



If you love  
microscopes!



Microscopes





MICROS company has been founded in February 1994 and is mainly producing and supplying microscopes and microtomes for use in medical - technical laboratories, but also for applications in biological and industrial fields. New ergonomic design and new optics for different applications make our product range so successful.

Our flexibility allows us to focus on an extraordinary customer service and to adjust to special inquiries and demands.

It is an indisputable fact that quality is of prime importance for success, especially in view of Europe-wide competition and progressive globalization.

The ISO 9001 certification of management systems based on international standards, which MICROS obtained in 2004, plays a major role to qualify our company as a potential supplier to our customers.

# PINK/POPPY



## PINK MC50

Biological Microscope for Routine Laboratory Applications

### OPTICS

**Objectives:** ACHRO 4x/0.10, 10x/0.25, 40x/0.65 spring loaded and 100x/1.25 oil, spring loaded; **Condenser:** Abbé brightfield condenser n.A. 1.25, **Eyepieces:** WF 10x/18 widefield

### MECHANICS

**Body:** Sturdy base, 270 x 250 mm; **Head:** Binocular Siedentopf head, 30° inclined, 360° rotatable; **Nosepiece:** Quadruple ball bearing nose-piece; **Stage:** Double layer mechanical stage; **Illumination:** 6V 20W, adjustable for 100 – 240V

### OPTIONS

LED illumination, eyepieces securely lockable, aluminium case





## POPPY MC50 BAT / SUNBURST MC50 SOLAR

Cordless Biological Microscope for Outdoor Use

Same specifications as Pink MC50 but:

### ILLUMINATION

LED lamp powered by Lithium battery or by DC9V power supply. Estimated battery durability is over 8 hours at continuous operation. Recharge time: 5 - 6 hours. The microscope can be used while battery is being recharged. Battery is intended for 400 charges for about 20.000 hours total.

Compared to the classical halogen illumination the LED light has several advantages: Unlike halogen bulbs, the LED diodes do not emit heat and thus the housing and the specimen are not exposed to higher temperatures even after several working hours. Because of their robustness LEDs are less susceptible to damage during transport and use. They have a longer life time and a smaller energy consumption. Using a lower voltage they offer more security in handling."

### SUNBURST MC50 SOLAR

Specification like Poppy, but additional module to convert the sunlight into electricity. Charging time 10 hours for 6 - 7 working hours.



# PETUNIA/D



## PETUNIA MCX50

Reliable Biological Allrounder for Routine Laboratory and Educational Use

### OPTICS

**Objectives:** ICO Plan Infnitive 4x/0.10, 10x/0.25, 40x/0.65, spring loaded, 100x/1.25, Oil, spring loaded; **Condenser:** Abbé brightfield condenser n.A. 1.25; **Eyepieces:** WF 10x/18

### MECHANICS

**Body:** Sturdy base, 270 x 250 mm; **Head:** Binocular Siedentopf head, 30° inclined, 360° rotatable; **Nosepiece:** Quadruple ball bearing nose-piece, **Stage:** Double layer mechanical stage; **Illumination:** 6V 20W, adjustable for 100 – 240V

### OPTIONS

LED illumination, different eyepieces, eyepieces securely lockable, darkfield filter (central stop), aluminium case

# DAFFODIL



## DAFFODIL MCX100

Advanced Biological Microscope for Routine Laboratory Applications

### OPTICS

**Objectives:** ICO Plan Infnitive 4x/0.10, 10x/0.25, 40x/0.65 spring loaded and 100x/1.25 oil, spring loaded; **Condenser:** Abbé brightfield condenser n.A. 1.25; **Eyepieces:** EW 10x/20 widefield

### MECHANICS

**Body:** Sturdy base, 300 x 270 mm; **Head:** Arctype Binocular/Trinocular Siedentopf head, 30° inclined, 360° rotatable; **Nosepiece:** Quadruple, reverseangle mechanism; **Stage:** Double layer mechanical stage with innovative glass plate; **Illumination:** Koehler illumination, 6V 20W, adjustable for 100 – 240V

### OPTIONS

LED illumination, different eyepieces, photo/video, phase contrast, darkfield attachment. Eyepieces securely lockable, aluminium case



## CROCUS II MCX100 LCD

Computerized Realtime Digital Microscope for Teaching Purpose

### A COMPLETELY NEW GENERATION OF MICROSCOPES!

MICROS CROCUS II represents a big step forward - the computer system is integrated in the microscope and can transmit moving live images via W-LAN or LAN directly from the microscope into a local network. Take a step into a new age of microscopy and learn to use the advantages of digital applications. Perfect for researchers, educational use and many other applications.

- The big screen avoids visual fatigue associated with traditional microscope use
- Multiple users can share the image simultaneously
- The inbuilt image processing software allows for fast and easy image capture and editing
- The video function can display a live video image from any source
- Calibrated measuring capability including point to point, lines, circles and arrows





Optical specification of microscope same as DAFFODIL MCX100

#### **LCD SCREEN**

- Real time live camera
- 8.4 inch (21,3cm) TFT LCD screen (Touch Screen function)
- Resolution 800 x 600
- 2 Megapixel CMOS camera, real time camera USB 2.0
- SD interface, AV /VGA connection
- Image capture function
- Real time operating system WIN CE 5.0
- W-LAN and LAN function
- Video recording for MPEG-4
- MIC audio input, digital voice recording function
- Support audio output
- USB input for keyboard and mouse
- Measuring function



# ROSE/ORCH



## ROSE MC300

Biological Standard Microscope of the Flower Series MC300

### OPTICS

**Objectives:** S PLAN 4x/0.10, 10x/0.25, 40x/0.65 spring loaded and 100x/1.25 oil, spring loaded; **Condenser:** Abbé brightfield condenser n.A. 1.25; **Eyepieces:** WF 10x/18 widefield

### MECHANICS

**Body:** Sturdy high-tech cast aluminium base, 300 x 295 mm; **Head:** Binocular/Trinocular Siedentopf head, 30° inclined, 360° rotatable  
**Nosepiece:** Quintuple, reverse-angle mechanism; **Stage:** Double layer mechanical stage with innovative glass plate; **Illumination:** Koehler Illumination, 6V 20W, adjustable for 100 – 240V

### OPTIONS

LED illumination, different eyepieces, phase contrast, darkfield attachment, fluorescence, polarization, photo/video, aluminium case



## ORCHID MCX300

Biological Microscope for Sophisticated Laboratory Use

### OPTICS

**Objectives:** ICO PLAN Infinitive 4x/0.10, 10x/0.25, 40x/0.65 spring loaded and 100x/1.25 oil, spring loaded; **Condenser:** Abbé brightfield condenser n.A. 1.25; **Eyepieces:** EWF 10x/20 extra widefield

### MECHANICS

**Body:** Sturdy high-tech cast aluminium base, 300 x 295 mm; **Head:** Binocular/Trinocular Siedentopf head, 30° inclined, 360° rotatable  
**Nosepiece:** Quintuple, reverse-angle mechanism; **Stage:** Double layer mechanical stage with innovative glass plate; **Illumination:** Koehler illumination, 6V 30W, adjustable for 100 – 240V

### OPTIONS

LED illumination, different eyepieces, phase contrast, darkfield attachment, fluorescence, polarization, photo/video. Observation set for up to 3 people, aluminium case



# EDELWEISS

LED glass stage



## EDELWEISS MCP300

Polarization Microscope for Multiple Applications  
from Education to Research

### OPTICS

**Objectives:** ACHRO 4x/0.10, 10x/0.25, 40x/0.65 spring loaded and 60x/0.80 spring loaded, **Condenser:** Abbé brightfield condenser n.A. 1.25, **Eyepieces:** WF 10x/18 widefield, one pc. with cross hair Polarizer, Analyzer, Bertrand lens, first order compensation red plate, 1/4 wave-length testplate, quartz wedge

### MECHANICS

**Body:** Sturdy high-tech cast aluminium base, 300 x 295 mm; **Head:** Binocular/Trinocular Siedentopf head, 30° inclined, 360° rotatable  
**Nosepiece:** Quintuple, reverse-angle mechanism; **Stage:** Round stage, Ø 145 mm; **Illumination:** Optical light collector system, 6V 20W, adjustable for 100 – 240V

### OPTIONS

Different eyepieces, photo/video, aluminium case

# LILY

glass flash stage

glass stage



## LILY MCX500

Laboratory Microscope for Professional Research

### OPTICS

**Objectives:** ICO PLAN Infnitive 4x/0.10, 10x/0.25, 40x/0.65 spring loaded and 100/1.25 oil, spring loaded; **Condenser:** Abbé brightfield swing-out condenser, n.A. 0.9/1.25; **Eyepieces:** EW 10x/22 extra widefield, high-eyepoint

### MECHANICS

**Body:** Sturdy high-tech cast aluminium base, 380,5 x 295 mm; **Head:** Binocular ERGO head, inclination from 5° to 35°; **Nosepiece:** 6-tuple, reverse-angel mechanism; **Stage:** Double layer specimen stage, 243 x 158 mm with exchangeable, ultra-hardened, flexible glass plate; **Illumination:** Koehler illumination, 12V 50W, adjustable for 110/220 V

### OPTIONS

100W halogen light source, illumination kit for glass stage, photo/video port, phase contrast, darkfield, fluorescence and polarisation, observation set for up to 5 people, aluminium case



# SUNDEW



## SUNDEW MCXI600

Inverted Biological Microscope for Routine Examinations

### OPTICS

**Objectives:** ICO PLAN Infnitive for Brightfield or Phase Contrast observations

**Condenser:** ELWD brightfield condenser n.A. 0.3; **Eyepieces:** EW10x/22 extra widefield, high-eyepoint

### MECHANICS

**Body:** Sturdy high-tech cast aluminium base, 360 x 280 mm; **Head:** Binocular ERGO head; **Nosepiece:** Quintuple ball bearing nosepiece

**Stage:** Plain stage with inserted glass plate; **Illumination:** 6V 30W (brightfield), HBO100W (fluorescence), adjustable for 100 – 240V

### OPTIONS

Phase contrast, fluorescence, observation set for up to 5 people, photo/video, aluminium case

# RAZOR



## MICROS MANUAL MICROTOME RAZOR and STEELY

The Best Choice for Research and Routine Work in Biological, Medical and Industrial Field.

**Made in Germany for MICROS!** Highest precision allows a joyful using with greatest possible safety standard according class 4/MedGV. Guaranteed reliability through over-extension protection and sliding-clutch anti locking system in the coarse advance. Specimen changes are very easy to handle through advanced accessory design. Microtome lock conveniently integrated in the hand wheel.

### TECHNICAL FEATURES:

Micro and coarse advance movements are enclosed in housing. Section thickness adjustment possible from **0.5  $\mu\text{m}$  to 60  $\mu\text{m}$**  in defined steps. Precise guide way and clamping device for knifeholder with optimum sliding capability and prism guide. **Vertical stroke:** 70 mm; **Max. horizontal stroke:** 40 mm; With object orientation unit, adjustable in X/Y axis as option, and object clamp with fixed upper jaw for max. specimen size of 55 x 55 mm. Knife holder base for different knife holders. Many accessories for different applications available. **Length:** 460 x width 460 mm x height 280; **Weight:** 35 kg without accessories.



# COPPER/go



## COPPER MCXM800

Metallurgical Microscope for Extremely High Samples

### OPTICS

**Objectives:** MET ICO PLAN 5x/0.12, WD 15.4mm, 10x/0.25, WD 11.0mm, 20x/0.40, WD 6.0mm, 50x/0.75, WD 0.32mm; **Eyepieces:** EW 10x/20 widefield

### MECHANICS

**Body:** sturdy base 300 x 295 mm; **Head:** Binocular or trinocular Siedentopf head, 30° inclined, 360° rotatable; **Nosepiece:** quintuple; **Stage:** Double layer mechanical stage; **Illumination:** 6V/30W, adjustable for 100 – 240V, precentered collector system with Iris field diaphragm and Iris aperture diaphragm

### OPTIONS

ERGO binocular or trinocular head with inclination from 5° to 35°, Objective MET ICO PLAN 80x/0.90, WD 0.2mm, MET ICO PLAN 40x/0.60, WD 3.7mm, polarisation, photo/video attachments, digital cameras, aluminium case





## GOLD MCXI700

Inverted Metallurgical Microscope for the Material Science World

### OPTICS

**Objectives:** MET ICO PLAN 5x/0.12, WD 15.4mm, 10x/0.25, WD 11.0mm, 20x/0.40, WD 6.0mm, 50x/0.75, WD 0.32mm; **Eyepieces:** EWF 10x/22

### MECHANICS

**Body:** sturdy base 360 x 280 mm, **Head:** ERGO binocular or trinocular head with inclination from 5° to 35°, **Nosepiece:** quintuple, **Stage:** Plain stage with inserted plate, **Illumination:** 6V/30W, adjustable for 100 – 240V, precentered collector system with Iris field diaphragm and Iris aperture diaphragm

### OPTIONS

**Objective:** MET ICO PLAN 80x/0.90, WD 0.2mm, MET ICO PLAN 40x/0.60, WD 3.7mm, photo/video attachments, polarisation, digital cameras, mechanical stage, aluminium case





## BEE MICRO STEREO 1107

For hobby, educational and industrial fields

### OPTICS

**Head:** Binocular or trinocular tube; **Magnification:** Standard 10x or 30x

**Optical System:** Greenwich system

### MECHANICS

**Working Distance:** Standard 95 mm; **Illumination:** Incident light 9V 2W LED, transmitted light 9V 3W LED, to be used simultaneously

### OPTIONS

Different eyepieces





**HORNET MZ1280**  
 Infinitive Stereomicroscope

**OPTICS**

**Head:** Binocular or trinocular tube; **Magnification:** Standard 6 – 50 x; Zoom ratio 1 : 8,3; **Optical System:** Infinitive optical light path; **Eyepieces:** WFH 10x/22 High Eyepoint;

**MECHANICS**

**Working Distance:** Standard 95 mm; **Illumination:** Incident light 12V/3W LED, transmitted light 12V/4W LED to be used simultaneously

**OPTIONS**

Photo tube, auxiliary lenses, eyepieces, polarization, universal stands, extended arm stands, aluminium case



# gecko/spider



## GECKO MZ1000 / SPIDER MZ2000 / VIPER MZ3000 Infinite Zoom Stereomicroscope, Large Zoom Ratio

### OPTICS

**Objectives:** Binocular Head, inclined at 20 degree; **Eyepieces:** EW10x/22; **Optical System:** 1x Plan objective Infinity optical system;

**Magnification Gecko:** Zoom Ratio **1:6**; Zoom Range 0.8x-5x; Standard Magnification 8x-50x; Total Magnification Range 4x-200x

**Magnification Spider:** Zoom Ratio **1:8**; Zoom Range 0.8x-6,4x; Standard Magnification 8x-64x; Total Magnification Range 4x-256x

**Magnification Viper:** Zoom Ratio **1:10**; Zoom Range 0.8x-8x; Standard Magnification 8x-80x; Total Magnification Range 4x-320x



# der/viper



## MECHANICS

**Working Distance:** Standard 78 mm, coaxial coarse & fine focusing system; **Illumination:** Incident and transmitted LED light for 100-240V, can be used simultaneously. Incident light 3W LED, transmitted light 6W LED

## OPTIONS

ERGO head, auxiliary lenses 0,3x; 0,5x and 2,0x; eyepieces WF15x and WF20x, iris diaphragm, polarization, and darkfield attachments, , universal stands, extended arm stands, mechanical stage, temperature controlled stage



	PINK MC50	POPPY MC50BAT	PETUNIA MCX50	DAFFODIL MCX100	CROCUS MCX100LCD	ROSE MC300	ORCHID MCX300
<b>Objectives</b>	Achro4/10/40/100	Achro4/10/40/100	ICO Plan 4/10/40/100	ICO Plan 4/10/40/100	ICO Plan 4/10/40/100	S-PLAN 4/10/40/100	ICO PLAN 4/10/40/100
<b>Eyepieces</b>	WF10x/18	WF 10x/18	WF 10x/18	EW 10x/20	EW 10x/20	WF 10x/18	EW 10x/20
<b>LED Illumination</b>	o 5W	9V/2W	o 5W	o 5W	-	o 5W	o 5W
<b>Halogen Illumination</b>	6V/20W	-	6V/20W	6V/20W	6V/20W	6V/20W	6V/30W
<b>Koehler Illumination</b>	-	-	-	•	•	•	•
<b>Glass Stage</b>	-	-	-	•	•	•	•
<b>Brightfield</b>	•	•	•	•	•	•	•
<b>Phase Contrast</b>	-	-	-	o	-	o	o
<b>Darkfield</b>	-	-	-	o	-	o	o
<b>Polarization</b>	-	-	-	o	-	o	o
<b>Fluorescence</b>	-	-	-	-	-	o	o
<b>TV/Photo</b>	-	-	-	o	•	o	o
<b>Multi-Viewing</b>	-	-	-	-	-	-	o

All models adjustable for 110V/220V, 50/60Hz | Antifungus Treatment | o optional | • standard | **glass stage** models available with glass stage | **glass stage** option for Lily | **LED** models also available with LED illumination

	EDELWEISS MCP300	LILY MCX500	SUNDEW MCXI600	COPPER MCXM800	GOLD MCXI700	STEREO	MICROTOMES
<b>Objectives</b>	Achro4/10/40/60	ICO PLAN 4/10/40/100	LWD ICO PLAN 10/20	MET ICO PLAN Infinite 5/10/20/50	MET ICO PLAN Infinite 5/10/20/50		
<b>Eyepieces</b>	WF 10x/18 one with crosshair	EW 10x/22 High Point	EW 10x/22 High Point	EW 10x/20	EW 10x/22 High Point		
<b>LED Illumination</b>		-	-	-	-		
<b>Halogen Illumination</b>	6V/20W	•12V/50W ○12V/100W	6V/30W	6V/30W	6V/30W		
<b>Koehler Illumination</b>	-	•	-	-	•		
<b>Glass Stage</b>	-	•	-	-	-		
<b>Brightfield</b>	•	•	•	•	•		
<b>Phase Contrast</b>	-	○	○	-	-		
<b>Darkfield</b>	-	○	-	-	-		
<b>Polarization</b>	•	○	-	•	•		
<b>Fluorescence</b>	-	○	○	-	-		
<b>TV/Photo</b>	○	○	○	•	•		
<b>Multi-Viewing</b>	-	○	○	○	•		
						<p>BEE 1107  HORNET MZ1280  GECKO MZ1000  SPIDER MZ2000  VIPER MZ3000</p> <p>For technical specifications please see pages from 18 to 21</p>	<p>RAZOR  STEELY</p> <p>For technical specifications please see page 15</p>

# micros

MICROS AUSTRIA  
Hunnenbrunn-Gewerbezone 5  
9300 St. Veit/Glan, AUSTRIA  
Tel: +43/4212/30 901  
Fax: +43/4212/30 901 90  
office@micros.at, www.micros.at

...

registered business address:  
Breitenfurterstr. 38, 1120 Vienna, AUSTRIA

## www.micros.at

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