) | Digital microscope with integrated camera

- For small sized labs and veterinary practice
- Compensation binocular head with integrated camera
- Quadruple ball-bearing nosepiece
- 4 objectives achromat: 4x/0.10, 10x/0.25, 40x/0.65, 100x/1.25 (oil)
- Mechanical stage
- Coaxial coarse and calibrated fine focus control
- Built-in LED illumination adjustable 3 V, 1 W



### Specification

#### General characteristics

<b>Magnification</b>	up to 1000×
<b>Head</b>	compensation binocular head, 360° rotatable, 30° inclined, interpupillary distance 48–75 mm
<b>Eyepiece</b>	WF 10x/18 mm widefield
<b>Nosepiece</b>	quadruple objective
<b>Objectives</b>	achromat: 4x/0.10, 10x/0.25, 40x/0.65, 100x/1.25
<b>Stage</b>	double layer mechanical specimen stage, right-handed, 132x142 mm
<b>Abbe condenser</b>	height adjustable, nA 1.25, with integrated iris diaphragm and filter tray
<b>Focusing</b>	— coaxial coarse and fine focus controls — stage focus control (protection of sample) — tension adjustment
<b>Light source</b>	LED 3 V, 1 W, adjustable
<b>Power supply</b>	220 V, 50 Hz

### Ordering Information

#### Description

#### Code

MX 50 (D) digital microscope, standard set

09.0051.02

## MX 05, MX 10, MX 20, MX 50, MX 50 (D) | Components and accessories

### Ordering Information

#### Description

#### Code

#### Eyepieces

Eyepiece H 5x	09.0002.01
Eyepiece wide field WF10x/18	09.0002.02
Eyepiece wide field WF10x/18, with pointer	09.0002.03
Eyepiece wide field WF10x/18, with scale, resolution 0.01 mm	09.0002.04
Eyepiece wide field P16x/12	09.0002.05
Eyepiece extra wide field EW 10x/20	09.0002.06
Eyepiece wide field WF 20x	09.0002.07

#### Objectives (classical optics)

Objective achromat 4x/0.10	09.0003.01
Objective achromat 10x/0.25	09.0003.02
Objective achromat 20x/0.40	09.0003.03
Objective achromat 40x/0.65, spring-loaded	09.0003.04
Objective achromat 60x/0.80, spring-loaded	09.0003.05
Objective achromat 100x/1.25, spring-loaded, for oil immersion	09.0003.06
Objective plan achromat 4x/0.10	09.0003.12
Objective plan achromat 10x/0.25	09.0003.13
Objective plan achromat 40x/0.65, spring-loaded	09.0003.15
Objective plan achromat 100x/1.25, spring-loaded, for oil immersion	09.0003.17

#### Object-micrometer

Object-micrometer 0.01 mm	09.0007.01
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#### Filters

Blue filter	09.0004.01
Green filter	09.0004.02
Yellow filter	09.0004.03
Matted filter	09.0004.04

#### Lamps and LED

Lamp 6 V, 20 W	09.0005.01
LED element 5 V, 1W with board for MX 10	09.0005.02
LED element 3 V, 1W with board for MX 50	09.0005.03



## BIOLOGICAL LABORATORY MICROSCOPES

**MX 100 BIOLOGICAL MICROSCOPE**

**MX 300 BIOLOGICAL MICROSCOPE**

**MX 300 (F) FLUORESCENT MICROSCOPE**

**MX 300 (TF LED) FLUORESCENT MICROSCOPE**

**MX 800 / MX 800 (L) BIOLOGICAL MICROSCOPES**

**MX 800 (TS) BIOLOGICAL MICROSCOPE**

**MX 800 MULTI-USER MICROSCOPES**

## 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

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

### Ordering Information

#### Description

#### Code

MX 100 binocular biological microscope, standard set  
MX 100 (T) trinocular biological microscope, standard set

09.0100.02  
09.0100.03

## MX 100 | Components and accessories

Ordering Information	
Description	Code
<b>Viewing heads</b>	
Compensation binocular head	09.0001.02
Compensation trinocular head	09.0001.03
<b>Eyepieces</b>	
Eyepiece H 5x	09.0002.01
Eyepiece wide field WF10x/18	09.0002.02
Eyepiece wide field WF10x/18, with pointer	09.0002.03
Eyepiece wide field WF10x/18, with scale, resolution 0.01 mm	09.0002.04
Eyepiece wide field P16x/12	09.0002.05
Eyepiece extra wide field EW 10x/20	09.0002.06
Eyepiece wide field WF 20x	09.0002.07
<b>Objectives</b>	
Objective s-plan achromat 4x/0.10	09.0003.07
Objective s-plan achromat 10x/0.25	09.0003.08
Objective s-plan achromat 20x/0.40	09.0003.09
Objective s-plan achromat 40x/0.65, spring-loaded	09.0003.10
Objective s-plan achromat 100x/1.25, spring-loaded (oil)	09.0003.11
Objective plan achromat 4x/0.10	09.0003.12
Objective plan achromat 10x/0.25	09.0003.13
Objective plan achromat 20x/0.40	09.0003.14
Objective plan achromat 40x/0.65, spring-loaded	09.0003.15
Objective plan achromat 60x/0.80, spring-loaded	09.0003.16
Objective plan achromat 100x/1.25, spring-loaded (oil)	09.0003.17
<b>Object-micrometer</b>	
Object-micrometer 0.01 mm	09.0007.01
<b>Condenser</b>	
Dry dark field condenser, nA 0.9	09.0007.03
<b>Polarizing set</b>	
Polarization set. Includes polarizer and analyzer	09.0008.01
<b>Phase-contrast kit</b>	
Turret phase-contrast kit, including: turret annular condenser, Zernike type, objectives plan phase 10x/0.25, 20x/0.40, 40x/0.65, 100x/1.25 (oil), telescope	09.0008.02
<b>Filters</b>	
Blue filter	09.0004.01
Green filter	09.0004.02
Yellow filter	09.0004.03
Matted filter	09.0004.04
<b>LED</b>	
LED element 12 V, 3 W with board, for MX 100	09.0005.04

## 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

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

### Ordering Information

#### Description

#### Code

MX 300 binocular biological microscope, standard set  
MX 300 (T) trinocular biological microscope, standard set

09.0300.02  
09.0300.03



## 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

<b>Magnification</b>	up to 1000x
<b>Head</b>	— infinite compensation binocular (MX 300 (F)) or trinocular (MX 300 (TF)) head — 360° rotatable, 30° inclined, ±5 D, interpupillary distance 55–75 mm
<b>Eyepiece</b>	WF 10x/18 mm widefield
<b>Microscope body</b>	sturdy metallic base 300x300 mm with supportive rubber feet
<b>Nosepiece</b>	quintuple reverse-angle
<b>Objectives</b>	plan achromat ICO Infnitive: 4x/0.10, 10x/0.25, 20x/0.40, 40x/0.65 (spring loaded), 100x/1.25 (spring loaded, oil)
<b>Stage</b>	double layer mechanical specimen stage, right handed, 135x140 mm
<b>Abbe condenser</b>	height adjustable, nA 1.25, with integrated iris diaphragm and filter tray
<b>Focusing</b>	— coaxial coarse and fine focus controls — stage focus control (protection of sample) — tension adjustment
<b>Collector</b>	Koehler illumination with auxiliary lens, field iris diaphragm and centering mechanism.
<b>Light source</b>	LED 12 V, 3 W, adjustable
<b>Power supply</b>	built-in, 220 V, 50 Hz
<b>Fuses</b>	250 V, 2 A
<b>Temperature, humidity</b>	18–35 °C, less than 85 %
<b>Weight</b>	7 kg
<b>Fluorescence attachment</b>	— 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

### Ordering Information

#### Description

#### Code

MX 300 (F) binocular fluorescence microscope, standard set  
MX 300 (TF) trinocular fluorescence microscope, standard set

09.0301.02  
09.0301.03

## MX 300 (TF LED) | Biological microscope

- ICO Infinite optics
- Compensation trinocular head
- Quintuple objective nosepiece
- 4 objectives s-plan achromat: 4x/0.10, 10x/0.25, 40x/0.65, 100x/1.25 (oil)
- Fluorescence attachment with LED illumination
- Built-in LED illumination adjustable system 12 V, 3 W
- Double layer specimen stage
- Optical system provided with Anti-Fungus treatment



### Specifications

#### General characteristics

<b>Magnification</b>	up to 1000x
<b>Head</b>	compensation trinocular head, 360° rotatable, 30° inclined, interpupillary distance 48–75 mm
<b>Eyepiece</b>	WF 10x/18 mm widefield
<b>Microscope body</b>	metallic base with supportive rubber feet
<b>Nosepiece</b>	quintuple objective nosepiece
<b>Objectives</b>	s-plan achromat: 4x/0.10, 10x/0.25, 40x/0.65 (spring loaded), 100x/1.25 (spring loaded, oil)
<b>Stage</b>	double layer mechanical specimen stage, right handed, 132x142 mm
<b>Abbe condenser</b>	height adjustable, nA 1.25, with integrated iris diaphragm and filter tray, with green filter
<b>Focusing</b>	— coaxial coarse and fine focus controls — safety autofocus stop unit — tension adjustment
<b>Light source</b>	LED 12 V, 3 W, adjustable
<b>Power supply</b>	220 V, 50 Hz
<b>Temperature, humidity</b>	18–35 °C, less than 85 %
<b>Weight</b>	9.5 kg
<b>Fluorescence attachment</b>	— fluorescence: 460–490 nm — LED illumination 3 W — the light-filter system of main body: 1 exciting filter, double direction dichroic mirror, 1 cut-off filter — power supply 220 V, 50 Hz

### Ordering Information

Description	Code
MX 300 (TF LED) trinocular fluorescence microscope, standard set	09.0303.03

## MX 300 | Components and accessories

### Ordering Information

#### Description

#### Code

#### Viewing heads

Compensation binocular head for ICO Infinity corrected optics	09.0001.12
Compensation trinocular head for ICO Infinity corrected optics	09.0001.13

#### Eyepieces

Eyepiece H 5x	09.0002.01
Eyepiece wide field WF10x/18	09.0002.02
Eyepiece wide field WF10x/18, with pointer	09.0002.03
Eyepiece wide field WF10x/18, with scale, resolution 0.01 mm	09.0002.04
Eyepiece wide field P16x/12	09.0002.05
Eyepiece extra wide field EW 10x/20	09.0002.06
Eyepiece wide field WF 20x	09.0002.07

#### Objectives

Objective achromat ICO Infinity 4x/0.10	09.0003.18
Objective achromat ICO Infinity 10x/0.25	09.0003.19
Objective achromat ICO Infinity 40x/0.65, spring-loaded	09.0003.20
Objective achromat ICO Infinity 100x/1.25, spring-loaded, for oil immersion	09.0003.21
Objective plan achromat ICO Infinity 4x/0.10	09.0003.22
Objective plan achromat ICO Infinity 10x/0.25	09.0003.23
Objective plan achromat ICO Infinity 20x/0.40	09.0003.24
Objective plan achromat ICO Infinity 40x/0.65, spring-loaded	09.0003.25
Objective plan achromat ICO Infinity 100x/1.25, spring-loaded (oil)	09.0003.26

#### Object-micrometer

Object-micrometer 0.01 mm	09.0007.01
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#### Condensers

Bright field Abbe condenser, nA 1.25, with built-in iris-diaphragm and filter tray	09.0007.02
Dry dark field condenser, nA 0.9	09.0007.03

#### Polarizing set

Polarization set. Includes polarizer and analyzer	09.0008.01
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#### Phase-contrast kit ICO Infnitive

Turret phase-contrast kit, including: turret annular condenser, Zernike type, objectives ICO Infinity corrected plan phase 10x/0.25, 20x/0.40, 40x/0.65, 100/x1.25 (oil), centering telescope	09.0008.12
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## MX 300 | Components and accessories

Ordering Information	
Description	Code
<b>Fluorescence (luminescence)</b>	
Epi-fluorescence set The spectrum range of the exciting light and fluorescence are 350–550 nm and 420–650 nm respectively. For various technologies of fluorescent analysis in microscopy. The light-filter system of main body: 2 exciting filters, dichroic mirror, 2 cut-off filters; B (blue), G (green ), O (transmitted light). Exciting filters (EX) (B) EX490, (G) EX545. Double direction dichroic mirror: DM510, DM580. Cut-off filters (BA): BA530, BA590. Protective screen. Special fluorescence oil. HBO 100 W burner. Power AC 220 V 50 Hz	<b>09.0008.13</b>
UV filter system	<b>09.0008.04</b>
HBO 100W burner	<b>09.0005.02</b>
<b>Filters</b>	
Blue filter	<b>09.0004.01</b>
Green filter	<b>09.0004.02</b>
Yellow filter	<b>09.0004.03</b>
Matted filter	<b>09.0004.04</b>
<b>LED</b>	
LED element 12 V, 3 W with board for MX300	<b>09.0005.04</b>
<b>Additional for MX 300</b>	
Heating stage	<b>09.0008.03</b>

## MX 800 / MX 800 (L) | Research biological microscopes

- Binocular/trinocular head Siedentopf type, 360° rotatable, 30° inclined
- Revolving nosepiece for 5 objectives
- Coaxial coarse and calibrated fine focus control
- 4 objectives Plan Achromat ICO Infnitive: 4x/0.10, 10x/0.25, 40x/0.65, 100x/1.25 (oil)
- Wide field eyepieces 10x/20 mm
- Halogen illumination, LED illumination
- Abbe condenser nA 0.9 / 0.25
- Stage 185x142 mm with specimen holder for 2 slides



## MX 800 (TS) | Research biological microscope

- Ergonomic trinocular head adjustable inclination 5–35°
- Photo/video block with beam splitter 80/20 for mounting of digital camera or video camera
- Revolving nosepiece for 6 objectives
- Coaxial coarse and calibrated fine focus control
- 5 objectives Plan Achromat ICO Infnitive: 4x/0.10, 10x/0.25, 20x/0.40, 40x/0.65, 100x/1.25 (oil)
- Wide field eyepieces 10x/22 mm
- Halogen illuminator 24 V, 100 W
- Abbe condenser nA 0.9 / 0.25
- Stage 243x158 mm with specimen holder for 2 slides



### Ordering information

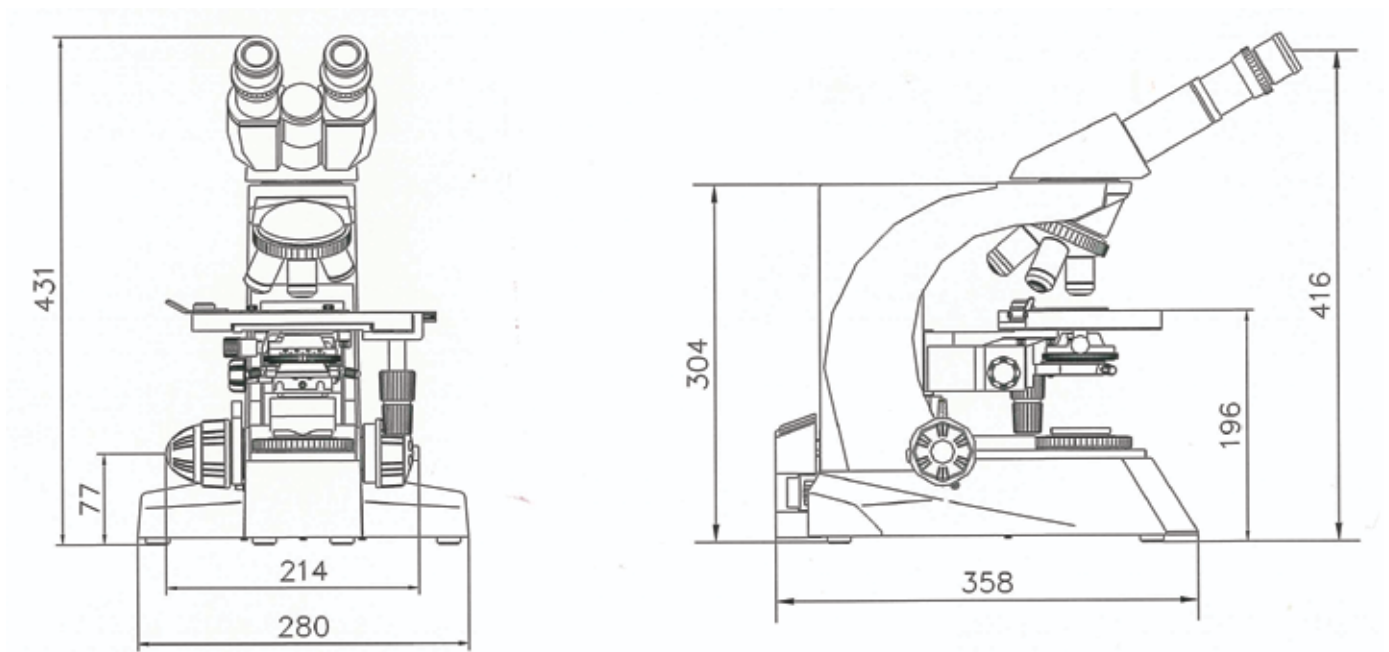
#### Description

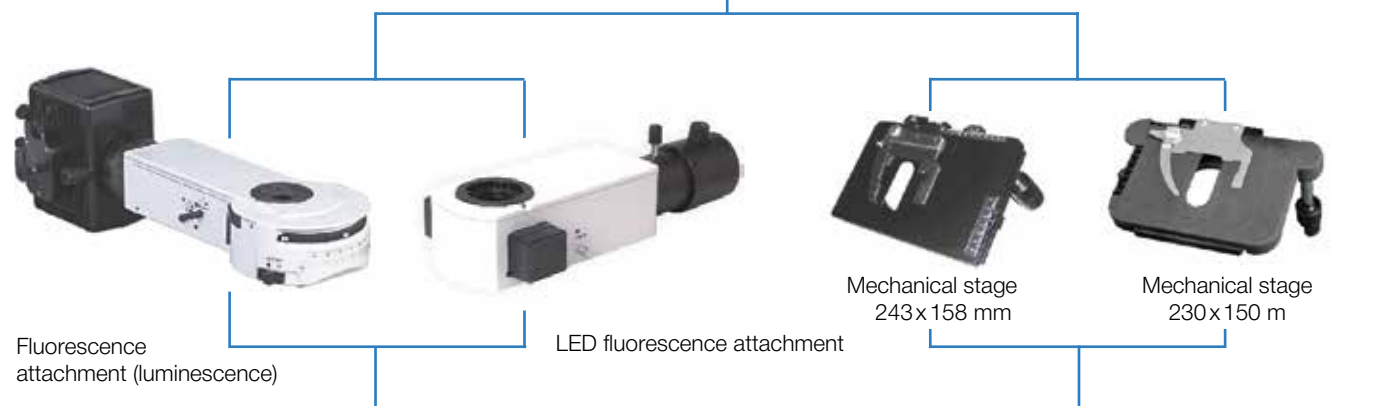
#### Code

Binocular biological microscope MX 800	09.0800.02
Trinocular biological microscope MX 800 (T)	09.0800.03
Binocular biological microscope MX 800 (L)	09.0801.02
Trinocular biological microscope MX 800 (TL)	09.0801.03
Trinocular biological microscope MX 800 (TS)	09.0802.03

## Specification

		MX 800	MX 800 (L)	MX 800 (T)	MX 800 (TL)	MX 800 (TS)
<b>Viewing head</b>	binocular head, 360° rotatable, 30° inclined, distance 48–75 mm	•	•			
	trinocular head, 360° rotatable, 30° inclined, distance 48–75 mm			•	•	
	ergonomic trinocular tube adjustable inclination 5–35°, distance 48–75 mm					•
<b>Eyepiece</b>	EW 10x/20 mm, widefield	•	•	•	•	
	EW 10x/22 mm, widefield					•
<b>Nosepiece</b>	quintuple reverse-angle	•	•	•	•	
	sextuple reverse-angle					•
<b>Objectives</b>	Plan Achromat: 4x/0.10, 10x/0.25, 40x/0.65 (spring loaded), 100x/1.25 (spring loaded, oil)	•	•	•	•	•
	Plan Achromat: 20x/0.40 (spring loaded)					•
<b>Stage</b>	double layer mechanical specimen stage 185x142 mm with specimen holder for 2 slides	•	•	•	•	
	double layer mechanical specimen stage 243x158 mm with specimen holder for 2 slides					•
<b>Abbe condenser</b>	height adjustable, nA 0.9 / 0.25, with integrated iris diaphragm and filter tray	•	•	•	•	•
<b>Light source</b>	halogen bulb, 6 V, 30 W	•		•		
	LED, 5 W		•		•	
	halogen bulb, 24 V, 100 W					•





## Ordering information

	Code
<b>Viewing heads</b>	
Compensation binocular head	09.0001.22
Compensation trinocular head	09.0001.23
Compensation trinocular head for fluorescence	09.0001.24
Ergonomic compensation binocular head	09.0001.25
Photo/video block with beam splitter 80/20 for mounting of digital camera	09.0001.26
<b>Eyepieces</b>	
EW 10x/20, wide field	09.0002.81
EW 10x/22, wide field	09.0002.82
EW 15x/16, wide field	09.0002.83
EW 20x/12, wide field	09.0002.84
<b>Objectives (ICO Infinite)</b>	
Plan Achromat 4x/0.10	09.0003.81
Plan Achromat 10x/0.25	09.0003.82
Plan Achromat 20x/0.40, spring-loaded	09.0003.83
Plan Achromat 40x/0.65, spring-loaded	09.0003.84
Plan Achromat 60x/0.80, spring-loaded	09.0003.85
Plan Achromat 100x/1.25, spring-loaded, for oil immersion	09.0003.86
<b>Objectives for fluorescence (ICO Infinite)</b>	
Plan Infinite for Fluorescence 4x/0.10	09.0003.91
Plan Infinite for Fluorescence 10x/0.25	09.0003.92
Plan Infinite for Fluorescence 20x/0.40, spring-loaded	09.0003.93
Plan Infinite for Fluorescence 40x/0.65, spring-loaded	09.0003.94
Plan Infinite for Fluorescence 100x/1.25, spring-loaded, for oil immersion	09.0003.95
<b>Objectives for dark field (ICO Infinite)</b>	
Plan Achromat 100x/1.25, spring-loaded, for oil immersion	09.0003.96
<b>Object-micrometer</b>	
Object-micrometer 0.01 mm	09.0007.01
<b>Condensers</b>	
Abbe bright field condenser, nA 0.9 / 0.25 with swing-out lens, built-in iris diaphragm and filter frame	09.0007.81
Dry dark filed condenser, nA 0.9	09.0007.82
Oil dark filed condenser, nA 0.9	09.0007.83
<b>Polarizing set</b>	
Polarization set. Includes polarizer and analyzer	09.0008.01
<b>Phase-contrast kit ICO Infinite</b>	
Turret phase-contrast kit	09.0008.02
<b>Fluorescence (luminescence)</b>	
Fluorescence 6-position set. Includes filter set Blue and filter set Green	09.0008.83
Additional filter set Blue one BP460~495/DM505/BA510-550	09.0008.84
Additional filter set Ultraviolet BP330~385/DM400/BA420	09.0008.85
Additional filter set Violet BP400~410/DM455/BA455	09.0008.86
HBO 100 W burner	09.0005.85
Neutral filter ND25/ND6	09.0004.85
<b>LED fluorescence (luminescence)</b>	
Fluorescence set with LED illumination (Blue)	09.0008.87
Fluorescence set with LED illumination (Green)	09.0008.88
<b>Mechanical stages</b>	
Mechanical stages 185x142 mm with specimen holder for 2 slides	09.0007.84
Mechanical stages 243x158 mm with specimen holder for 2 slides	09.0007.85
<b>Filters</b>	
Blue filter	09.0004.81
Green filter	09.0004.82
<b>LED and bulbs</b>	
LED element 5 W with board	09.0005.81
Halogen bulb 6 V, 30 W	09.0005.82
Halogen bulb 24 V, 100 W	09.0005.83
<b>C-mount adapters</b>	
Video adapter 0.5x	09.0006.05
Video adapter 1x	09.0006.06



# MX 800 | Multi-user microscopes

- Allow people to observe specimen at the same time
- For clinical labs, research and life-science labs and teaching demonstration



MX 800 (T2)



MX 800 (T3)



MX 800 (T5)



MX 800 (T3) with digital camera, monitor or PC

Specification		MX 800 / 2	MX 800 / 3	MX 800 / 5
<b>Viewing head</b>	binocular head, 360° rotatable, 30° inclined, distance 48–75 mm	1 pc.	2 pcs.	4 pcs.
	trinocular head, 360° rotatable, 30° inclined, distance 48–75 mm	1 pc.	1 pc.	1 pc.
<b>Eyepiece</b>	EW 10x/20 mm, widefield	4 pcs.	6 pcs.	10 pcs.
<b>Nosepiece</b>	quintuple reverse-angle	•	•	•
<b>Objectives</b>	Plan Achromat: 4x/0.10, 10x/0.25, 40x/0.65 (spring loaded), 100x/1.25 (spring loaded, oil)	•	•	•
<b>Stage</b>	double layer mechanical specimen stage 185 x 142 mm with specimen holder for 2 slides	•	•	•
<b>Abbe condenser</b>	height adjustable, nA 0.9 / 0.25, with integrated iris diaphragm and filter tray	•	•	•
<b>Light source</b>	halogen bulb, 24 V, 100 W	•	•	•
	LED, 5 W	○	○	○
<b>LED pointer</b>	green	•	•	•
	two color	○	○	○
<b>C-Mount adapter</b>	0.5x video adapter	○	○	○
	1x video adapter	○	○	○

• — standard set, ○ — optional

Ordering information	
Description	Code
MX 800 (T2) multi-user trinocular microscope. Version for 2 viewers	<b>80.0800.23</b>
MX 800 (T3) multi-user trinocular microscope. Version for 3 viewers	<b>80.0800.33</b>
MX 800 (T5) multi-user trinocular microscope. Version for 5 viewers	<b>80.0800.53</b>



# STEREO MICROSCOPES

- MX 1150 (T) STEREO MICROSCOPE
- MX 1200 STEREO MICROSCOPE
- MX 1400 STEREO MICROSCOPE

## MX 1150 (T) | Stereo microscope

- Professional ZOOM stereo microscope
- Trinocular tube for photo/video documentation
- Ergonomic design
- New optics with high resolution and large depth of field
- Zoom range: 8–50x (300x)
- Widefield eyepieces 10x/22 mm
- Illumination system: transmitted light, incident light
- LED illumination adjustable: incident and transmitted light
- Optical system provided with Anti-Fungus treatment



### Specification

#### General characteristics

<b>Magnification</b>	8–50x (300x)
<b>Head</b>	compensation trinocular head, 360° rotatable, 45° inclined, interpupillary distance 57–75 mm
<b>Eyepieces</b>	widefield WF 10x/22 mm
<b>Microscope body</b>	sturdy metallic base 180x240 mm with supportive rubber feet
<b>ZOOM tube</b>	0.8–50x, ZOOM ratio 6.3:1x
<b>Working distance</b>	115 mm
<b>Light source</b>	— adjustable — incident light: LED 12 V, 3 W — transmitted light: LED 12 V, 6 W
<b>Power requirements</b>	built-in, 220 V, 50 Hz
<b>Fuses</b>	250 V, 2 A
<b>Temperature, humidity</b>	18–35 °C, less than 85 %
<b>Fuses</b>	250 V, 2 A
<b>Temperature, humidity</b>	18–35 °C, less than 85 %

### Ordering Information

#### Description

#### Code

MX 1150 (T) trinocular stereo microscope, standard set

09.1500.03

## MX 1200 | Stereo microscope

- Trinocular ZOOM stereo microscope for microsurgery training
- New high resolution and depth of field optical system
- Widefield eyepieces EW10x/22
- Zoom range: 8–50x
- LED illumination adjustable: transmitted light
- Photo- and video documentation



### Specification

#### General characteristics

<b>Viewing Head</b>	trinocular viewing head, inclined at 45°
<b>Eyepiece</b>	wide field eyepiece EW10x/22
<b>Zoom objective</b>	0.8x–50x, ZOOM ratio 6.3:1x
<b>Working distance</b>	115 mm
<b>Interpupillary Distance</b>	52–75 mm
<b>Illumination</b>	transmitted illumination 100–240 V/LED
<b>Additionally (on request)</b>	digital cameras, software for management of digital albums, simulators for surgeons

### Ordering Information

#### Description

#### Code

MX 1200 binocular stereo microscope for microsurgery training, standard set

**09.1200.02**

MX 1200 (T) trinocular stereo microscope for microsurgery training, standard set

**09.1200.03**

## MX 1400 | Stereo microscope

- Binocular ZOOM stereo microscope
- Parallel optical ZOOM system
- Widefield eyepieces 10x/22 mm
- Zoom range: 8–80x
- Plan achromat objectives
- LED illumination adjustable: incident and transmitted light



### Specification

#### General characteristics

<b>Optical system</b>	parallel optical ZOOM
<b>Viewing head</b>	binocular Head, 20° Inclination
<b>Interpupillary distance</b>	55–75 mm
<b>Eyepiece</b>	widefield EW 10x/22
<b>ZOOM objective</b>	— 0.8–80x, ZOOM ratio 1:10 — Plan Achromatic Objective 1x
<b>Working distance</b>	78 mm
<b>Focusing</b>	— coaxial coarse and fine focusing unit — focusing Range 105 mm
<b>Illumination</b>	transmission or Reflection LED Illumination, Brightness Adjustable
<b>Additionally (on request)</b>	eyepieces, lamps, objectives, stands, photo/video trinocular head

### Ordering Information

Description	Code
MX 1400 professional stereo microscope, Set 1	09.1401.02
MX 1400 professional stereo microscope, Set 2	09.1402.02
MX 1400 professional stereo microscope, Set 3	09.1403.02
MX 1400 professional stereo microscope, Set 4	09.1404.02
MX 1400 professional stereo microscope, Set 5	09.1405.02

## MX 1150, MX 1200, MX 1400 | Components and accessories

### Ordering Information

Description	Code
-------------	------

#### Viewing heads

Binocular head	09.0001.22
Ergonomically binocular head, 0–30° inclination	09.0001.23
Photo/video attachment (1 port)	09.0001.24
Photo/video attachment (2 ports)	09.0001.25
Unit with iris diaphragm	09.0001.26

#### Light source

L150. Additional external light source. Halogen cold light source. 230 V/150 W. Light adjustment. 2 flexible light guides, 55 cm length	09.0005.03
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#### Eyepieces

Eyepiece wide field WF 10x/22	09.0002.08
Eyepiece wide field WF 5x	09.0002.09
Eyepiece wide field WF 12,5x	09.0002.10
Eyepiece wide field WF 15x/16	09.0002.11
Eyepiece wide field WF 20x/12	09.0002.12
Eyepiece wide field WF 30x	09.0002.13
Eyepiece wide field EW 10x/22	09.0002.14
Eyepiece wide field WF 15x/16	09.0002.15
Eyepiece wide field WF 20x/12	09.0002.16
Eyepiece wide field WF 30x	09.0002.17
Eyepiece wide field EW 10x/22	09.0002.18
Eyepiece wide field WF 20x/12	09.0002.21
Eyepiece wide field WF 30x	09.0002.22

#### Objectives for MX 1400

Achromat objective 0.3x, working distance 276 mm	09.0003.54
Achromat objective 0.5x, working distance 195 mm	09.0003.55
Plan achromat objective 0.5x, working distance 126 mm	09.0003.56
Plan achromat objective 1x, working distance 78 mm	09.0003.57
Plan achromat objective 2x, working distance 32,5 mm	09.0003.58
Adapter for objectives 0.5x	09.0003.59

#### Illumination for MX 1400

Annular fluorescent illuminator	09.0005.05
Annular LED illuminator	09.0005.07

#### Additional lenses for MX 1150

Additional lens 1.5x	09.0003.50
Additional lens 2x	09.0003.51
Additional lens 0.5x	09.0003.52
Additional lens 0.7x	09.0003.53

#### LED

LED element 12 V, 3 W with board for MX 1150, incident light	09.0005.05
LED element 12 V, 6 W with board for MX 1150, transmitted light	09.0005.06

## MX 1150, MX 1200, MX 1400 | Components and accessories

## Ordering Information

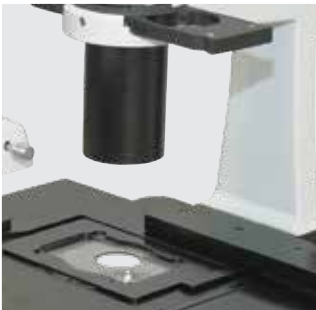
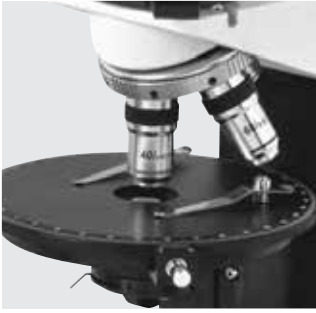
## Description

## Code

## Additional for MX 1400

Darkfield filter	09.0008.02
Heating stage	09.0008.03
Mechanical stage	09.0008.04
Polarization set. Includes polarizer and analyzer	09.0008.05





## SPECIALIZED MICROSCOPES

**MX 400 (T) POLARIZING MICROSCOPE**

**MX 700 (T) INVERTED MICROSCOPE**

**MX 950 METALLURGICAL MICROSCOPE**

**MX 1000 (T) METALLURGICAL MICROSCOPE**

## MX 400 (T) | Polarizing microscope

- Specialized polarizing trinocular microscope
- Ergonomical modern design
- Wide field eyepieces: 10x/18 mm, 10x/18 mm with crosshairs
- Quintuple reverse-angle ball-bearing nosepiece
- S Plan achromat objectives (Strain free): 4x/0.10, 10x/0.25, 40x/0.65, 60x/0.80
- Bright field Abbe condenser with built-in iris diaphragm
- Round mechanical stage with graduation, diameter 160 mm, 360° rotatable, center adjustable
- Collector with integrated polarizer, analyzer integrated in base
- Built-in halogen illumination adjustable 6 V, 20 W



### Specification

#### General characteristics

<b>Magnification</b>	up to 960x
<b>Head</b>	trinocular head, 360° rotatable, 30° inclined, ±5 D, interpupillary distance 55–75 mm
<b>Eyepiece</b>	— widefield WF 10x/18 mm — widefield WF 10x/18 mm with cross-hairs
<b>Microscope body</b>	sturdy metallic base 300x300 mm with supportive rubber feet
<b>Nosepiece</b>	quintuple reverse-angle
<b>Objectives</b>	s-plan plan achromat ICO Infinitive: 4x/0.10, 10x/0.25, 40x/0.65 (spring loaded), 60x/0.80 (spring loaded)
<b>Stage</b>	round stage with graduation, diameter 145 mm, 360° rotatable, center adjustable
<b>Abbe condenser</b>	height adjustable, nA 1.25, with integrated iris diaphragm and filter tray
<b>Focusing</b>	— coaxial coarse and fine focus controls — safety autofocus stop unit — tension adjustment
<b>Illumination</b>	halogen lamp 6 V, 20 W
<b>Power supply</b>	built-in illumination adjustable, 220 V, 6 V, 20 W
<b>Collector</b>	optical system with one lens
<b>Polarizer</b>	collector with integrated polarizer
<b>Analyzer</b>	— analyzer integrated in base, 0–90° rotatable — red light compensation plate — 1/4 wavelength test plate — quartz wedge — Bertrand lens
<b>Power</b>	220 V, 50 Hz
<b>Fuses</b>	250 V, 2 A
<b>Temperature, humidity</b>	18–35 °C, less than 85 %
<b>Weight</b>	7 kg

### Ordering Information

#### Description

#### Code

MX 400 (T) trinocular polarizing microscope, standard set

09.0400.03

## MX 700 (T) | Inverted microscope

- Inverted brightfield and phase contrast microscope with ICO Infinite optics
- 30° inclined head
- Quintuple ball-bearing nosepiece
- Long focus brightfield objectives
- Kohler illumination system
- Centering telescope
- Separate coarse and fine focus controls
- Halogen illumination adjustable 6 V, 30 W
- Optical system provided with Anti-Fungus treatment



### Specification

#### General characteristics

<b>Head</b>	— compensation trinocular ERGO head, variable inclination 5–35°, interpupillary distance 48–75 mm — photo/video attachment for trinocular ERGO head
<b>Eyepiece</b>	EW 10x/22 mm extra widefield
<b>Nosepiece</b>	quintuple nosepiece
<b>Objective</b>	— LWD plan ICO Infinite: 4x/0,10, 10x/0,25, 20x/0,40, 40x/0,65 — LWD phase-contrast plan ICO Infinite: 10x/0,25, 20x/0,40
<b>Phase contrast circular plate</b>	10x, 20x
<b>Stage</b>	— rectangular, 160x250 mm — glass plate — additional mechanical stage with specimen holder (moving range 120x78 mm) — additional stage 70x180 mm — terasaki plate holder — petri dish holder — glass slide holder
<b>Condenser</b>	nA 0.3, LWD 72 mm
<b>Centering telescope</b>	diameter 30 mm
<b>Focusing</b>	— separate coarse and fine focus controls — objective movement — coarse adjustment: 37.7 mm per turn — fine adjustment: 0.2 mm per turn
<b>Illumination</b>	halogen lamp 6 V, 30 W
<b>Filters</b>	blue, green
<b>Power</b>	220 V, 50 Hz

### Ordering Information

#### Description

#### Code

MX 700 (T) trinocular inverted microscope, standard set

09.0700.03

## MX 950 | Metallurgical microscope

- Trinocular microscope with infinite optics
- Quadruple objective nosepiece
- Coaxial fine and coarse adjustment
- LED illumination adjustable 12 W, 3 V
- Objectives plan achromat: 5x/0.12, 10x/0.25, 20x/0.40, 50x/0.75
- Ingenious stand for convenient operation
- Photo- and video documentation



### Specification

#### General characteristics

<b>Head</b>	seidentopf type trinocular head
<b>Eyepiece</b>	WF 10x/18
<b>Objective</b>	Plan Achromat: 5x/0.12, 10x/0.25, 20x/0.40, 50x/0.75
<b>Nosepiece</b>	quadruple nosepiece
<b>Stage</b>	— double layer mechanical stage 150x140 mm — movement range 75x50 mm
<b>Focusing</b>	coaxial Fine & Coarse Adjustment
<b>Illumination</b>	Kohler illumination, Epi-illuminator with iris aperture diaphragm and iris field diaphragm, 3 V LED illumination, brightness adjustable
<b>Filters</b>	blue, green, yellow, ground
<b>Additionally (on request)</b>	binocular head, eyepieces, micrometer, C-Mount adapter, filters, objectives, digital cameras, software for management of digital albums

### Ordering Information

#### Description

#### Code

MX 950 metallurgical binocular microscope, standard set

09.0950.02

MX 950 (T) metallurgical trinocular microscope, standard set

09.0950.03

## MX 1000 (T) | Metallurgical microscope

- Trinocular metallurgical microscope with ICO Infinite Optics
- For reflected and transmitted light
- Infinite plan-achromat objectives:
  - reflected light: 4x, 10x, 20x, 40x, 80x
  - transmitted light: 40x, 100x
- Quintuple nosepiece
- Built-in Koehler Illumination
- Halogen illumination adjustable
  - incident light 12 V, 50 W
  - transmitted light 12 V, 20 W
- Optical system provided with Anti-Fungus treatment



### Specification

#### General characteristics

<b>Magnification</b>	— 1600x (transmitted light) — 1280x (reflected light)
<b>Head</b>	infinite trinocular head, 360° rotatable, 30° inclined, ±5 D, interpupillary distance 55–75 mm
<b>Eyepieces</b>	— widefield 10x/18 mm — widefield eyepiece 10x/18 mm with 0.1 mm micrometer (1 pcs)
<b>Microscope body</b>	sturdy metallic base 280 x 280 mm with supportive rubber feet
<b>Nosepiece</b>	quintuple reverse-angle ball-bearing nosepiece with 3 slots for brightfield objectives and 2 slots for darkfield objectives
<b>Converter</b>	for brightfield and darkfield
<b>Objectives</b>	reflected light: — plan-achromat ICO Infinite objectives: 4x/0.10 (brightfield), 10x/0.25 (brightfield and darkfield), 20x/0.40 (brightfield and darkfield), 40x/0.65 (darkfield), 80x/0.90 (darkfield) incident light: — plan-achromat ICO Infinite objectives: 40x/0.65 (spring loaded), 100x/1.25 (spring loaded, immersion oil)
<b>Polarization set</b>	built-in polarizer and analyzer
<b>Stage</b>	square stage with glass plate, 185x142 mm, mechanical graduated, right handed
<b>Abbe condenser</b>	Abbe condenser nA 1.25 with iris diaphragm, variable at height.
<b>Focusing</b>	— coaxial coarse and fine focus controls — stage focus control (protection of sample). — tension adjustment
<b>Collector</b>	Koehler illumination with auxiliary lens, field iris diaphragm and centering mechanism
<b>Light source</b>	— incident light: halogen lamp, 50 W, 12 V — transmitted light: halogen lamp, 20 W, 12 V
<b>Power requirements</b>	220 V, 50 Hz
<b>Fuses</b>	250 V, 2 A
<b>Temperature, humidity</b>	18–35 °C, less than 85 %
<b>Weight</b>	14 kg

### Ordering Information

#### Description

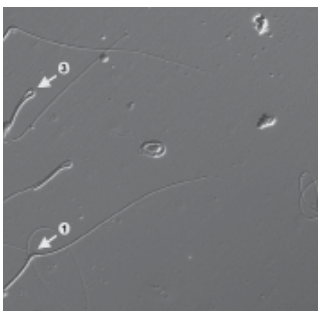
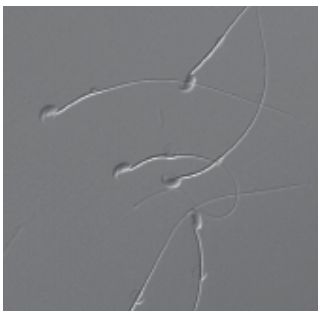
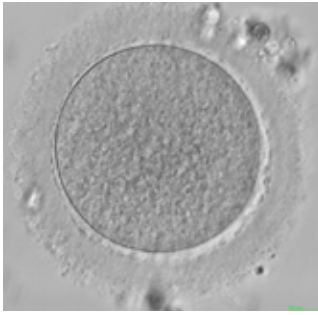
#### Code

MX 1000 (T) trinocular metallurgical microscope, standard set

09.1000.03

## MX 400 (T), MX 700 (T), MX 950, MX 1000 (T) | Components and accessories

Ordering Information	
Description	Code
<b>Eyepieces</b>	
Eyepiece WF 8x/18	09.0002.23
Eyepiece wide field WF 10x/18	09.0002.24
Eyepiece wide field WF 10x/18, with scale, resolution 0.01 mm	09.0002.25
Eyepiece wide field WF 12,5x/15	09.0002.26
<b>Objectives (ISO Infnitive)</b>	
Objective plan achromat ICO Infnitive 2,5x/0.08	09.0003.60
Objective plan achromat ICO Infnitive 4x/0.10	09.0003.61
Objective plan achromat ICO Infnitive 5x/0.12	09.0003.62
Objective plan achromat ICO Infnitive 10x/0.25	09.0003.63
Objective plan achromat ICO Infnitive 20x/0.40	09.0003.64
Objective plan achromat ICO Infnitive 40x/0.65, spring-loaded	09.0003.65
Objective plan achromat ICO Infnitive 50x/0.75, spring-loaded	09.0003.66
Objective plan achromat ICO Infnitive 100x/0.80, spring-loaded	09.0003.68
<b>Polarizing set</b>	
Polarization set. Includes polarizer and analyzer	09.0008.06
<b>Filters</b>	
Blue filter	09.0004.01
Green filter	09.0004.02
Yellow filter	09.0004.03
Matted filter	09.0004.04
<b>LED</b>	
LED element 12 V, 3 W, for MX 950	09.0005.04



# MICROSCOPES FOR IN VITRO FERTILIZATION (IVF)

**MX 1150 (T) STEREO MICROSCOPE FOR IN-VITRO FERTILIZATION (IVF)**

**MX 300 (T) BIOLOGICAL MICROSCOPE FOR IN-VITRO FERTILIZATION (IVF)**

## MX 1150 (T) | Stereomicroscope for In-Vitro Fertilization (IVF)

- Professional ZOOM stereo microscope
- Trinocular tube for photo/video documentation
- Ergonomic design
- New optics with high resolution and large depth of field
- Zoom range: 8–50x (300x)
- Widefield eyepieces 10x/22 mm
- Illumination system: transmitted light, incident light
- LED illumination adjustable: incident and transmitted light
- Optical system provided with Anti-Fungus treatment
- Thermo plate for microscope

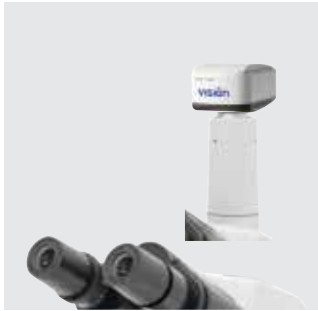


## MX 300 (T) | Phase-contrast microscope for In-Vitro Fertilization (IVF)

- 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
- Turret phase-contrast kit







# CAMERAS FOR MICROSCOPY

VISION CAMERAS FOR MICROSCOPY

VIDEOADAPTERS

## OPTIX digital cameras | Comparative characteristics

				
	CAM® V003 (C)	CAM® V005 (C)	CAM® V014 (C)	CAM® V500 (C)
Application	bright field microscopy	bright field microscopy	bright field microscopy	bright field microscopy
Megapixel	3.0 M	5.0 M	14.0 M	1.5 M
Resolution	2048x1536	2592x1944	4096x3288	1440x1080
Sensor	1/2", CCD	1/2,5", CCD	1/2", CCD	1/2.5", CMOS
Output color	color	color	color	color
Frame rate	11 fps	6 fps	1 fps	10 fps
Exposure time	10 µs – 32 ms	10 µs – 32 ms	10 µs – 32 ms	1/3–1/120 s
Connection interface	USB 2.0	USB 2.0	USB 2.0	USB 2.0
Objective mount	C-mount	C-mount	C-mount	C-mount
Housing	aluminium	aluminium	aluminium	aluminium
Power supply	via USB port	via USB port	via USB port	via USB port
Screen	—	—	—	—

## OPTIX digital cameras | Comparative characteristics

				
	<b>CAM® V1200S (M)</b>	<b>CAM® V1400 (M)</b>	<b>CAM® V1700 (M)</b>	<b>CAM® V1200SM</b>
<b>Application</b>	fluorescence microscopy and karyotyping	fluorescence microscopy and karyotyping	fluorescence microscopy and karyotyping	extra high resolution microscopy
<b>Megapixel</b>	1.4 M	2.0 M	5.0 M	6.0 M
<b>Resolution</b>	1392x1040	1616x1216	2448x2048	3264x1836
<b>Sensor</b>	1/2", CCD	1/1.8", CCD	2/3", CCD	1/2.8", CMOS
<b>Output color</b>	monochrome	monochrome	monochrome	colour
<b>Frame rate</b>	15 fps	12 fps	8 fps	30 fps
<b>Exposure time</b>	1/1000 – 16 s	1/1000 – 16 s	161 µs – 71 min	—
<b>Connection interface</b>	USB 2.0	USB 2.0	USB 2.0	HDMI USB 2.0
<b>Objective mount</b>	C-mount	C-mount	C-mount	C-mount
<b>Housing</b>	aluminium	aluminium	aluminium	aluminium
<b>Power supply</b>	via USB port or external 5 V DC	via USB port or external 5 V DC	via USB port or external 5 V DC	via USB port or external 5 V DC
<b>Screen</b>	—	—	—	digital HD

## Cameras and adapters

### Ordering Information

Description	Code
<b>Vision cameras for microscopy</b>	
Vision CAM® V003 (C) color digital camera for bright field microscopy	<b>10.0003.01</b>
Vision CAM® V005 (C) color digital camera for bright field microscopy	<b>10.0005.01</b>
Vision CAM® V014 (C) color digital camera for bright field microscopy	<b>10.0014.01</b>
Vision CAM® V500 (C) color digital camera for bright field microscopy	<b>10.0500.01</b>
Vision CAM® V1200S (M) monochrome digital camera for fluorescence microscopy and karyotyping	<b>10.1200.02</b>
Vision CAM® V1400 (M) monochrome digital camera for fluorescence microscopy and karyotyping	<b>10.1400.02</b>
Vision CAM® V1700 (M) monochrome digital camera for fluorescence microscopy and karyotyping	<b>10.1700.02</b>
Vision CAM® V1200SM digital HD-camera	
<b>Videoadapters</b>	
Video adapter 0.5x (C-mount). For Vision CAM® V1400, V1200, V500, V014, V005, V003 digital cameras, for all MicroOptix trinocular biological microscopes	<b>09.0006.01</b>
Video adapter 1x (C-mount). For Vision CAM® V1700, for all MicroOptix trinocular biological microscopes	<b>09.0006.02</b>
Video adapter 0.5x (C-mount). For Vision CAM® V1400, V1200, V500, V009, V005, V003 digital cameras, for all MicroOptix trinocular biological microscopes	<b>09.0006.03</b>
Video adapter 1x (C-mount). For Vision CAM® V1700, for all MicroOptix trinocular biological microscopes	<b>09.0006.04</b>



# VISION SOFTWARE

DIGITAL MICROSCOPY

CYTOLOGY

SPERM SEDIMENT ANALYSIS

SEMEN ANALYSIS

CYTOGENETICS

WORK WITH DIGITAL IMAGES

## Digital microscopy



### Vision Bio® Album — Software for management of digital albums in microscopy

- Patient registration, microscopic specimen saving, albums handling, entering additional parameters, report
- Data displayed as patient cards with analysis results
- Unlimited database of patients and analysis results
- Additional parameters customization for adding comments and remarks
- Data management and search
- Statistical processing of the results upon user's request
- Customized reports. Reports adjustment upon user's request
- Reports export to different formats (Word, Excel, PDF and etc.)



### Vision Bio® Report — Software for report generation and management of digital albums in microscopy

- Storage and management of patient records, digital samples and microscopy reports on the computer
- Possibility to create, edit, organize, classify and comment on digital albums
- Professional set of tools for image enhancement
- Report templates are designed according to laboratory microscopy analysis standards
- Ready-made report templates: cytology, histology, myelogram, urine, etc
- Possibility to choose and edit ready-made report templates and create your own blanks
- Reports are available for search, preview, edit, print and send by e-mail
- Convenient and secure storage in the database

# Digital microscopy



## Vision Bio® Analyze — Software for analysis, report generation and management of digital albums in microscopy

- Image capture from microscopy sample
- Analyzing microscopy images
- Manual and automatic selection of objects of interest
- Analysis of size, form, position and optical parameters for the selected objects
- Objects classification and statistical processing of measurement results
- Chart export with analysis results
- Digital sample and analysis results database
- Report generation
- Database management

### Ordering Information

	Description	Code
	Vision Bio® Album software for management of digital albums in microscopy	20.0001.01
	Vision Bio® Report software for report generation and management of digital albums in microscopy	20.0002.01
	Vision Bio® Analyze software for analysis, report generation and management of digital albums in microscopy	20.0003.02

## Cytology



### Vision Cyto® Basic — Software for organization and interpretation of cytological examinations

- Image capture from microscopy sample
- A pre-set algorithm for cytology analysis
- Hints from the atlas and album of cytology diagnoses
- Analyzing microscopy images
- Manual and automatic selection of objects of interest
- Analysis of size, form, position and optical parameters for the selected objects
- Objects classification and statistical processing of measurement results
- Chart export with analysis results
- Digital sample and analysis results database
- Report generation
- Database management

### Ordering Information

	Description	Code
	Vision Cyto® Basic software for organization and interpretation of cytological examinations	20.0017.01



# Sperm sediment analysis



## Vision Sperm Sediment® — Software for analysis of sperm sediment

- Diagnostic of latent trichomoniasis, fungal infections, HPV infections, disbiosis and etc.
- Algorithm for diagnostics 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 management
- Remote access and network capabilities

### Ordering Information

	Description	Code
	Vision Sperm Sediment® software for analysis of sperm sediment	20.0023.01

## Sperm analysis



### Vision Sperm® — Software for microscopy semen analysis

- 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

### Ordering Information

	Description	Code
	Vision Sperm® software for sperm analysis	20.0009.01

## Cytogenetics



### Vision Karyo® — Software for chromosome analysis / karyotyping

- High accuracy karyotyping of human chromosomes. Ideogram generation. Simultaneous display of metaphase plate and karyogram.
- Automatic and manual separation of crossing over and touching chromosomes, automatic and manual object selection for analysis
- Comparison of chromosomes and ideograms at the same time
- Automatic and manual centromere detection
- Standard ideograms of different human chromosomal ISCN nomenclatures: 400, 550 or 850
- Professional set of tools for image enhancement
- Suitable for animal chromosomes analysis
- Generation of ideograms for future identifications of chromosomes
- Generation of a report containing information about patient and institution, analysis results, images, comments, etc.
- Reports are available for search, preview, edit, print and send by e-mail
- Storage and management of patient records, analysis results and reports of the computer
- Convenient and secure storage in the database



### Vision FISH® — Software for chromosome analysis / FISH method

- Fluorescence In Situ Hybridization method
  - > identification of a precise location of genes on chromosomes
  - > visualization of unrecognizable microscopic defects
  - > detection of chromosome aberrations
  - > identification of aneuploid cells
  - > visualization of individual chromosome segments in interphase nuclei
  - > evaluation of genetic relationship between distant species, etc.
- Generation of final image with fluorescent stains
- Automatic and manual separation of crossing over and touching chromosomes, automatic and manual object selection for measurement
- Professional set of tools for image enhancement
- Manual karyotyping of human chromosomes, ideogram generation
- Standard ideograms of different human chromosomes
- Suitable for animal chromosomes analysis
- Generation of a report containing information about patient and institution, analysis results, images, comments, etc.

### Ordering Information

Description	Code
Vision Karyo® software for chromosome analysis / karyotyping	20.0004.01
Vision FISH® software for chromosome analysis / FISH method	20.0005.02

## Cytogenetics



### Vision Karyo® & FISH® — Software package for chromosome analysis / karyotyping & FISH

- High accuracy of automatic karyotyping of human chromosomes. Ideogram generation. Simultaneous display of metaphase plate and karyogram.
- Fluorescence In Situ Hybridization method
  - > identification of a precise location of genes on chromosomes
  - > visualization of unrecognizable microscopic defects
  - > detection of chromosome aberrations
  - > identification of aneuploid cells
  - > visualization of individual chromosome segments in interphase nuclei
  - > evaluation of genetic relationship between distant species, etc.

### Ordering Information

	Description	Code
	Vision Karyo® & Vision FISH® software package for chromosome analysis / karyotyping & FISH	20.0045.01

# Work with digital images

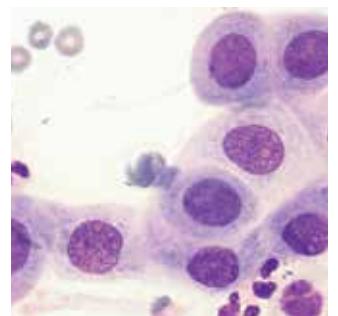
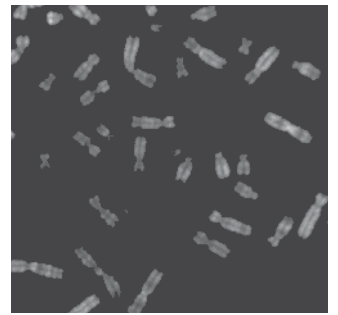
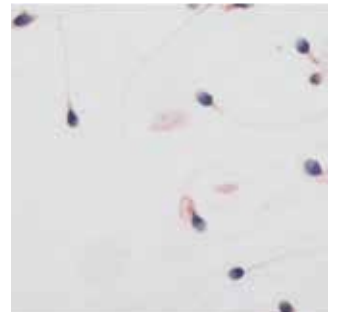
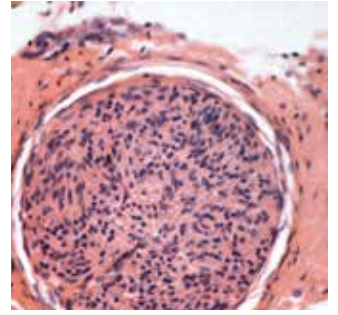
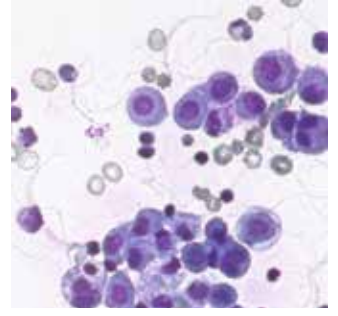


## Vision Capture® — Software for saving of digital images

- Camera settings management
- Saving of photo and video results of microscopic analyses

### Ordering Information

	Description	Code
	Vision Capture® software for saving of digital images	20.0000.00





# DIGITAL MICROSCOPY

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

# MX Vision Basic<sup>®</sup>

## Master line



### **MX Vision Basic<sup>®</sup> / Standard set**

System includes: MicroOptix MX 300 (T) microscope, Vision CAM<sup>®</sup> V009 (C) digital camera, Vision Capture<sup>®</sup> basic software, personal computer

### **MX Vision Basic<sup>®</sup> / Primary Set**

System includes: MicroOptix MX 300 (T) microscope, Vision CAM<sup>®</sup> V009 (C) digital camera, Vision Capture<sup>®</sup> basic software.

*Use your PC\**

### **MX Vision Basic<sup>®</sup> / Initial Set**

System includes: Vision CAM<sup>®</sup> V009 (C) digital camera, Vision Capture<sup>®</sup> 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<sup>®</sup>

## Eco line



### **MX Vision Basic<sup>®</sup> / Standard set**

System includes: MicroOptix MX 100 (T) microscope, Vision CAM<sup>®</sup> V005 (C) digital camera, Vision Capture<sup>®</sup> basic software, personal computer

### **MX Vision Basic<sup>®</sup> / Primary Set**

System includes: MicroOptix MX 100 (T) microscope, Vision CAM<sup>®</sup> V005 (C) digital camera, Vision Capture<sup>®</sup> basic software.

*Use your PC\**

### **MX Vision Basic<sup>®</sup> / Initial Set**

System includes: Vision CAM<sup>®</sup> V005 (C) digital camera, Vision Capture<sup>®</sup> 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

# MX Vision Bio<sup>®</sup> 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**

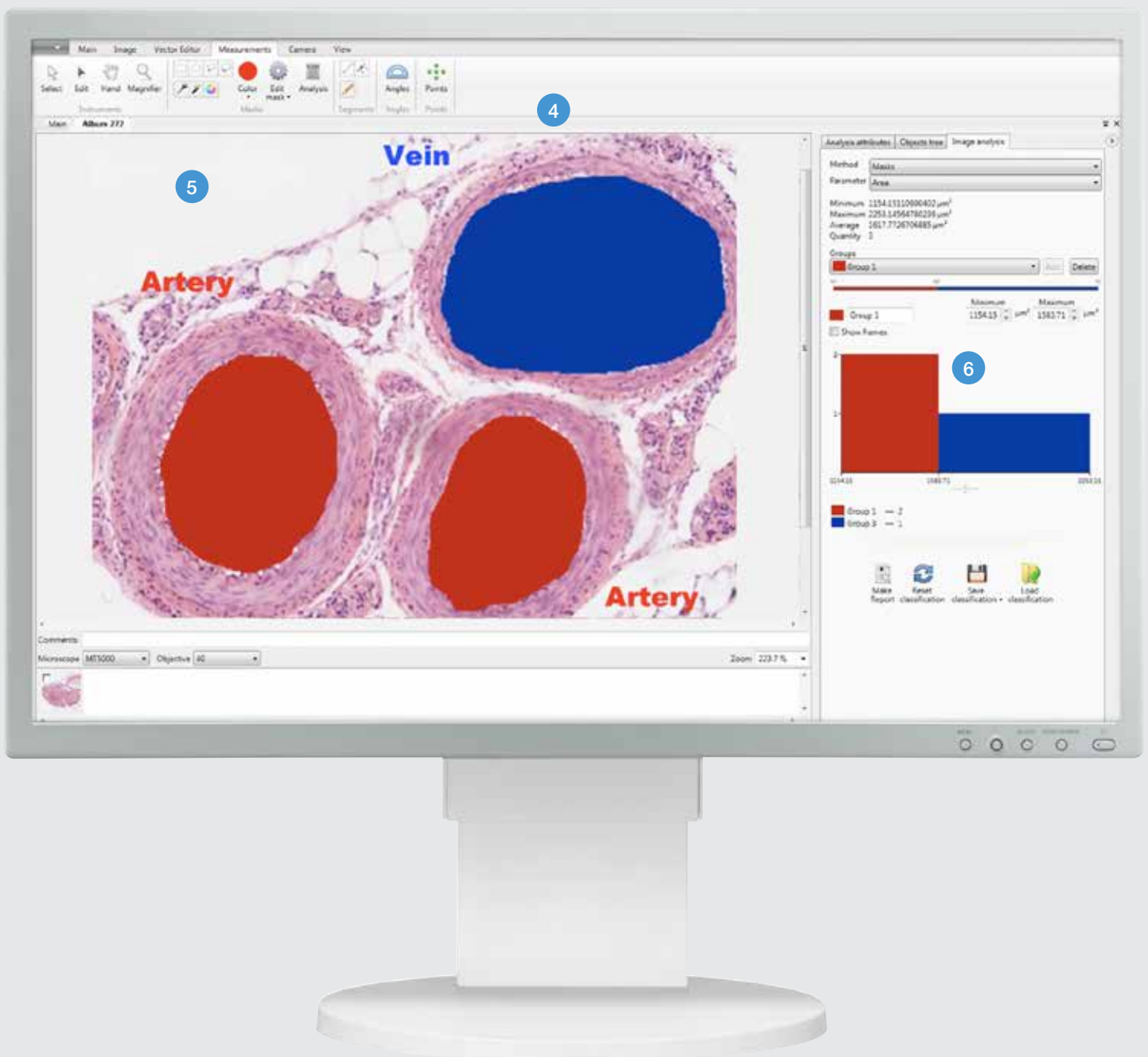
Basic working tools for managing patient records and analysis results. The toolbar has minimal size to retain space for working with images

**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.



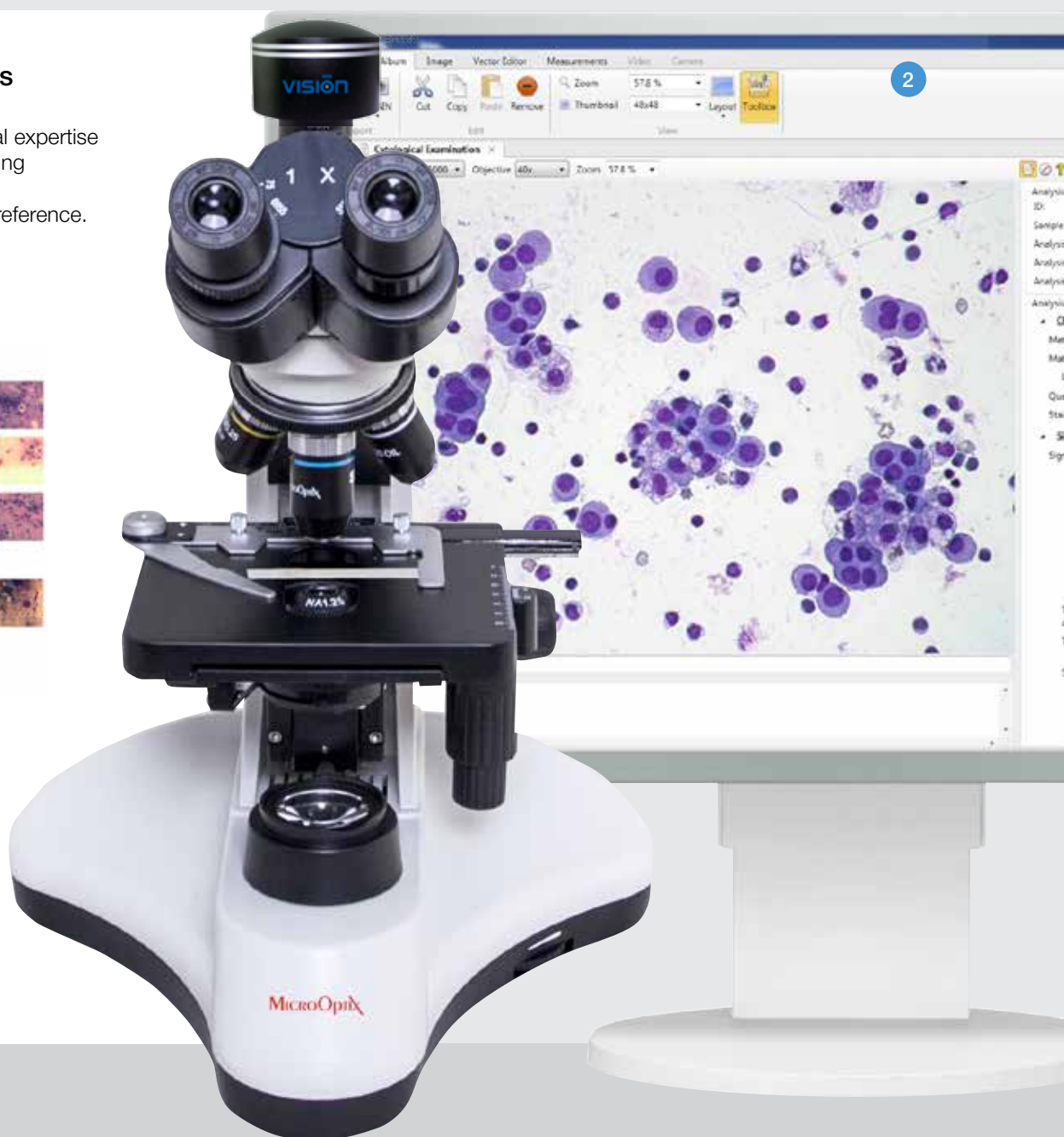
# MX Vision Cyto<sup>®</sup>

## Digital cytology

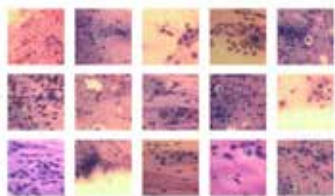
### Organization and interpretation of cytological examinations

#### Hints from the atlas

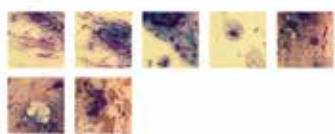
Develop your professional expertise by creating and maintaining an atlas. Add images with comments for later reference.



#### Bacteriophage



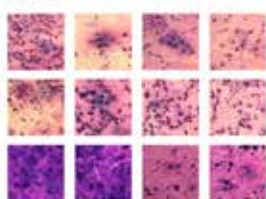
#### Kona



#### Stromatolite



#### Mycoplasma



## Sample microscopy

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

## 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 Sperm Sediment<sup>®</sup>

## Sperm sediment analysis

### Cytological analysis of sperm sediment



#### Diagnostics

- latent trichomoniasis
- fungal infections
- HPV infections
- disbiosis

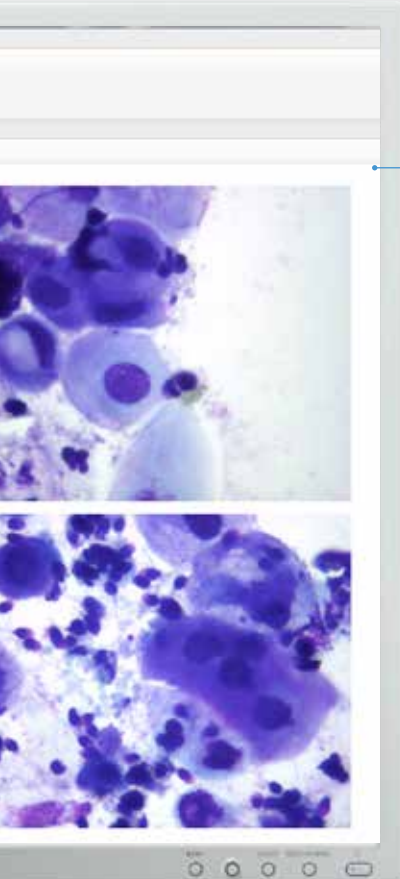


A pre-set algorithm for analysis of sperm sediment

Automatic calculation of diagnostic CSS (Cytology of Sperm Sediment) index

Telemedicine and remote consultations with colleagues

Database management



Combination of modern technology and classical microscopy extends working possibilities

## A pre-set algorithm for cytology analysis of sperm sediment

Analysis algorithm for diagnostics 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 > 5 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 coliforms
    - Debride type cells
    - Multinucleated cells morphologically similar to Herpes simplex II
    - Cells with alterations typical for a virus infection

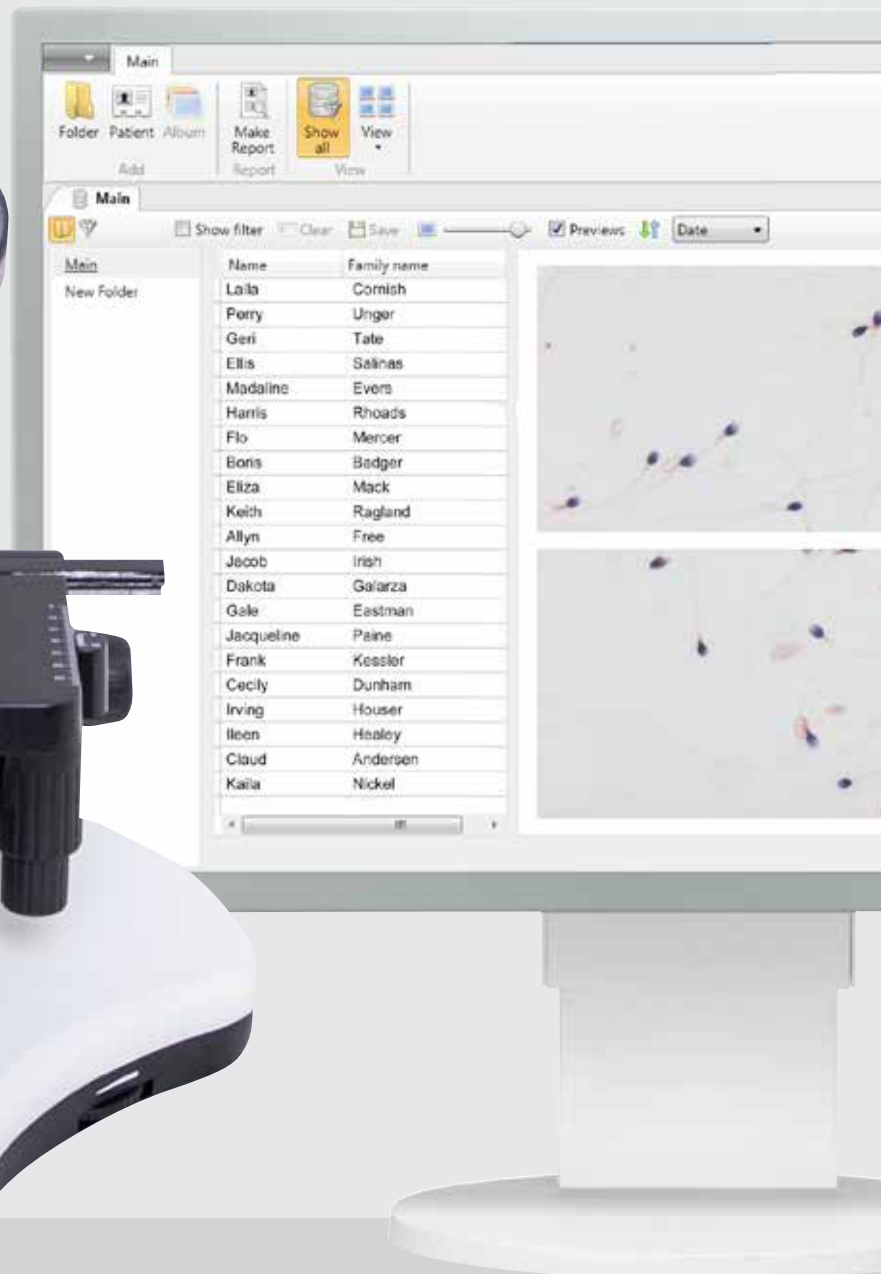
Result Interpretation

Notes

# MX Vision Sperm<sup>®</sup>

Semen microscopy system

Organization and interpretation of sperm morphology analysis



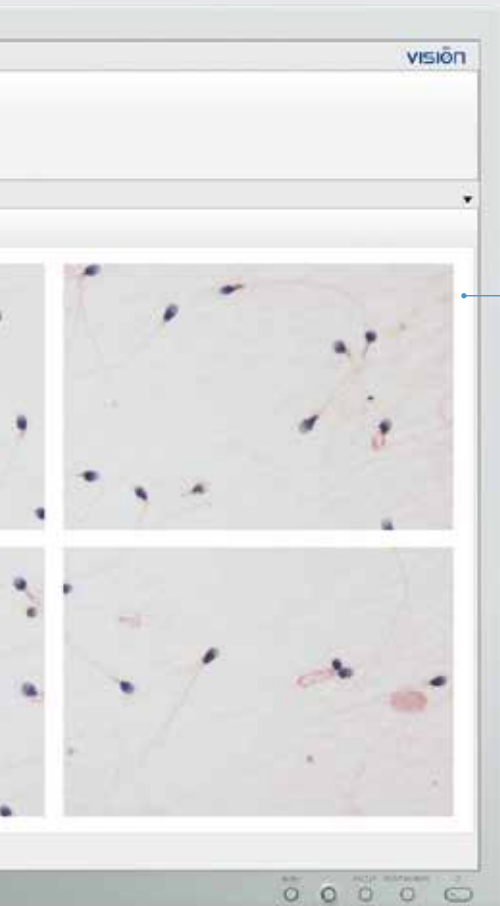


Excellent image of sperm samples due to camera with high resolution

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	<input type="text" value="2"/>	days
Interval: Ejaculation – Analysis	<input type="text"/>	min.
Appearance	<input type="text" value="Normal"/>	
Liquefaction	<input type="text" value="Normal"/>	
Consistency	<input type="text" value="Normal"/>	
Viscosity	<input type="text" value="Normal"/>	
Volume	<input type="text"/>	µm/sec
pH	<input type="text" value="7,2"/>	

▸ **Motility (%)**

(PR) progressive	<input type="text" value="0"/>	%
(NP) non-progressive	<input type="text" value="0"/>	%
(IM) immotile	<input type="text"/>	%

▸ **Motility (M/ml)**

(PR) progressive	<input type="text"/>	M/ml
(NP) non-progressive	<input type="text"/>	M/ml
(IM) immotile	<input type="text"/>	M/ml

Velocity  µm/sec

Sperm Motility Index (SMI)

Agglutination  %

Aggregation  %

Vitality  % live

Concentration  M/ml

Total Sperm Number

▸ **Morphology**

Normal	<input type="text" value="15,4"/>	%
Head Defects	<input type="text" value="42,3"/>	%
Neck or Midpiece Defects	<input type="text" value="29,3"/>	%
Tail Defects	<input type="text" value="24,7"/>	%
Cytoplasmic Defects	<input type="text" value="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	<input type="text"/>	mmol/l
Fructose	<input type="text"/>	mmol/l
α-glucosidase neutral	<input type="text"/>	U/l
Citric acid	<input type="text"/>	mmol/l

# 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.

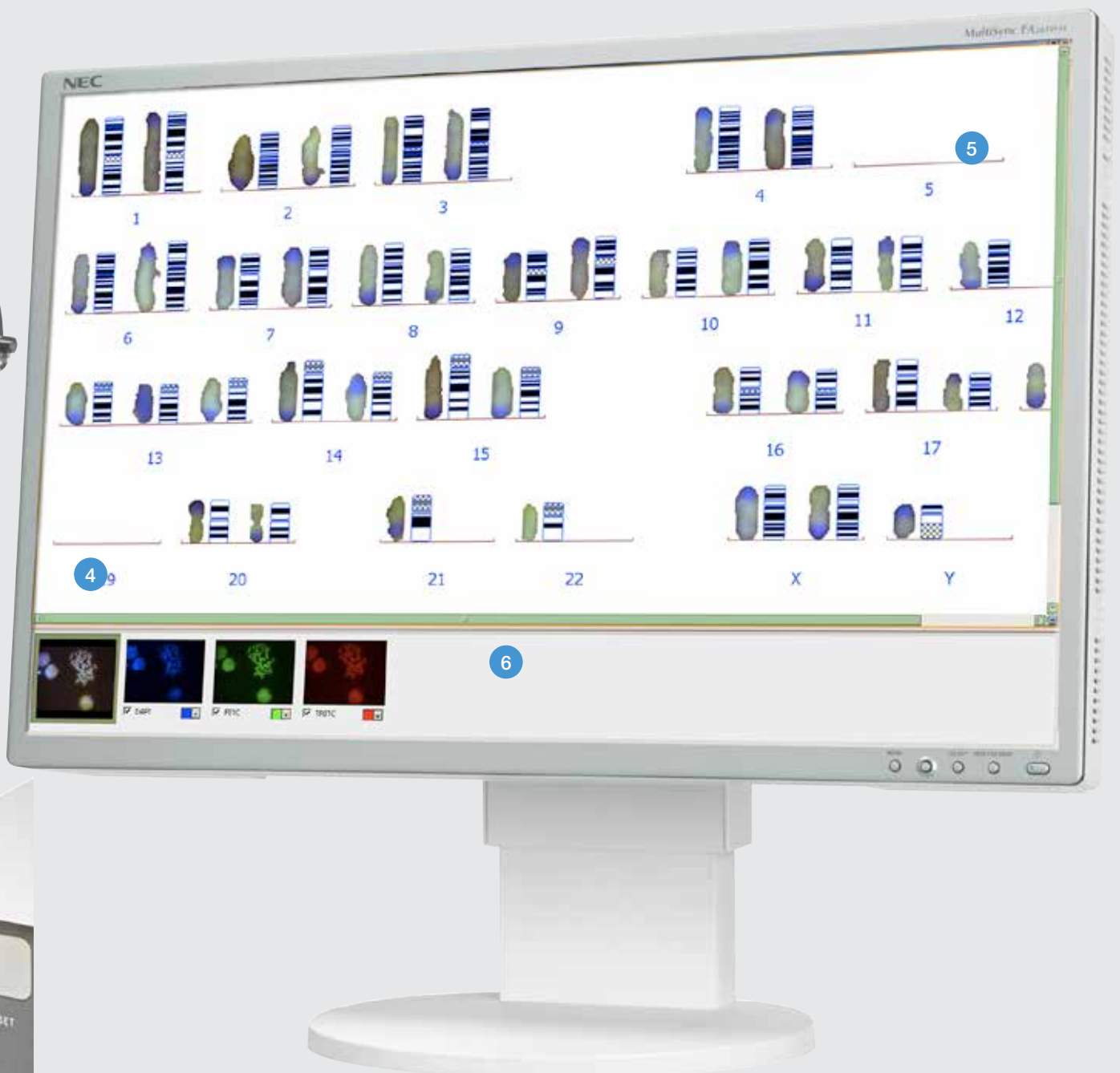
**2 Optical system**  
The combination of innovative technology and classical microscopy extends the working possibilities. If necessary, microscopy sample of a metaphase plate can be viewed through the eyepieces.

**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.





Manufacturer:  
West Medica Produktions- und Handels- GmbH  
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2351 Wiener Neudorf, Austria  
tel.: +43 (0) 22 36 89 24 65,  
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vienna@westmedica.com  
**www.microoptix.com**

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