# 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

STANDAR

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OCM 166

OCM 167

OCM 168

- 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

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Trinocular

Trinocular

Trinocular

- As standard, the OCM range is fitted with a trinocular eyepiece tube
- The mechanical stage including specimen holder (Ø 110 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

LWD10×/LWD20×/

LWD40×/LWD20×PH

#### 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
- Ouintuple 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

100 W Epi Fluorescence (UV/V/B/G)

5W-LED + 5W Epi Fluorescence (B/G)

5W-LED + 5W Epi Fluorescence (UV/V/B/G)

30 W Halogen +

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

IRINU ABBE MAL PH FERBU FELEU INFINIT 230 Y I DAT								
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)			

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HWF 10×/Ø 22 mm

HWF 10×/Ø 22 mm

HWF 10×/Ø 22 mm

Infinity Plan

Infinity Plan

Infinity Plan



# Inverted microscope KERN OCM-1

Model outfit	del outfit		Мо	odel KE	RN	Order number		
		OCM 161	OCM 165	OCM 166	OCM 167	OCM 168		
Eyepieces	HWF 10×/Ø 22 mm (adjustable)	<b>√√</b>	<b>√</b> √	<b>√</b> √	<b>√</b> √	<b>√</b> √	OBB-A1491	
(30 mm)	HWF 10×/Ø 22 mm (reticule 0,1 mm) (adjustable)	0	0	0	0	0	OBB-A1523	
	4×/0,11 W.D. 12,1 mm	0	0	0	0	0	OBB-A1600	
Infinity Plan achromatic	10×/0,25 W.D. 10,3 mm	~	1	1	✓	✓	OBB-A1601	
Fluor objectives for long working distance	20×/0,40 W.D. 5,8 mm	1	✓	1	✓	✓	OBB-A1602	
	40×/0,60 W.D. 5,1 mm	1	1	1	1	1	OBB-A1603	
Trinocular tube       • 45° inclined         • Interpupillary distance 48–76 mm         • Light distribution 100:0         • Diopter adjustment: Both-sided		*	*	*	~	~		
Mechanical stage	<ul> <li>Stage size W×D 210×241 mm</li> <li>Travel128×80 mm</li> <li>Coaxial coarse and fine focusing knobs</li> <li>The x/y control knobs can be fitted either left or right</li> <li>Suitable for attaching a 96-hole microtitre plate</li> </ul>	*	*	*	*	*		
C C	Drop specimen holder (Ø 110)	1	1	1	1	1	OBB-A1503	
	Specimen holder for 35 mm culture dish	0	0	0	0	0	OBB-A1507	
	Specimen holder for 54 mm culture dish	~	1	1	1	1	OBB-A1506	
	Specimen holder for 65 mm culture dish	0	0	0	0	0	OBB-A 1505	
Condenser	Abbe N.A. 0,3 (aperture diaphragm), LWD 72 mm	~	~	~	~	~		
	30 W Halogen spare bulb (transmitted)	1	1	1			OBB-A1372	
Illumination	5 W LED spare bulb (transmitted)				1	1	OBB-A1589	
	Phase contrast slide 4x	0	0	0	0	0	OBB-A1608	
	Phase contrast slide 10x	1	1	1	✓	✓	OBB-A1609	
	Phase contrast slide 20x/40x	1	1	1	✓	✓	OBB-A1610	
Phase contrast units	Infinity PH-Plan Fluor objective 4×	0	0	0	0	0	OBB-A1604	
	Infinity PH-Plan Fluor objective 10x	0	0	0	0	0	OBB-A1605	
	Infinity PH-Plan Fluor objective 20x	1	✓	1	✓	✓	OBB-A1606	
	Infinity PH-Plan Fluor objective 40x	0	0	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)					✓		
<b>Colour filters</b> for transmitted illumination	Blue	~	~	1	✓	✓	OBB-A1510	
	Green	1	~	1	✓	~	OBB-A1511	
	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	

O = Option

# **KERN OPTICS CATALOGUE 2022**

#### 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 100W mercury lamp and filter



Fluorescence illumination C for compound microscopes FL-LED 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



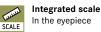
Zoom magnification For stereomicroscopes



Auto-focus For automatic control of the focus level



Parallel optical system For stereomicroscopes, enables fatigue-proof working



SD card For data storage



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



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



WLAN data interface For transmitting of the picture to a



mobile display device



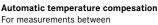
HDMI digital camera For direct transmitting of the picture to a display

SOFTWARE

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

device

AUTO ATC



For measurements between 10 °C and 30 °C



Protection against dust and water splashes IPxx: The type of protection is shown in the pictogram cf. DIN EN 60529:2000-09, IEC 60529:1989+A1:1999+A2:2013



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



Battery operation rechargeable Prepared for a rechargeable battery



Plug-in power supply

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



#### Integrated power supply unit

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

Package shipment

The time required to manufacture the 1 DAY product internally is shown in days in the pictogram.

## 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 Ø 23 mm for 10× 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 Ø 22 mm for 10× eyepiece)

### Your KERN specialist dealer:

