

Inverted microscope KERN OCM-1



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. In addition, either an Osram 100 W-HBO- (OCM 165/166) or a 5 W-LED Epi fluorescence incident illumination unit (OCM 167/168) are available to you as a fluorescence microscope for perfect illumination and stimulation 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 model outfit list

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 304×599×530 mm
- Net weight approx. 13,5 kg

OCM 165-168

- Overall dimensions W×D×H 304×782×530 mm
- Net weight approx. 21 kg

STANDARD



Model	Standard configuration				
	Tube	Eyepiece	Objective quality	Objectives	Illumination
OCM 161	Trinocular	HWF 10×/∅ 22 mm	Infinity Plan	LWD10×/LWD20×/ LWD40×/LWD20×PH	30 W Halogen (transmitted)
OCM 165	Trinocular	HWF 10×/∅ 22 mm	Infinity Plan		30 W Halogen + 100 W Epi Fluorescence (B/G)
OCM 166 <small>NEW</small>	Trinocular	HWF 10×/∅ 22 mm	Infinity Plan		30 W Halogen + 100 W Epi Fluorescence (UV/V/B/G)
OCM 167 <small>NEW</small>	Trinocular	HWF 10×/∅ 22 mm	Infinity Plan		5W-LED + 5W Epi Fluorescence (B/G)
OCM 168 <small>NEW</small>	Trinocular	HWF 10×/∅ 22 mm	Infinity Plan		5W-LED + 5W Epi Fluorescence (UV/V/B/G)

NEW New model

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Model outfit		Model KERN					Order number
		OCM 161	OCM 165	OCM 166	OCM 167	OCM 168	
Eyepieces (30 mm)	HWF 10×/ø 22 mm (adjustable)	✓✓	✓✓	✓✓	✓✓	✓✓	OBB-A 1491
	HWF 10×/ø 22 mm (reticule 0,1 mm) (adjustable)	○	○	○	○	○	OBB-A 1523
Infinity Plan achromatic objectives for long working distance	4×/0,11 W.D. 12,1 mm	○	○				OBB-A 1493
	10×/0,25 W.D. 8,3 mm	✓	✓				OBB-A 1494
	20×/0,40 W.D. 7,2 mm	✓	✓				OBB-A 1495
	40×/0,60 W.D. 3,4 mm	✓	✓				OBB-A 1496
Infinity Plan achromatic Fluor objectives for long working distance	4×/0,11 W.D. 12,1 mm			○	○	○	OBB-A 1600
	10×/0,25 W.D. 10,3 mm			✓	✓	✓	OBB-A 1601
	20×/0,40 W.D. 5,8 mm			✓	✓	✓	OBB-A 1602
	40×/0,60 W.D. 5,1 mm			✓	✓	✓	OBB-A 1603
Trinocular tube	<ul style="list-style-type: none"> 45° inclined Interpupillary distance 48-76 mm Light distribution 100:0 Diopter adjustment: Both-sided 	✓	✓	✓	✓	✓	
Mechanical stage	<ul style="list-style-type: none"> Stage size W×D 210×241 mm Travel 128×80 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-A 1503
	Specimen holder for 35 mm culture dish	○	○	○	○	○	OBB-A 1505
	Specimen holder for 54 mm culture dish	✓	✓	✓	✓	✓	OBB-A 1506
	Specimen holder for 65 mm culture dish	○	○	○	○	○	OBB-A 1507
Condenser	Abbe N.A. 0,3 (aperture diaphragm), LWD 72 mm	✓	✓	✓	✓	✓	
Illumination	30 W Halogen spare bulb (transmitted)	✓	✓				OBB-A 1372
	5 W LED spare bulb (transmitted)				✓	✓	OBB-A 1589
Phase contrast units	Phase contrast slide 4x	○	○	○	○	○	OBB-A 1608
	Phase contrast slide 10x	✓	✓	✓	✓	✓	OBB-A 1609
	Phase contrast slide 20x/40x	✓	✓	✓	✓	✓	OBB-A 1610
	Infinity PH-Plan objective 10×	○	○				OBB-A 1497
	Infinity PH-Plan objective 20×	✓	✓				OBB-A 1498
	Infinity PH-Plan objective 40×	○	○				OBB-A 1499
	Infinity PH-Plan Fluor objective 4×			○	○	○	OBB-A 1604
	Infinity PH-Plan Fluor objective 10x			○	○	○	OBB-A 1605
	Infinity PH-Plan Fluor objective 20x			✓	✓	✓	OBB-A 1606
	Infinity PH-Plan Fluor objective 40x			○	○	○	OBB-A 1607
	Centering eyepiece	○	○	○	○	○	OBB-A 1544
Fluorescence unit	100 W HBO Epi Fluorescence unit, two-hole slide (B/G)		✓				
	100 W HBO Epi Fluorescence unit, four-hole slide (UV/V/B/G)			✓			
	5 W HBO Epi Fluorescence unit, two-hole slide (B/G)				✓		
	5 W HBO Epi Fluorescence unit, four-hole slide (UV/V/B/G)					✓	
Colour filters for transmitted illumination	Blue	✓	✓	✓	✓	✓	OBB-A 1510
	Green	✓	✓	✓	✓	✓	OBB-A 1511
	Yellow	○	○	○	○	○	OBB-A 1512
	Grey	○	○	○	○	○	OBB-A 1513
C-Mount	0,5×	○	○	○	○	○	OBB-A 1515
	1×	○	○	○	○	○	OBB-A 1514

✓ = Included with delivery

○ = Option

Pictograms

360° rotatable microscope head	Fluorescence illumination for compound microscopes With 3 W LED illumination and filter	WLAN data interface For transmitting of the picture to a mobile display device
Monocular Microscope For the inspection with one eye	Phase contrast unit For a higher contrast	HDMI digital camera For direct transmitting of the picture to a display device
Binocular Microscope For the inspection with both eyes	Darkfield condenser/unit For a higher contrast due to indirect illumination	PC software To transfer the measurements from the device to a PC
Trinocular Microscope For the inspection with both eyes and the additional option for the connection of a camera	Polarising unit To polarise the light	Automatic temperature compensation For measurements between 10 °C and 30 °C
Abbe Condenser With high numerical aperture for the concentration and the focusing of light	Infinity system Infinity corrected optical system	Protection against dust and water splashes IPxx The type of protection is shown by the pictogram
Halogen illumination For pictures bright and rich in contrast	Zoom magnification For stereomicroscopes	Battery operation Ready for battery operation. The battery type is specified for each device
LED illumination Cold, energy-saving and especially long-life illumination	Parallel optical system For stereomicroscopes, enables fatigue-proof working	Battery operation rechargeable Prepared for a rechargeable battery operation
Incident illumination For non-transparent objects	Integrated scale In the eyepiece	Mains adapter 230V/50Hz in standard version for EU. On request GB, AUS or USA version
Transmitting illumination For transparent objects	SD card For data storage	Power supply Integrated in microscope. 230V/50Hz standard EU. More standards e.g. GB, AUS or USA on request
Fluorescence illumination for stereomicroscopes	USB 2.0 digital camera For direct transmitting of the picture to a PC	Package shipment The time required to manufacture the product internally is shown in days in the pictogram
Fluorescence illumination for compound microscopes With 100 W mercury lamp and filter	USB 3.0 digital camera For direct transmitting of the picture to a PC	

Abbreviations

C-Mount Adapter for the connection of a camera to a trinocular microscope	LWD Long Working Distance	SWF Super Wide Field (Field number at least \varnothing 23 mm for 10 \times eyepiece)
FPS Frames per second	N.A. Numerical Aperture	W.D. Working Distance
H(S)WF High (Super) Wide Field (Eyepiece with high eye point for wearers of glasses)	SLR camera Single-Lens Reflex camera	WF Wide Field (Field number up to \varnothing 22 mm for 10 \times eyepiece)

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