Inverted microscope KERN OCL-2

Trinocular head

Stage

Phase contrast slide

Coaxial pinion drive for x/y

Coarse and fine height adjustment

LAB LINE

The inverted Infinity microscope for high level of requirements and large working distance

Features

- The products in the OCL series are inverted microscopes and will impress you with their stability, ergonomic design and high-quality features. The inverted design means that a large working distance is guaranteed, for example for the analysis of cell cultures.
- A strong and continuously adjustable 30 W halogen transmitted illumination unit (Osram) ensures the optimum illumination of your samples.
- A special Abbe N.A. 0.3 condenser with aperture diaphragm and large working distance of 72 mm guarantees the very best working routine in the bright field and with phase-contrast applications.
- The extremely large stage is configured with two specimen holders as standard, one with a diameter of 110 mm and the other with a clip. The precise coarse and fine focusing knob (on both sides) allows optimal adjustment and focusing of your sample.
- Depending on the model, the OCL series is available for left-handed or right-handed operators.
- Further options such as, for example, a large selection of eyepieces, objectives further phase contrast units or a fixed stage can easily be integrated thanks to the modular construction system.
- A dust cover as well as user instructions are included with the delivery.
- A C-mount adapter is required to connect a camera. You can select this adapter from the following model outfit list.
- 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)

Technical data

- Infinity optical system
- Quintuple nosepiece
- Siedentopf 30° inclined
- Diopter adjustment: Both-sided
- Overall dimensions W×D×H 510×220×530 mm
- Net weight approx. 13 kg

STANDARD

OPTION

Model	Standard configuration					
KERN	Tube	Eyepiece	Objective quality	Objectives	Illumination	
OCL 251	Trinocular	HWF 10×/Ø 20 mm	Infinity Plan	10×/20×/40×/ 20×PH	6 V/30 W Halogen (transmitted)	
OCL 252	Trinocular	HWF 10×/Ø 20 mm	Infinity Plan		6 V/30 W Halogen (transmitted)	

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Inverted microscope KERN OCL-2

Model outfit		Model KERN		Order number	
		OCL 251	OCL 252		
Eyepieces (23,2 mm)	HWF 10×/⌀ 20 mm	✓✓	✓✓	OBB-A2403	
	WF 16×/⌀ 13 mm	○○	○○	OBB-A2406	
	HWF 10×/⌀ 18 mm (reticule 0,1 mm)	○	○	OBB-A2404	
	HWF 10×/⌀ 20 mm (reticule 0,1 mm)	○	○	OBB-A2410	
	HWF 10×/⌀ 22 mm (Only in combination with tube OBB-A2407/OBB-A2408)	○○	○○	OBB-A2409	
Infinity Plan achromatic objectives for long working distance	4×/0,13	○	○	OBB-A2413	
	10×/0,25	✓	✓	OBB-A2414	
	20×/0,40	✓	✓	OBB-A2415	
	40×/0,60	✓	✓	OBB-A2416	
	60×/0,70	○	○	OBB-A2417	
Binocular tube	· Siedentopf 30° inclined · Interpupillary distance 52 – 75 mm · Diopter adjustment: One-sided	○	○	OBB-A2401	
	· Siedentopf 30° inclined, for 22 mm field of view · Interpupillary distance 52 – 75 mm · Diopter adjustment: One-sided (Only in combination with tube OBB-A2409)	○	○	OBB-A2407	
Trinocular tube	· Siedentopf 30° inclined · Interpupillary distance 52 – 75 mm · Light distribution 80:20 · Diopter adjustment: One-sided	✓	✓		
	· Siedentopf 30° inclined, for 22 mm field of view · Interpupillary distance 52 – 75 mm · Light distribution 80:20 · Diopter adjustment: One-sided (Only in combination with tube OBB-A2409)	○	○	OBB-A2408	
Mechanical stage	· Stage size W×D 180×155 mm, · Travel 80×50 mm · Coaxial coarse and fine focusing knobs — Right handed v.	✓			
	· Stage size W×D 180×155 mm, · Travel 80×50 mm · Coaxial coarse and fine focusing knobs — Left handed v.		✓		
	Drop specimen holder (⌀ 110)	✓	✓	OBB-A2425	
	Specimen holder (Clip)	✓	✓	OBB-A2426	
Fixed stage	Stage size W×D 240×180 mm	○	○	OBB-A2424	
	Drop specimen holder (⌀ 110)	○	○	OBB-A2425	
Condenser	Abbe N.A. 0,3 (aperture diaphragm) LWD 72 mm	✓	✓		
Illumination	6 V/30 W Halogen spare bulb (transmitted)	✓	✓	OBB-A2440	
Phase contrast units	Phase contrast slide	✓	✓	OBB-A2432	
	Infinity PH-Plan objective 10×	○	○	OBB-A2418	
	Infinity PH-Plan objective 20×	✓	✓	OBB-A2419	
	Infinity PH-Plan objective 40×	○	○	OBB-A2420	
	Centering telescope	✓	✓	OBB-A2405	
C-Mount	0,5×	○	○	OBB-A2437	
	1×	○	○	OBB-A2438	
	0,25×	○	○	OBB-A2439	
Colour filters for transmitted illumination	Blue	✓	✓	OBB-A2434	
	Green	✓	✓	OBB-A2435	
	Yellow	✓	✓	OBB-A2436	

✓ = Included with delivery ○ = Option

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

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

Integrated 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 Ø 23 mm for 10x eyepiece)

W.D. Working Distance

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

Your KERN specialist dealer: