

Biological Microscopes

Flower Series



Microscopes

Flower Series MC300

MC300 Series breaks new ground in microscopy with excellent optical performance and impressive cost-efficiency.

The new Micros model MC300 was further developed optically as well as mechanically from the already established MC300A. Furthermore it appears in a completely new ergonomic design. 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.

The following models are available:

"ROSE" MC300	with Standard S PLAN Objectives
"ORCHID" MCX300	with ICO PLAN Infinitive Objectives
"EDELWEISS" MCP300	for Transmitted Light-Polarization
"LOTUS" MCD300	with 100W halogen illumination for sophisticated brightfield, phasecontrast and darkfield examinations (e.g. live blood)



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.



Illumination

20W halogen illumination system as standard, 30W or even 100W halogen assures bright and clear images. The usage of high-quality Philips bulbs secures a prolonged lifetime.

Anti-Fungus Treatment

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



Heads

Binocular or trinocular tubes, 360° rotatable with an inclination of 30° 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.



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.

Practical 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.

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.



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.

Accessories



Fluorescence ①

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 of 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.



Simple Phasecontrast Set ②

For the routine display of unstained, low-contrast specimen at magnifications 100x and 400x. Depending on the position of the slider either brightfield or phasecontrast observation is possible.



Turret Phasecontrast Set ③

If you simply rotate the turret, this condenser can be used for three different types of microscopy applications: For brightfield, darkfield, and phasecontrast. It works with phasecontrast objectives 10x, 20x, 40x and 100x.



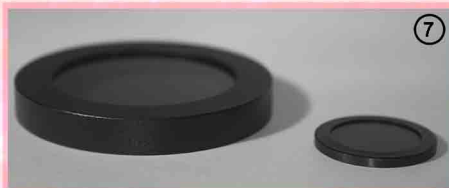
Darkfield

④ With a darkfield filter that is inserted in the filter tray of the condenser cost-efficient darkfield observation especially for educational purposes is possible for a magnification from 40x up to 400x.

⑤ 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.



⑥ The immersion darkfield condenser makes visible unstained specimen at a high magnification. We offer a high quality Cardiod type for high power use (n.a. 1.25) in a centering mount. Only to be used with objective 100x with iris.



Simple Polarization Set ⑦

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



Documentation Systems ⑧

Convenient accessories for various documentation applications are available. You can either use a video camera CAM1800 or CAM5000 or - thanks to the special MICROS digital camera adapters - other models like digital compact or digital SLR cameras. For LIVE/REAL TIME imaging new Fire wire CCD cameras with USB 2 connection are available. To check the latest models, please visit our website: http://www.micros.at/english/products/content_microscopes.htm



Koehler Illumination ⑨

All models of the MC300 series (optional for MC300 'Rose') are equipped with a field iris diaphragm and an auxiliary lens for Koehler illumination. This accessory impedes stray light and by allowing to center the light path it grants a high-contrast microscope image. These are ideal conditions for perfect micro photography.

MCD300 **LOTUS**
Brightfield Standard

Options

- ✓ Darkfield
(e.g. Live-Blood)
- ✓ Phasecontrast
- ✓ Fluorescence
- ✓ Polarization
- ✓ TV / Photo

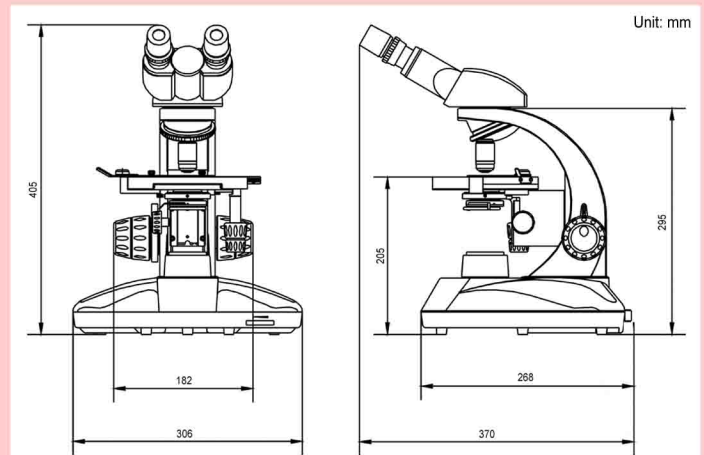


LOTUS MCD300

For light-intensive examinations, e.g. live blood. In the immersion dark field range at a magnification of 1000x a lot of homogeneous light is necessary, especially if the picture is viewed through a video camera or taken by a photography camera at the same time. The MCD300 with external 100W halogen illumination and a fiber optic light guide meets these high demands.

The cold light illumination protects sensitive specimen from being damaged. Naturally the illumination system can also be used for brightfield, phasecontrast and polarization.

It can be used for all applications that require a lot of light, high magnifications and concurrent documentation or observation.



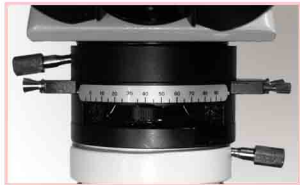
Dimensions of microscope carton: L 36,5 x B 35 x H 60 cm, Net Weight 8 kg, Gross Weight 10 kg
Dimensions of light source carton: L 38 x B 29 x H 17 cm, Net Weight 2 kg, Gross Weight 3 kg

MCP300 **EDELWEISS** Polarization



Options

✓ TV / Photo

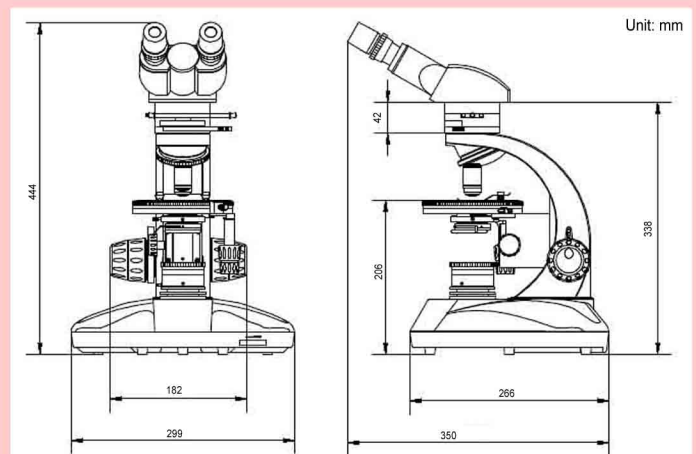


EDELWEISS MCP300

Quality for multiple applications from education to research!

MCP300 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.



Dimensions of carton: L 36,5 x B 35 x H 60 cm, Net Weight 9,5 kg, Gross Weight 11 kg

MCX300 ORCHID

Brightfield Standard

Options

- ✓ Darkfield
- ✓ Phasecontrast
- ✓ Fluorescence
- ✓ Polarization
- ✓ TV / Photo



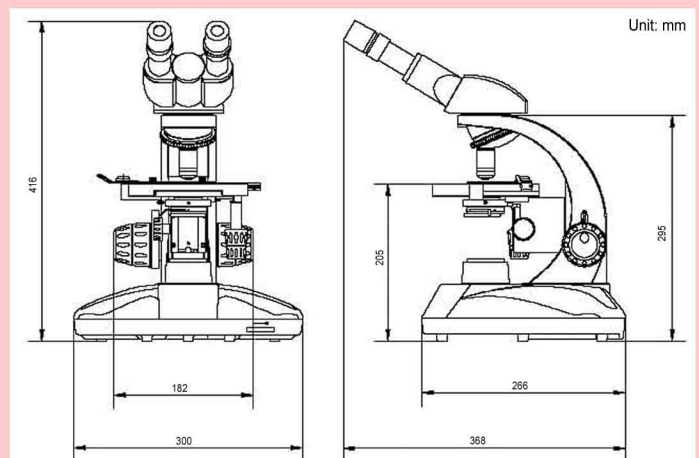
ORCHID MCX300

Fancy a clear, high-contrast image ...

“Orchid” is equipped with the new ICO Optics (Infinitive 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 Optics brings about a clear image.

This model is particularly suitable for sophisticated scientific analyses and research.



Dimensions of carton: L 36,5 x B 35 x H 60 cm, Net Weight 9,5 kg, Gross Weight 11 kg

MC300 ROSE

Brightfield Standard

Options

- ✓ Darkfield
- ✓ Phasecontrast
- ✓ Fluorescence
- ✓ Polarization
- ✓ TV / Photo

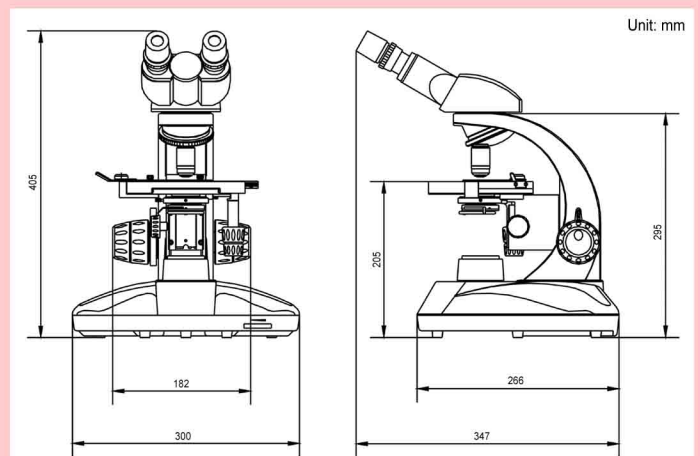


ROSE MC300

Standard model of the Flower series MC300 with an excellent cost-performance ratio. Basic version already equipped with high contrast S-PLAN objectives.

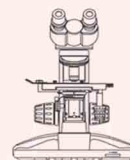
With its sturdy construction and easy handling it is destined to be an indispensable laboratory instrument.

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.



Dimensions of carton: L 36,5 x B 35 x H 60 cm, Net Weight 9,5 kg, Gross Weight 11 kg

Specifications



micros
If you love microscopes!

		MC300 "Rose"	MCX300 "Orchid"	MCP300 "Edelweiss"	MCD300 "Lotus"
Magnification Range	20x - 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 specimen stage, size 140 x 130 mm, moving range 74 x 50 mm with low position, coaxial coarse and calibrated fine focus control with graduation reading 2 microns per division. 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, integrated iris diaphragm and filter tray	•	•	•	•
Collector system	Koehler illumination		•		•
	Optical light collector system	•		•	
Eyepieces	2 pcs. WF 10x/18 widefield	•			•
	2 pcs. EWF 10x/20 extra widefield		•		
	1 pc. WF 10x/18 widefield Cross hair			•	
	1 pc. WF 10x/18 widefield				
Objectives	S PLAN 4x/0.10	•		•	
	S PLAN 10x/0.25	•		•	•
	S PLAN 40x/0.65, spring loaded	•		•	•
	S PLAN 60x/0.80, spring loaded			•	
	S PLAN 100x/1.25 oil, spring loaded	•			•
	ICO PLAN Infinite 4x/0.10				
	ICO PLAN Infinite 10x/0.25		•		
	ICO PLAN Infinite 40x/0.65, spring loaded				
Illumination	ICO PLAN Infinite 100x/1.25 oil, spring loaded				
	Power supply inbuilt, 6V 20W halogen bulb, adjustable for 110/220V, 50/60Hz	•		•	
	Power supply inbuilt, 6V 30W halogen bulb, adjustable for 110/220V, 50/60Hz		•		
Power Cord	Detachable	•	•	•	•
	Adjustable	•	•	•	•
	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		•		
	Dust cover, blue filter, immersion oil, instruction manual, 2 pcs. PHILIPS 12V 100W 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.			•	
	Aluminium case, different eyepieces, phasecontrast, darkfield attachment, fluorescence, polarization available, photo/video. Multi discussion bridge etc.	•	•	•	•

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

micros

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