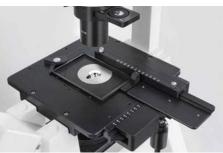
### Inverted microscope KERN OCO-2



# KERN







Camera connection and coaxial coarse and fine focusing knob

#### **PROFESSIONAL LINE**

# The modular, fully-equipped and extra stable inverted microscope with varied options

#### Features

- The KERN OCO series is part of the group of inverted microscopes and it stands out through its design which is ergonomic, robust and extremely stable. This design, with its large working distance, is particularly suitable for the analysis of cell cultures, for example.
- 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.
- As standard, the KERN OCO series is fitted with a trinocular eyepiece tube including a 0,5× C-mount adapter which is delivered with the product, and is fitted on the side.

- Depending on the model, there is a choice of a mechanical stage including a specimen holder (Ø 118 mm) or a fixed stage including a specimen holder (Ø 118 mm and Ø 54 mm for culture petri dishes).
- Further options such as, for example, eyepieces, objectives, specimen holders and further phase contrast units can easily be integrated thanks to the modular construction system.
- 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)

#### Technical data

- · Infinity optical system
- Quintuple nosepiece
- Siedentopf 45° inclined
- Diopter adjustment: Both-sided
- Overall dimensions W×D×H
   600×350×600 mm
- Net weight approx. 26,5 kg

STANDARD						OPTION		
		Ð	$\mathbf{\infty}$			<b>3</b> YEARS	Ø	LUUL
TRINO	ABBE	HAL	INFINITY	230 V	1 DAY	WARRANTY	PH	SCALE

Model	Standard configuration					
	Tube	Evepiece	Objective quality	Objectives	Illumination	
KERN				-		
OCO 255	Trinocular	HWF 10×/Ø 20 mm	Infinity Plan	10×/20×/40×/	6 V/30 W Halogen (transmitted)	
OCO 256	Trinocular	HWF 10×/Ø 20 mm	Infinity Plan	20×PH	6 V/30 W Halogen (transmitted)	

## Inverted microscope KERN OCO-2



Model outfit		Mode	I KERN	Order number	
		OCO 255	OCO 255 OCO 256		
	HWF 10×/Ø 20 mm		44	OBB-A2503	
Eyepieces (23,2 mm)	WF 16×/Ø 13 mm	00	00	OBB-A2507	
	HWF 10×/Ø 20 mm (reticule 0,1 mm)	0	0	OBB-A2410	
	HWF 10×/Ø 22 mm	00	00	OBB-A2409	
Infinity	4×/0,13	0	0	OBB-A2413	
	10×/0,25	✓	✓	OBB-A2414	
Plan achromatic objectives	20×/0,40	✓	×	OBB-A2415	
for long working distance	40×/0,60	✓	✓	OBB-A2416	
	60×/0,70	0	0	OBB-A2417	
Binocular tube	<ul> <li>Siedentopf 45° inclined</li> <li>Interpupillary distance 52 – 75 mm</li> <li>Diopter adjustment: One-sided</li> </ul>	~	~		
	<ul> <li>Siedentopf 45° inclined</li> <li>Interpupillary distance 48 - 75 mm</li> <li>Diopter adjustment: One-sided</li> </ul>	0	0	OBB-A2502	
Mechanical stage	<ul> <li>Stage size W×D 350×208 mm</li> <li>Travel 50×50 mm</li> <li>Coaxial coarse and fine focusing knobs</li> </ul>		~		
	Drop specimen holder (Ø 118)		✓	OBB-A2520	
	Stage size W×D 240×260 mm     Travel 135×85 mm	*			
	Drop specimen holder (Ø 118)	✓		OBB-A2520	
	Specimen holder for 96-hole microtitre plate	0		OBB-A2521	
Fixed stage	Specimen holder for 30 mm culture dish	0		OBB-A2562	
	Specimen holder for 54 mm culture dish	✓		OBB-A2522	
	Specimen holder for 60 mm culture dish	0		OBB-A2560	
	Specimen holder for 65 mm culture dish	0		OBB-A2561	
Condenser	Abbe N.A. 0,3 (aperture diaphragm) LWD 72 mm	*	~		
Illumination	6 V/30 W Halogen spare bulb (transmitted)	✓	*	OBB-A2440	
	Phase contrast slide	✓	✓	OBB-A2432	
Phase contrast units	Infinity PH-Plan objective 10×	0	0	OBB-A2418	
	Infinity PH-Plan objective 20×	✓	✓	OBB-A2419	
	Infinity PH-Plan objective 40×	0	0	OBB-A2420	
	Centering telescope	✓	✓	OBB-A2506	
C Marint	0,5×	✓	✓	OBB-A2531	
C-Mount	0,25×	0	0	OBB-A2532	
Colour filters	Blue	✓	✓	OBB-A2434	
for transmitted	Green	✓	✓	OBB-A2435	
illumination	Yellow	✓	1	OBB-A2436	

 $\checkmark$  = Included with delivery

### **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



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HAL

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

#### 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)



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



Phase contrast unit For a higher contrast

Darkfield condenser/unit

For a higher contrast due to indirect





Polarising unit To polarise the light

Infinity system

illumination





Zoom magnification For stereomicroscopes



Parallel optical system For stereomicroscopes, enables fatigue-proof working

Infinity corrected optical system



Integrated scale In the eyepiece

HDMI digital camera

SLR Kamera Single-Lens Reflex camera

display device



USB 2.0

......

HDMI

LWD

N.A.

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

For direct transmitting of the picture to a



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



SD card For data storage

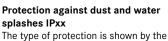


PC software To transfer the measurements from the device to a PC.



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





pictogram. **Battery operation** 



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



Battery operation rechargable Prepared for a rechargable battery



Mains adapter 230V/50Hz in standard version for EU.



#### Power supply

pictogram.

operation

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

On request GB, AUS or USA version.

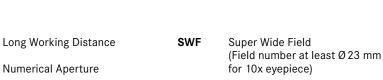


#### Package shipment The time required to manufacture the

product internally is shown in days in the pictogram. Warrantv

The warranty period is shown in the

**3**YEARS WARRANTY



WF

W.D. Working Distance	e
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Wide Field (Field number up to Ø22 mm for 10x eyepiece)

Your KERN specialist dealer:

