NEW

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 (⌀ 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.)

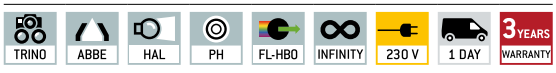
Technical data

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

OCM 161
- 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

STANDARD



Model	Standard configuration					
KERN	Tube	Eyepiece	Objective quality	Objectives	Illumination	
OCM 161	Trinocular	HWF 10×/⌀ 22 mm	Infinity Plan	LWD10×/LWD20×/ LWD40×/LWD20×PH	6 V/30 W Halogen (transmitted)	
OCM 165	Trinocular	HWF 10×/⌀ 22 mm	Infinity Plan		6 V/30 W Halogen + 100 W Epi Fluorescence (B/G)	

KERN & SOHN GmbH • Ziegelei 1 • 72336 Balingen • Germany • Tel. + 49-[0]7433-9933-0 • Fax + 49-[0]7433-9933-149 • www.kern-sohn.com • info@kern-sohn.com

Model outfit		Model KERN		Order number	
		OCM 161	OCM 165		
Eyepieces (30 mm)	HWF 10×/⌀ 22 mm (adjustable)	✓✓	✓✓	OBB-A1491	
Infinity Plan achromatic objectives for long working distance	4×/0,11 W.D. 12,1 mm	○	○	OBB-A1493	
	10×/0,25 W.D. 8,3 mm	✓	✓	OBB-A1494	
	20×/0,40 W.D. 7,2 mm	✓	✓	OBB-A1495	
	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 · Travel 128x80 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 (⌀ 110)	✓	✓	OBB-A1503	
	Specimen holder for 35 mm culture dish	○	○	OBB-A1505	
	Specimen holder for 54 mm culture dish	✓	✓	OBB-A1506	
	Specimen holder for 65 mm culture dish	○	○	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×	○	○	OBB-A1497	
	Infinity PH-Plan objective 20×	✓	✓	OBB-A1498	
	Infinity PH-Plan objective 40×	○	○	OBB-A1499	
Fluorescence unit	100 W HBO Epi Fluorescence unit, two-hole slide (B/G)		✓	OBB-A1516	
Colour filters for transmitted illumination	Blue	✓	✓	OBB-A1510	
	Green	✓	✓	OBB-A1511	
	Yellow	○	○	OBB-A1512	
	Gray	○	○	OBB-A1513	
C-Mount	0,5×	○	○	OBB-A1515	
	1×	○	○	OBB-A1514	

✓ = Included with delivery ○ = Option

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KERN Pictograms:

360° rotatable microscope head

Monocular Microscope
For the inspection with one eye

Binocular Microscope
For the inspection with both eyes

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

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

Halogen illumination
For pictures bright and rich in contrast

LED illumination
Cold, energy saving and especially long-life illumination

Incident illumination
For non-transparent objects

Transmitting illumination
For transparent objects

Fluorescence illumination
For stereomicroscopes

Fluorescence illumination for compound microscopes
With 100 W mercury lamp and filter

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

Phase contrast unit
For a higher contrast

Darkfield condenser/unit
For a higher contrast due to indirect illumination

Polarising unit
To polarise the light

Infinity system
Infinity corrected optical system

Zoom magnification
For stereomicroscopes

Parallel optical system
For stereomicroscopes, enables fatigue-proof working

Integrated scale
In the eyepiece

USB 2.0 digital camera
For direct transmitting of the picture to a PC

USB 3.0 digital camera
For direct transmitting of the picture to a PC

HDMI digital camera
For direct transmitting of the picture to a display device

SD card
For data storage

PC software
To transfer the measurements from the device to a PC.

Automatic temperature compesation
For measurements between 10 °C and 30 °C

Protection against dust and water splashes IPxx
The type of protection is shown by the pictogram.

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

Battery operation rechargable
Prepared for a rechargable battery operation

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

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

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

Warranty
The warranty period is shown in the pictogram.

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

SWF Super Wide Field (Field number at least ⌀ 23 mm for 10× eyepiece)

W.D. Working Distance

WF Wide Field (Field number up to ⌀ 22 mm for 10× eyepiece)

Your KERN specialist dealer: