







N.A. 0,3 Abbe Condenser with phase contrast slide



Coaxial control knobs for x/y can be fitted either left or right

LAB LINE

The inverted biological laboratory microscope – also with fluorescence

Features

- The OCM range stands out through its design which is ergonomic, robust and extremely stable. This design, with its large working distance, is particularly suitable for the monitoring and analysis of cell cultures, for example.
- A strong and continuously adjustable 30W halogen illumination unit ensures the optimum illumination in the bright field of your samples. An additional Osram 100 W Epi fluorescence illumination unit is available to you as a fluorescence microscope (OCM 165) for perfect illumination and excitation of your fluorescence samples.
- · A special Abbe N.A. 0.3 condenser with aperture diaphragm and large working distance of 72 mm guarantees the very best working practise in the bright field and with fluorescence applications.
- · As standard, the OCM range is fitted with a trinocular eyepiece tube.

- The mechanical stage including specimen holder (Ø 118 mm) means that you can work quickly and effectively. Further brackets for petri dishes are included with delivery or available as accessories.
- · Further options such as, for example, a selection of eyepieces, objectives, specimen holders and other phase contrast units can be integrated as accessories.
- · A dust cover as well as user instructions are included with the delivery.
- · Please find detailed information in the following charts.

Scope of application

· Research and breeding of cell cultures and tissue cultures

Applications/Samples

· Particularly for viewing samples in culture vessels (flasks, petri dishes, microtitre plates), translucent, thin, low-contrast, challenging samples (e.g. living mammal cells, tissue, microorganisms if necessary, Immunofluorescence, FISH, DAPI staining etc.)

Technical data

- · Infinity optical system
- · Quintuple nosepiece
- · Siedentopf 45° inclined
- · Diopter adjustment: Both-sided

- · Overall dimensions W×D×H 304x599x530 mm
- · Net weight approx. 13,5 kg

OCM 165

- Overall dimensions W×D×H 304x782x530 mm
- · Net weight approx. 21 kg













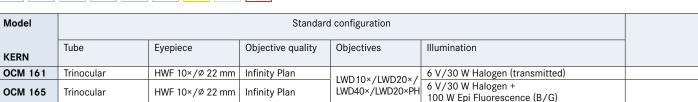














Model outfit		Model KERN		Order number
		OCM 161	OCM 165	
Eyepieces (30 mm)	HWF 10×/ø 22 mm (adjustable)	**	**	OBB-A1491
Infinity	4×/0,11 W.D. 12,1 mm	0	0	OBB-A1493
Plan achromatic	10×/0,25 W.D. 8,3 mm	✓	✓	OBB-A1494
objectives for long working	20×/0,40 W.D. 7,2 mm	✓	✓	OBB-A1495
distance	40×/0,60 W.D. 3,4 mm	✓	✓	OBB-A1496
Trinocular tube	 45° inclined Interpupillary distance 48-76 mm Light distribution 100:0 Diopter adjustment: Both-sided 	√	✓	
Mechanical stage	Stage size W×D 210×241 mm Travel128x80 mm Coaxial coarse and fine focusing knobs The x/y control knobs can be fitted either left or right Suitable for attaching a 96-hole microtitre plate	*	*	
	Drop specimen holder (Ø 110)	✓	✓	OBB-A1503
	Specimen holder for 35 mm culture dish	0	0	OBB-A1505
	Specimen holder for 54 mm culture dish	✓	✓	OBB-A1506
	Specimen holder for 65 mm culture dish	0	0	OBB-A1507
Condenser	Abbe N.A. 0,3 (aperture diaphragm), LWD 72 mm	✓	✓	
Illumination	6 V/30 W Halogen spare bulb (transmitted)	✓	✓	OBB-A1372
Phase contrast units	Phase contrast slide (universal)	✓	✓	OBB-A1500
	Infinity PH-Plan objective 10×	0	0	OBB-A1497
	Infinity PH-Plan objective 20×	✓	✓	OBB-A1498
	Infinity PH-Plan objective 40×	0	0	OBB-A1499
Fluorescence unit	100 W HBO Epi Fluorescence unit, two-hole slide (B/G)		✓	OBB-A1516
	Blue	✓	✓	OBB-A1510
Colour filters	Green	✓	✓	OBB-A1511
for transmitted illumination	Yellow	0	0	OBB-A1512
	Gray	0	0	OBB-A1513
C-Mount	0,5×	0	0	OBB-A1515
	1×	0	0	OBB-A1514

✓ = Included with delivery

O = Option

KERN Pictograms:





360° rotatable microscope head



Fluorescence illumination for compound microscopes With 3W LED illumination and filter



SD card

For data storage



Monocular Microscope

For the inspection with one eye



Phase contrast unit For a higher contrast



PC software

To transfer the measurements from the device to a PC.



Binocular Microscope

For the inspection with both eyes



Darkfield condenser/unit

For a higher contrast due to indirect illumination



Automatic temperature compesation

For measurements between 10 °C and 30 °C



Trinocular Microscope

For the inspection with both eyes and the additional option for the connection of a camera



Polarising unit

To polarise the light



Protection against dust and water

splashes IPxx The type of protection is shown by the pictogram.



Abbe Condenser

With high numerical aperture for the concentration and the focusing of light



Infinity system

Infinity corrected optical system



Battery operation

Ready for battery operation. The battery type is specified for each device.



Halogen illumination

For pictures bright and rich in contrast



Zoom magnification

For stereomicroscopes



Battery operation rechargable

Prepared for a rechargable battery operation



LED illumination

Cold, energy saving and especially long-life illumination



Parallel optical system

For stereomicroscopes, enables fatigue-proof working



Mains adapter

230V/50Hz in standard version for EU. On request GB, AUS or USA version.



Incident illumination

For non-transparent objects



❖

USB 2.0

Integrated scale

In the eyepiece



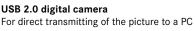
Power supply

Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB. AUS or USA on request.



Transmitting illumination

For transparent objects





WARRANTY

Package shipment

The time required to manufacture the product internally is shown in days in the pictogram.



Fluorescence illumination

For stereomicroscopes





Warranty The warranty period is shown in the



Fluorescence illumination for compound microscopes

With 100W mercury lamp and filter



USB 3.0

HDMI digital camera

For direct transmitting of the picture to a display device

Abbreviations

C-Mount Adapter for the connection of a

camera to a trinocular microscope

FPS Frames per second H(S)WF High (Super) Wide Field

(Eyepiece with high eye point for wearers of glasses)

LWD Long Working Distance

N.A. **Numerical Aperture**

SLR Kamera Single-Lens Reflex camera

Super Wide Field **SWF**

pictogram.

(Field number at least Ø 23 mm

for 10× eyepiece)

Working Distance W.D.

WF Wide Field (Field number up to

Ø 22 mm for 10× eyepiece)

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