KERN

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 (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 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)							
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TRINO	ABBE	HAL	PH	FL-HB0	FL-LED	INFINITY	230 V	1 DAY

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



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Model outfit		Model KERN					Order number
		OCM 161	OCM 165	OCM 166	OCM 167	OCM 168	
Eyepieces	HWF 10×/Ø 22 mm (adjustable)	11	11	11	11	11	OBB-A1491
30 mm)	HWF 10×/Ø 22 mm (reticule 0,1 mm) (adjustable)	0	0	0	0	0	OBB-A1523
nfinity	4×/0,11 W.D. 12,1 mm	0	0				OBB-A1493
nfinity Plan achromatic	10×/0,25 W.D. 8,3 mm	✓	✓				OBB-A1494
objectives or long working	20×/0,40 W.D. 7,2 mm	✓	✓				OBB-A1495
distance	40×/0,60 W.D. 3,4 mm	✓	✓				OBB-A1496
metinik.	4×/0,11 W.D. 12,1 mm			0	0	0	OBB-A1600
nfinity Plan achromatic	10×/0,25 W.D. 10,3 mm			✓	✓	✓	OBB-A1601
Fluor objectives or long working	20×/0,40 W.D. 5,8 mm			✓	✓	✓	OBB-A1602
distance	40×/0,60 W.D. 5,1 mm			✓	✓	✓	OBB-A1603
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 Travel128×80 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	*	1	•	•	*	
	Drop specimen holder (Ø 110)	✓	✓	✓	✓	✓	OBB-A1503
	Specimen holder for 35 mm culture dish	0	0	0	0	0	OBB-A1505
	Specimen holder for 54 mm culture dish	✓	1	✓	✓	✓	OBB-A1506
	Specimen holder for 65 mm culture dish	0	0	0	0	0	OBB-A1507
Condenser	Abbe N.A. 0,3 (aperture diaphragm), LWD 72 mm	~	✓	✓	✓	~	
Illomination	30 W Halogen spare bulb (transmitted)	1	✓				OBB-A1372
llumination	5 W LED spare bulb (transmitted)				✓	✓	OBB-A1589
	Phase contrast slide 4x	0	0	0	0	0	OBB-A1608
	Phase contrast slide 10x	✓	✓	✓	✓	✓	OBB-A1609
	Phase contrast slide 20x/40x	✓	✓	✓	✓	✓	OBB-A1610
	Infinity PH-Plan objective 10×	0	0				OBB-A1497
	Infinity PH-Plan objective 20×	✓	✓				OBB-A1498
Phase contrast units	Infinity PH-Plan objective 40×	0	0				OBB-A1499
	Infinity PH-Plan Fluor objective 4×			0	0	0	OBB-A1604
	Infinity PH-Plan Fluor objective 10x			0	0	0	OBB-A1605
	Infinity PH-Plan Fluor objective 20x			✓	✓	✓	OBB-A1606
	Infinity PH-Plan Fluor objective 40x			0	0	0	OBB-A1607
	Centering eyepiece	0	0	0	0	0	OBB-A1544
	100 W HBO Epi Fluorescence unit, two-hole slide (B/G)		✓				
Fluorescence unit	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)					✓	
	Blue	✓	✓	✓	✓	✓	OBB-A1510
Colour filters for transmitted	Green	✓	✓	✓	✓	✓	OBB-A1511
llumination	Yellow	0	0	0	0	0	OBB-A1512
	Grey	0	0	0	0	0	OBB-A1513
C-Mount	0,5×	0	0	0	0	0	OBB-A1515
C-Mount	1×	0	0	0	0	0	OBB-A1514

KERN OPTICS CATALOGUE 2021

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



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 compesation

For measurements between 10 °C and 30 °C



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Abbe Condenser

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

For pictures bright and rich in contrast



Infinity system

Infinity corrected optical system



Protection against dust and water

splashes IPxx

The type of protection is shown by the pictogram



LED illumination

Halogen illumination

Cold, energy-saving and especially long-life illumination



Parallel optical system

Zoom magnification

For stereomicroscopes

BATT

Battery operation

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



Incident illumination For non-transparent objects



For stereomicroscopes, enables

fatigue-proof working



Battery operation rechargeable

Prepared for a rechargeable battery operation



Transmitting illumination

For transparent objects



SCALE

SD card

For data storage

Integrated scale

In the eyepiece



Mains adapter

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



Fluorescence illumination

For stereomicroscopes



USB 2.0 digital camera

For direct transmitting of the picture to a PC



Power supply

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



Fluorescence illumination for compound microscopes

With 100W mercury lamp and filter

USB 3.0

camera

USB 3.0 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

Abbreviations

Adapter for the connection of a C-Mount

camera to a trinocular microscope

LWD Long Working Distance SWF Super Wide Field (Field number at

least Ø 23 mm for 10× eyepiece)

FPS Frames per second

N.A. Numerical Aperture

Working Distance W.D.

H(S)WF

High (Super) Wide Field (Eyepiece with high eye point for wearers of glasses)

SLR Single-Lens Reflex camera WF

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

Your KERN specialist dealer:



Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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Please contact us if this literature doesn't answer all your questions.