MICROOPTIX

WEST MEDICA

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.

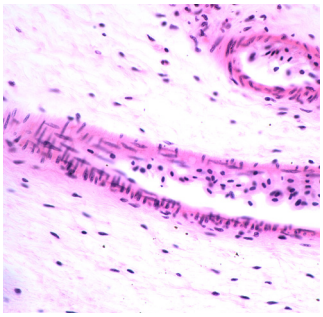
Company's headquarters are located in Perchtoldsdorf near Vienna, Austria. The production facility is located in Upper Austria, in Frankenmarkt.

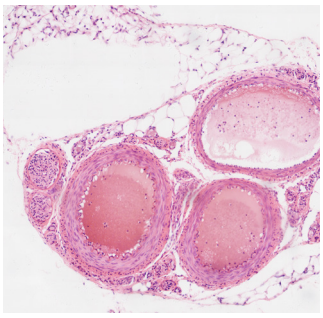
We participate in medical conferences and exhibitions, as well as organize workshops and master classes with leading specialists to provide you with up-to-date information on microscopy.

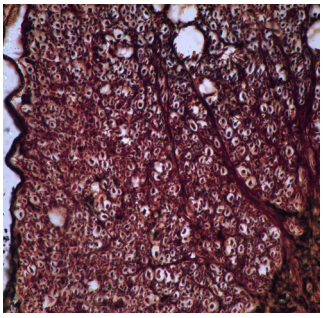
Our wide distribution network allows us to provide our customers with constant product availability and an efficient after-sales service with qualified personnel. They will answer any questions you might have.

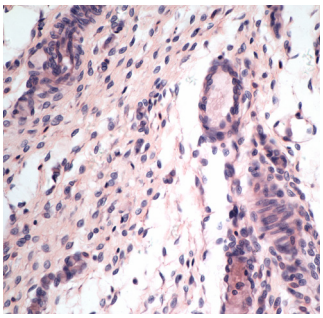
Your friendship and trust are very significant to us and our goal is to provide you with high-quality and professional support.

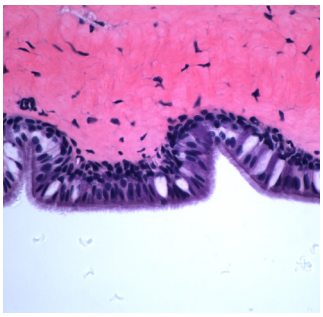
CONTENTS

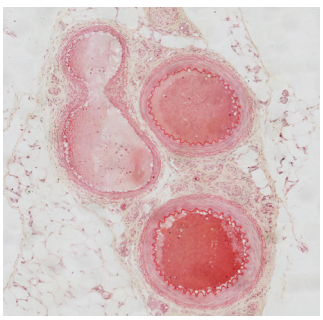


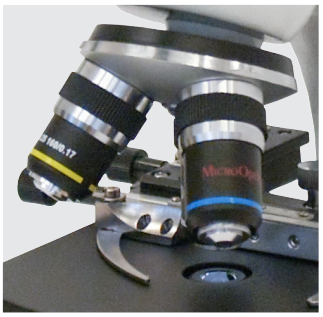


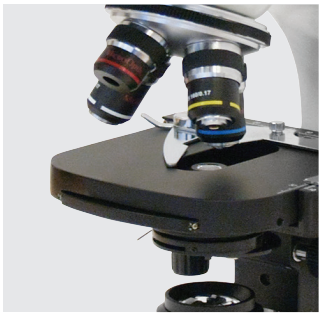


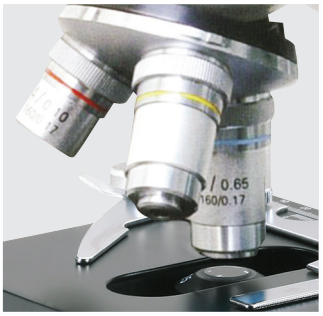












BUDGET LABORATORY MICROSCOPES

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
Viewing Head	monocular head, Inclined at 45°
Eyepiece	WF10x/18
Objective	Achromat: 4x/0.10, 10x/0.25, 40x/0.65
Condenser	NA0.65 with Disc Diaphragm
Nosepiece	triple nosepiece
Stage	Plain Stage with slide clips 95x95 mm
Illumination	up and down LED illumination
Focusing System	coaxial coarse and fine adjustment
Additionally (on request)	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
Magnification	up to 400x
Head	monocular tube, 45° inclined
Eyepiece	10x/18 mm widefield
Microscope body	metallic base with supportive rubber feet
Nosepiece	triple objective
Objectives	achromat: 4x/0.10, 10x/0.25, 40x/0.65 (spring loaded)
Stage	double layer mechanical specimen stage, 120x120 mm
Abbe condenser	height adjustable, nA 1.2, with integrated iris diaphragm and filter tray, with green filter
Focusing	— coaxial coarse and fine focus controls — safety autofocus stop unit
Light source	LED 5 V, 1 W
Power supply	220 V, 50 Hz
Fuses	250 V, 2 A
Temperature, humidity	18–35 °C, less than 85 %
Weight	2.95 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
Magnification	up to 1000x
Head	compensation binocular head, 45° inclined, interpupillary distance 55–75 mm
Eyepiece	10x/18 mm widefield
Microscope body	metallic base with supportive rubber feet
Nosepiece	quadruple objective
Objectives	achromat: 4x/0.10, 10x/0.25, 40x/0.65 (spring loaded), 100x/1.25 (spring loaded, oil)
Stage	double layer mechanical specimen stage, 120x120 mm
Abbe condenser	height adjustable, nA 1.25, with integrated iris diaphragm and filter tray, with green filter
Focusing	— coaxial coarse and fine focus controls — safety autofocus stop unit
Light source	LED 5 V, 1 W
Power supply	external adapter 5 V DC, 220 V, 50 Hz
Temperature, humidity	18–35 °C, less than 85 %
Weight	2.95 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
Magnification	up to 1000x
Head	compensation binocular head, 360° rotatable, 30° inclined, interpupillary distance 55–75 mm
Eyepiece	10x/18 mm widefield
Microscope body	metallic base with supportive rubber feet
Nosepiece	quadruple objective
Objectives	achromat: 4x/0.10, 10x/0.25, 40x/0.65 (spring loaded), 100x/1.25 (spring loaded, oil)
Stage	double layer mechanical specimen stage, 120x120 mm
Abbe condenser	height adjustable, nA 1.25, with integrated iris diaphragm and filter tray, with blue and green filters
Focusing	— coaxial coarse and fine focus controls — safety autofocus stop unit
Light source	halogen lamp, 6 V, 20 W, adjustable
Power supply	220 V, 50 Hz
Fuses	250 V, 2 A
Temperature, humidity	18–35 °C, less than 85 %
Weight	4.45 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

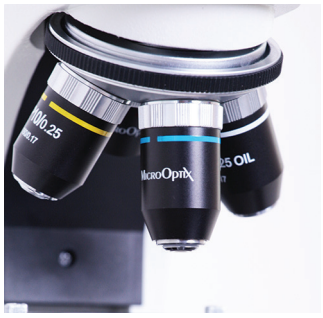
	Specification
	General characteristics
Magnification	up to 1000x
Head	compensation binocular head, 360° rotatable, 30° inclined, interpupillary distance 55–75 mm
Eyepiece	10x/18 mm widefield
Microscope body	metallic base with supportive rubber feet
Nosepiece	quadruple objective
Objectives	achromat: 4x/0.10, 10x/0.25, 40x/0.65 (spring loaded), 100x/1.25 (spring loaded, oil)
Stage	double layer mechanical specimen stage, 120x120 mm
Abbe condenser	height adjustable, nA 1.25, with integrated iris diaphragm and filter tray
Focusing	— coaxial coarse and fine focus controls — safety autofocus stop unit
Light source	LED 3 V, 1 W, adjustable
Power supply	220 V, 50 Hz
Temperature, humidity	18–35 °C, less than 85 %
Weight	4.1 kg

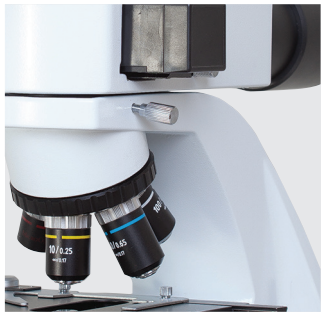
	Ordering Information	
	Description	**Code**
	MX 50 binocular microscope, standard set	**09.0050.02**

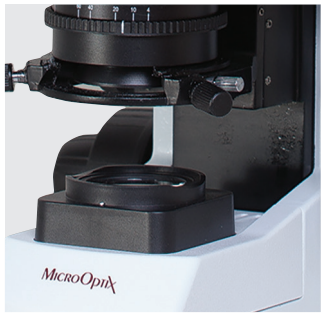
MX 05, MX 10, MX 20, MX 50, MX 50 (D) | Components and accessories

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**
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

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	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	6.4 kg

Ordering Information

Description	Code
MX 100 binocular biological microscope, standard set	**09.0100.02**
MX 100 (T) trinocular biological microscope, standard set	**09.0100.03**

MX 300 | Biological microscope

- Microscope with ICO Infinitive 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)
- 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	— infinitive compensation binocular (MX 300) or trinocular (MX 300 (T)) head, — 360° rotatable, 30° inclined, ±5 D, interpupillary distance 55–75 mm
Eyepiece	10x/20 mm widefield
Microscope body	sturdy metallic base 300x300 mm with supportive rubber feet
Nosepiece	quintuple reverse-angle
Objectives	objectives plan achromat ICO Infinitive: 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, 150x130 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

	Ordering Information	
	Description	**Code**
	MX 300 binocular biological microscope, standard set	**09.0300.02**
	MX 300 (T) trinocular biological microscope, standard set	**09.0300.03**

MX 300 (TF LED) | Biological microscope

- ICO Infinitive 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
Magnification	up to 1000x
Head	compensation trinocular head, 360° rotatable, 30° inclined, interpupillary distance 48–75 mm
Eyepiece	10x/18 mm widefield
Microscope body	metallic base with supportive rubber feet
Nosepiece	quintuple objective nosepiece
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, 132x142 mm
Abbe condenser	height adjustable, nA 1.25, with integrated iris diaphragm and filter tray, with green filter
Focusing	— coaxial coarse and fine focus controls — safety autofocus stop unit — tension adjustment
Light source	LED 12 V, 3 W, adjustable
Power supply	220 V, 50 Hz
Temperature, humidity	18–35 °C, less than 85 %
Weight	7 kg
Fluorescence attachment	— 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	**09.0311.03**

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 Infinitive: 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 185 x 142 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 of video camera
- Revolving nosepiece for 6 objectives
- Coaxial coarse and calibrated fine focus control
- 5 objectives Plan Achromat ICO Infinitive: 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 243 x 158 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**

Ordering information

Viewing heads	Code
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**
Eyepieces	
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**
Objectives (ICO Infinitive)	
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**
Objectives for fluorescence (ICO Infinitive)	
Plan Infinitive for Fluorescence 4x/0.10	**09.0003.91**
Plan Infinitive for Fluorescence 10x/0.25	**09.0003.92**
Plan Infinitive for Fluorescence 20x/0.40, spring-loaded	**09.0003.93**
Plan Infinitive for Fluorescence 40x/0.65, spring-loaded	**09.0003.94**
Plan Infinitive for Fluorescence 100x/1.25, spring-loaded, for oil immersion	**09.0003.95**
Objectives for dark field (ICO Infinitive)	
Plan Achromat 100x/1.25, spring-loaded, for oil immersion	**09.0003.96**
Object-micrometer	
Object-micrometer 0.01 mm	**09.0007.01**
Condensers	
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**
Polarizing set	
Polarization set. Includes polarizer and analyzer	**09.0008.01**
Phase-contrast kit ICO Infinitive	
Turret phase-contrast kit	**09.0008.02**
Fluorescence (luminescence)	
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**
LED fluorescence (luminescence)	
Fluorescence set with LED illumination (Blue)	**09.0008.87**
Fluorescence set with LED illumination (Green)	**09.0008.88**
Mechanical stages	
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**
Filters	
Blue filter	**09.0004.81**
Green filter	**09.0004.82**
LED and bulbs	
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**
C-mount adapters	
Video adapter 0.5x	**09.0006.05**
Video adapter 1x	**09.0006.06**

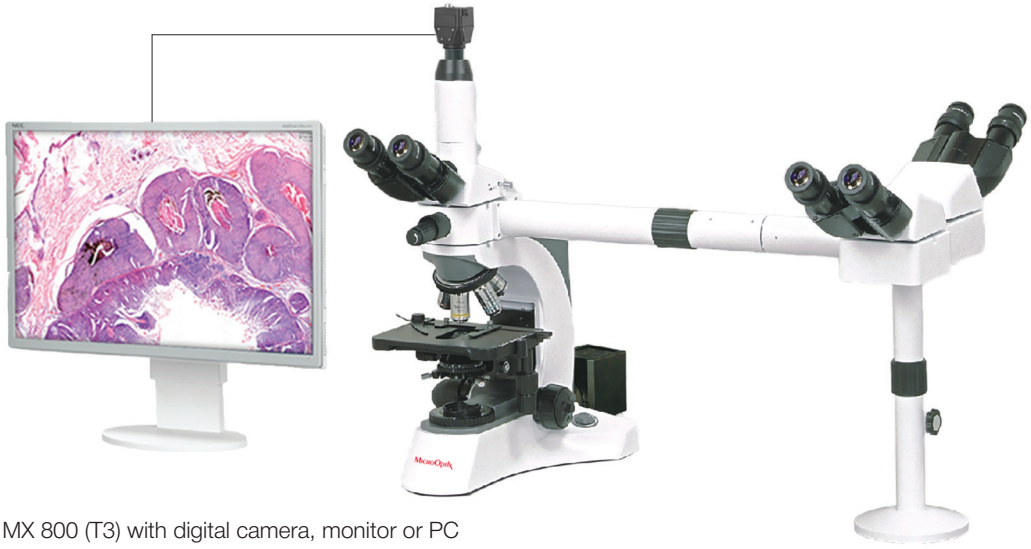
MX 800 | Multi-user microscopes

- 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
Viewing head	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.
Eyepiece	EW 10x/20 mm, widefield	4 pcs.	6 pcs.	10 pcs.
Nosepiece	quintuple reverse-angle	•	•	•
Objectives	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 185 x 142 mm with specimen holder for 2 slides	•	•	•
Abbe condenser	height adjustable, nA 0.9 / 0.25, with integrated iris diaphragm and filter tray	•	•	•
Light source	halogen bulb, 24 V, 100 W	•	•	•
	LED, 5 W	o	o	o
LED pointer	green	•	•	•
	two color	o	o	o
C-Mount adapter	0.5x video adapter	o	o	o
	1x video adapter	o	o	o

• — standard set, o — optional

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

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
Magnification	8–50x (300x)
Head	compensation trinocular head, 360° rotatable, 45° inclined, interpupillary distance 57–75 mm
Extra lenses	0.5x, 0.75x, 2x
Eyepieces	widefield 10x/22 mm
Microscope body	sturdy metallic base 180x240 mm with supportive rubber feet
ZOOM tube	0.8–50x, ZOOM ratio 6.3:1x
Working distance	115 mm
Light source	— adjustable — incident light: LED 12 V, 3 W — transmitted light: LED 12 V, 6 W
Power requirements	built-in, 220 V, 50 Hz
Fuses	250 V, 2 A
Temperature, humidity	18–35 °C, less than 85 %
Fuses	250 V, 2 A
Temperature, humidity	18–35 °C, less than 85 %

	Ordering Information	
	Description	**Code**
	MX 1150 (T) trinocular stereo microscope (Option 1)	**09.1500.03**
	MX 1150 (T) trinocular stereo microscope (Option 2)	**09.1500.13**
	MX 1150 (T) trinocular stereo microscope (Option 3)	**09.1500.23**
	MX 1150 (T) trinocular stereo microscope (Option 4)	**09.1500.33**

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
Viewing Head	trinocular viewing head, inclined at 45°
Eyepiece	wide field eyepiece EW10x/22
Zoom objective	0.8x–50x, ZOOM ratio 6.3:1x
Working distance	115 mm
Interpupillary Distance	52–75 mm
Illumination	transmitted illumination 100–240 V/LED
Additionally (on request)	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
Optical system	parallel optical ZOOM
Viewing head	binocular Head, 20° Inclination
Interpupilary distance	55–75 mm
Eyepiece	widefield EW 10x/22
ZOOM objective	— 0.8–80x, ZOOM ratio 1:10 — Plan Achromatic Objective 1x
Working distance	78 mm
Focusing	— coaxial coarse and fine focusing unit — focusing Range 105 mm
Illumination	transmission or Reflection LED Illumination, Brightness Adjustable
Additionally (on request)	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

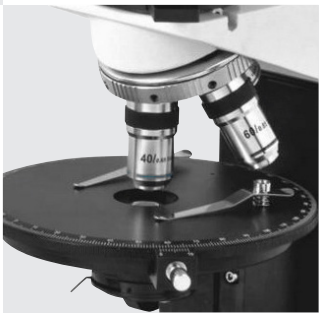
Ordering Information

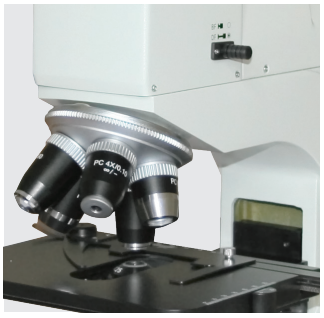
Description	Code
Viewing heads	
Binocular head	**09.0001.22**
Ergonomically binocular head, 0–30° inclination	**09.0001.23**
Photo/video attachment (1 port)	**09.0001.24**
Photo/video attachment (2 ports)	**09.0001.25**
Unit with iris diaphragm	**09.0001.26**
Light source	
L150. Additional external light source. Halogen cold light source. 230 V/150 W. Light adjustment. 2 flexible light guides, 55 cm length	**09.0005.03**
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 lens1.5x	**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**

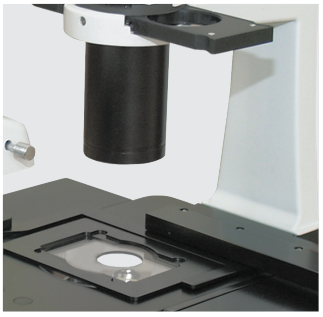
MX 1150, MX 1200, MX 1400 | Components and accessories

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 700 (T) | Inverted microscope

- Inverted brightfield and phase contrast microscope with ICO Infinitive 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

Head	— compensation trinocular ERGO head, variable inclination 5–35°, interpupillary distance 48–75 mm — photo/video attachment for trinocular ERGO head
Eyepiece	10x/22 mm extra widefield
Nosepiece	quintuple nosepiece
Objective	— LWD plan ICO Infinitive: 4x/0,10, 10x/0,25, 20x/0,40, 40x/0,65 — LWD phase-contrast plan ICO Infinitive: 10x/0,25, 20x/0,40
Phase contrast circular plate	10x, 20x
Stage	— 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
Condenser	nA 0.3, LWD 72 mm
Centering telescope	diameter 30 mm
Focusing	— separate coarse and fine focus controls — objective movement — coarse adjustment: 37.7 mm per turn — fine adjustment: 0.2 mm per turn
Illumination	halogen lamp 6 V, 30 W
Filters	blue, green
Power	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

Head	seidentopf type trinocular head
Eyepiece	WF 10x/18
Objective	Plan Achromat: 5x/0.12, 10x/0.25, 20x/0.40, 50x/0.75
Nosepiece	quadruple nosepiece
Stage	— double layer mechanical stage 150x140 mm — movement range 75x50 mm
Focusing	coaxial Fine & Coarse Adjustment
Illumination	Kohler illumination, Epi-illuminator with iris aperture diaphragm and iris field diaphragm, 3 V LED illumination, brightness adjustable
Filters	blue, green, yellow, ground
Additionally (on request)	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 Infinitive Optics
- For reflected and trasmitted light
- Infinitive 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

Magnification	— 1600x (transmitted light) — 1280x (reflected light)
Head	infinitive trinocular head, 360° rotatable, 30° inclined, ±5 D, interpupillary distance 55–75 mm
Eyepieces	— widefield 10x/18 mm — widefield eyepiece 10x/18 mm with 0.1 mm micrometer (1 pcs)
Microscope body	sturdy metallic base 280 x 280 mm with supportive rubber feet
Nosepiece	quintuple reverse-angle ball-bearing nosepiece with 3 slots for brightfield objectives and 2 slots for darkfield objectives
Converter	for brightfield and darkfield
Objectives	reflected light: — plan-achromat ICO Infinitive 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 Infinitive objectives: 40x/0.65 (spring loaded), 100x/1.25 (spring loaded, immersion oil)
Polarization set	built-in polarizer and analyzer
Stage	square stage with glass plate, 185x142 mm, mechanical graduated, right handed
Abbe condenser	Abbe condenser nA 1.25 with iris diaphragm, variable at height.
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	— incident light: halogen lamp, 50 W, 12 V — transmitted light: halogen lamp, 20 W, 12 V
Power requirements	220 V, 50 Hz
Fuses	250 V, 2 A
Temperature, humidity	18–35 °C, less than 85 %
Weight	14 kg

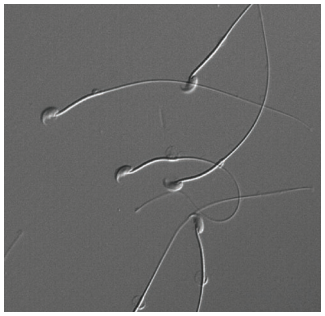
Ordering Information

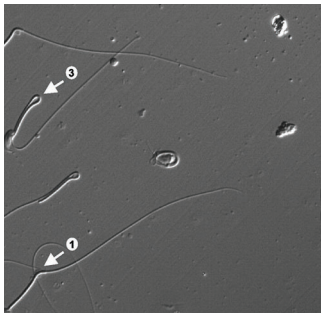
Description	Code
MX 1000 (T) trinocular metallurgical microscope, standard set	**09.1000.03**

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

Ordering Information

Description	Code
Eyepieces	
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**
Objectives (ISO Infinitive)	
Objective plan achromat ICO Infinitive 2,5x/0.08	**09.0003.60**
Objective plan achromat ICO Infinitive 4x/0.10	**09.0003.61**
Objective plan achromat ICO Infinitive 5x/0.12	**09.0003.62**
Objective plan achromat ICO Infinitive 10x/0.25	**09.0003.63**
Objective plan achromat ICO Infinitive 20x/0.40	**09.0003.64**
Objective plan achromat ICO Infinitive 40x/0.65, spring-loaded	**09.0003.65**
Objective plan achromat ICO Infinitive 50x/0.75, spring-loaded	**09.0003.66**
Objective plan achromat ICO Infinitive 100x/0.80, spring-loaded	**09.0003.68**
Polarizing set	
Polarization set. Includes polarizer and analyzer	**09.0008.06**
Filters	
Blue filter	**09.0004.01**
Green filter	**09.0004.02**
Yellow filter	**09.0004.03**
Matted filter	**09.0004.04**
LED	
LED element 12 V, 3 W, for MX 950	**09.0005.04**





MICROSCOPES FOR IN VITRO FERTILIZATION (IVF)

MX 1150 (T) STEREOMICROSCOPE FOR IN-VITRO FERTILIZATION (IVF)

MX 300 (T) BILOGICAL 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 Infinitive 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

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

Cameras and adapters

Ordering Information

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

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

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 managment
— 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**

MicroOptix

WEST MEDICA

West Medica Produktions- und Handels-GmbH
Brown-Boveri-Straße 6, B17-1
2351 Wiener Neudorf, Austria
tel.: +43 (0) 2236 892465, fax: +43 (0) 2236 892464
vienna@westmedica.com, www.microoptix.com

| www.microoptix.com |

Official Distributor

Rev 8.0_01.2024 EN