

Flower series

micros
AUSTRIA





FLOWER SERIES MC300

MC300 Series breaks new ground in microscopy with excellent optical performance and impressive cost-efficiency. The variety of the MC300 series offers the ideal instrument for every application area and thus is able to meet with the individual requirements of the users.



MC300 ROSE

WITH STANDARD
S-PLAN OBJECTIVES

Standard model of the Flower series MC300 with an excellent cost-performance ratio. Basic version already equipped with high contrast S-PLAN objectives and Koehler illumination. Available as 20W Halogen or 5W LED version. With its sturdy construction and easy handling it is destined to be an indispensable laboratory instrument. Since the design of the Flower series permits the upgrading with various accessories it is suited for a great variety of applications which could not be carried out before in this price range.

- OPTIONS**
- Darkfield
 - Phasecontrast
 - Fluorescence
 - Polarization
 - TV / Photo

MCP300 EDELWEISS

FOR TRANSMITTED
LIGHT-POLARIZATION

Quality for multiple applications from education to research! MCP300 Edelweiss is a high-class polarization microscope which meets the demands of many fields of research with its multiple features. It is appropriate for medical routine examinations as well as for industrial inspections.

- OPTIONS**
- TV / Photo

MCX300 ORCHID

WITH ICO PLAN
INFINITIVE OBJECTIVES

Fancy a clear, high-contrast image ... Orchid is equipped with ICO PLAN Optics (Infinite corrected). With these objectives you obtain high contrast images with lowest aberration and no shades over the whole field of view. The built-in Koehler illumination grants an optimization of the available light and in combination with the ICO PLAN optics brings a clear image. This model is particularly suitable for sophisticated scientific analysis and research.

- OPTIONS**
- Multi discussion bridge
 - Darkfield
 - Phasecontrast
 - Fluorescence
 - Polarization
 - TV / Photo



MC300 ROSE



MCX300 ORCHID

A BODY

A sturdy and elegantly designed aluminium metal base with integrated arm rests. The "Y" form of the stand ensures vibration resistant stability and therefore permits agitation free photography.

B ILLUMINATION

A powerful halogen (20 or 30W) or selectively a 5W LED illumination system assures bright and clear images. The usage of high-quality Philips bulbs secures a prolonged lifetime.

C ANTI-FUNGUS TREATMENT

Mould or fungus is a not to be underestimated enemy of microscopes. If Anti-Fungus-Treatment is applied to the optical parts of the microscopes it will protect them from mould even in high humidity regions.

D HEADS

Binocular or trinocular tubes, 360° rotatable with an inclination of 30°, or an ERGO tube with a variable inclination from 5° to 35° allow for the greatest possible relief of the neck musculature. Adjustable interpupillary distance with diopter compensation can be adapted individually from 55 mm to 75 mm. The eyepieces are suitable for spectacle wearers too.

E NOSEPIECE

A quintuple reverse angle precise ball-bearing nosepiece as standard permits to survey the complete surface of the specimen and thus to scan it much faster.

F GLASS STAGE

Sometimes with standard tables after many working hours you have the problem of scratched, tarnished surfaces. From now on this sad fact can be changed easily. We offer a stage with an inserted ultra-hardened glass plate, which is flexible and resistant against chemical fluids. Also, because of the frosted screen, it is now possible to make a preselecting of your specimens. An extra - safety glass and finish-machined edges guarantee save and aesthetic work. The glass stage is a standard feature models MC300 Rose and MCX300 Orchid.

G PRACTICE HANDLING

Is a MUST for people operating with a microscope all day. Therefore all operation controls are designed and positioned as user-friendly as possible.

H THE FOCUS CONTROL LEVEL

Can set the upper movement of the stage. This is useful on the one hand to protect the specimen and the objectives from damage, on the other hand for a quick retrieving of the once adjusted sharpness level.

I COAXIAL COARSE AND FOCUSING KNOB

Allows to adjust an individual torque for the user. Strain-free focusing with hands placed on the desk is taken for granted.



MCP300 EDELWEISS

accessories

1 SIMPLE POLARIZATION SET

Allows for transmitted light polarization for a magnification between 40x and 1000x. The polarizer is put directly on top of the Koehler illumination on the field diaphragm or collector system. The analyzer is inserted in the designated slot between head and stand.

2 TURRET PHASECONTRAST SET

If you simply rotate the turret, this condenser can be used for three different types of microscopy applications: for bright-field with a magnification up to 1000x, for darkfield with a magnification up to 400x and for phase contrast. The set is equipped with phase contrast ICO PLAN objectives 10x, 20x, 40x and 100x.

3 FLUORESCENCE

Reflected light fluorescence attachment for green, blue and UV excitation. In the field of clinical microscopy, auto fluorescence microscopy or for educational purposes, the fluorescence attachment for MC300 series meets with multiple demands. The positions for green-, blue- and UV excitation, as well as for brightfield (transmitted light) can be changed quickly by a slider.

4 FLEXIBLE GLASS STAGE

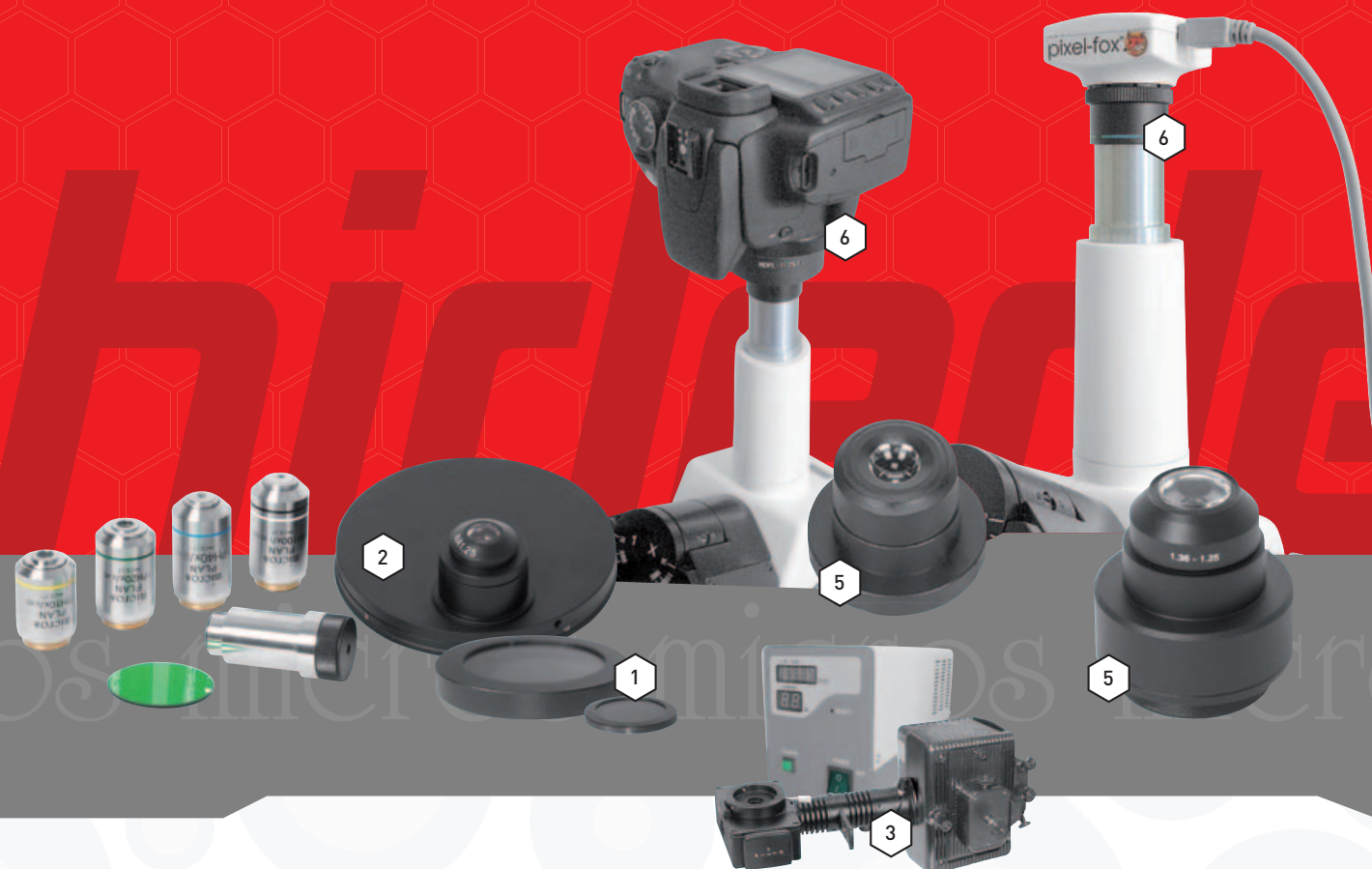
From now on this sad fact can be changed easily. We offer a stage with an inserted ultra-hardened glass plate, which is flexible and resistant against chemical fluids. Also, because of the frosted screen, it is now possible to make a preselecting of your specimens. An extra - safety glass and finish-machined edges guarantee save and aesthetic work. So the problem of scratched, ugly surfaces belongs to history.

5 DARKFIELD

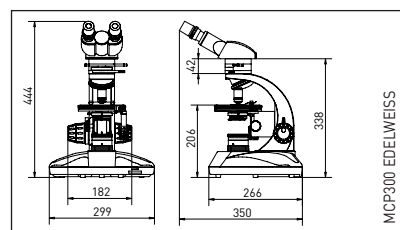
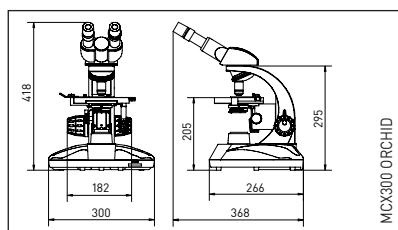
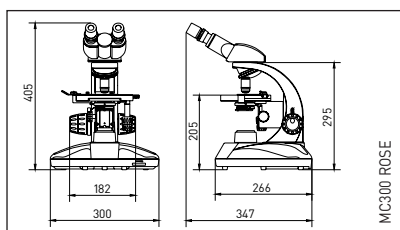
Through the optical system the dry darkfield condenser allows for high-contrast darkfield observations without oil immersion optic. For magnifications 100x, 200x and 400x with a numerical aperture up to 0.65. The immersion darkfield condenser makes visible unstained specimen at a high magnification. We offer a high quality Cardoid type for high power use (n.A. 1.25) in a centering mount. Only to be used with objective 100x with iris.

6 DOCUMENTATION SYSTEMS

Convenient accessories for various forms of documentation are available. You can either use a video camera CAM5000 or - thanks to special MICROS digital camera adapters - other models like digital compact or digital SLR cameras. For LIVE/REAL TIME imaging new CCD cameras with USB 2 connections are available. To check the latest models, please visit our website.



Magnification Range	40x - 1000x	•	•	•
Microscope Body	Sturdy, high-tech aluminium casting, 300 x 295 mm base with supportive anti-vibration rubber feet.	•	•	•
Nosepiece	Quintuple, reverse-angle mechanism with multiple ball bearings, elastic nosepiece grip ring.	•	•	•
Head	Binocular or trinocular Siedentopf head, 30° inclined, 360° rotatable, interpupillary distance 55 – 75 mm, provided with Anti-Fungus Treatment	•	•	•
Stage	Double layer mechanical stage, 160 x 140 mm, with exchangeable, ultra-hardened, flexible glass plate. Moving range 85 x 60 mm with low position coaxial course and calibrated fine focus control. Total focusing range 40 mm.	•	•	
	Round stage, Ø 145 mm, 360° rotatable and graduated in 1° increments, minimum resolution 6' when using vernier scale, center adjustable.			•
Condenser	Abbé brightfield condenser, n.A. 1.25, aperture diaphragm with positive guide marking for respective objectives, with integrated iris diaphragm.	•	•	•
Collector system	Koehler illumination	•	•	
	Optical light collector system			•
Eyepieces	2 pcs. WF 10x/18 widefield	•		
	2 pcs. EW 10x/20 extra widefield		•	
	1 pc. WF 10x/18 widefield Cross hair 1 pc. WF 10x/18 widefield			•
Objectives	ACHRO 4x, 10x, 40x, 60x			•
	S PLAN 4x/0.10	•		•
	S PLAN 10x/0.25	•		•
	S PLAN 40x/0.65, spring loaded	•		•
	S PLAN 100x/1.25 oil, spring loaded	•		
	ICO PLAN Infnitive 4x/0.10			•
	ICO PLAN Infnitive 10x/0.25			•
	ICO PLAN Infnitive 40x/0.65, spring loaded ICO PLAN Infnitive 100x/1.25 oil, spring loaded			•
Illumination	Power supply inbuilt, 6V 20W halogen bulb, switchable to 110/220V, 50/60Hz	•		•
	Power supply inbuilt, 6V 30W halogen bulb, switchable to 110/220V, 50/60Hz			•
	LED 5W as an option	•	•	
Focusing Level	Adjustable	•	•	•
CA Tension Control	Adjustable	•	•	•
Accessories	Dust cover, blue filter, immersion oil, instruction manual, fuses, 2 pcs. PHILIPS 6V 20W halogen bulbs	•		•
	Dust cover, blue filter, immersion oil, instruction manual, fuses, 2 pcs. PHILIPS 6V 30W halogen bulbs			•
	Bertrand lens, in/out swinging of optical path, 0°-90° rotatable analyzer. First order red compensation plate, 1/4 wave-length test plate, quartz wedge. Swing-out polarizer 360°, located on the light collector.			
Options	5W LED illumination, ERGO head, aluminium case, different eyepieces, phasecontrast, darkfield attachment, fluorescence, polarization, photo/video. Multi discussion bridge etc.	•	•	•



MC300 ROSE

MCX300 ORCHID

MCP300 EDELWEISS

Microscope design developed by MICROS Austria. Specifications and equipment are subject to change without any obligation on the part of the manufacturer.

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