# Stereomicroscope KERN OSE-4





With white stage plate



KERN

With black stage plate

## EDUCATIONAL LINE

# The small robust model for school, training establishment or workshops

#### Features

STANDARD

- The KERN OSE-4 is an extremely robust, stable stereo microscope which is easy to use, it is ideal for all conventional applications in schools, workshops and training companies.
- Depending on the model, optional LED reflected illumination as well as transmitted and reflected illumination ensure the very best illumination of your sample.
- Despite its low price it has very good optical characteristics, which enable you to have sharp images over a large field of view.
- A turnable objective with predefined magnifications is available to make your working procedures quicker and more efficient.

- The eyepieces are fixed in the eyepiece tube, to stop them getting damaged or lost.
- A special feature of this adaptable and yet robust microscope series is the stable mechanism of the microscope stand which can be adjusted precisely. It will also impress you with its functionality and ergonomic design.
- A large selection of eyepieces as well as various additional external illumination units are available as accessories.
- A protective dust cover, eye cups, as well as multi-lingual user instructions are included in the scope of delivery.
- Please find detailed information in the following charts.

#### Scope of application

 Training, in vitro fertilisation, detection of parasites, zoology and botany, tissue preparation, section, quality control

#### Applications/Samples

• Samples with focus on three-dimensional impression (depth, thickness), e.g. insects, seeds, circuit boards, components

#### Technical data

- Optical system: Greenough optics
- Tube  $45^\circ$  inclined
- Interpupillary distance: 55 75 mm
- Diopter adjustment: One-sided
- Overall dimensions W×D×H
  230×130×330 mm
- Net weight approx. 2 kg

STANDARD						
00	Ð	Ö	Q			2 <sub>YEARS</sub>
BINO	LED	IL	TL	230 V	1 DAY	WARRANTY

Model	Standard configuration							
	Tube	be Eyepiece Field of view Objective Stand Illumination						
KERN			mm					
OSE 410	Binocular	WF 10×/Ø 20 mm	Ø 20	1×/3×	Pillar style	-		
OSE 411	Binocular	WF 10×/Ø 20 mm	Ø 20	2×/4×	Pillar style	-		
OSE 413	Binocular	WF 10×/Ø 20 mm	Ø 20	1×/3×	Pillar style	0,21 W LED (incident)		
OSE 414	Binocular	WF 10×/Ø 20 mm	Ø 20	2×/4×	Pillar style	0,21 W LED (incident)		
OSE 416	Binocular	WF 10×/Ø 20 mm	Ø 20	1×/3×	Pillar style	0,21 W LED (incident); 0,21 W LED (transmitted)		
OSE 417	Binocular	WF 10×/Ø 20 mm	Ø 20	2×/4×	Pillar style	0,21 W LED (incident); 0,21 W LED (transmitted)		

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Eyepiece	Specifications - Objectives								
	Magnification	1×	2×	3×	4×				
WF 5×	Total magnification	5×	10×	15×	20×				
WF 5^	Field of view mm	Ø 20	Ø 10	Ø 6,7	Ø 5				
WF 10×	Total magnification	10×	20×	30×	40×				
WF 10^	Field of view mm	Ø 20	ø 10	Ø 6,7	Ø 5				
WF 15×	Total magnification	15×	30×	45×	60×				
WF 15^	Field of view mm	Ø 15	Ø 7,5	Ø 5	Ø 3,7				
WF 20×	Total magnification	20×	40×	60×	80×				
	Field of view mm	ø 10	Ø 6,5	ø 4,3	ø 3,2				
Working distance		57 mm	57 mm	57 mm	57 mm				

Model outfit				Mode	KERN	Order number			
		OSE 410	OSE 411	OSE 413	OSE 414	OSE 416	OSE 417		
	WF 5×/Ø 16,2 mm	00	00	00	00	00	00	OZB-A4101	
Eyepieces	WF 10×/Ø 20 mm	<b>~</b>	~~	~~	<b>~</b>	<b>~</b>	<b>11</b>	OZB-A4102	
(30,5 mm)	WF 15×/Ø 15 mm	00	00	00	00	00	00	OZB-A4103	
	WF 20×/Ø 10 mm	00	00	00	00	00	00	OZB-A4104	
Stand	Pillar style, without illumination	1	✓						
	Pillar style, with 0,21 W LED illumination (incident)			~	~				
	Pillar style, with 0,21 W LED illumination (transmission + incident)					~	~		
Stage plate	Black-white / Ø 59,5 mm	~	1	1	~			OZB-A4816	
	Frosted glass/Ø 95 mm					✓	1	OZB-A4805	
	Black-white / Ø 95 mm					✓	~	OZB-A4806	
External illumination	Please find the information about external illumination units in the catalogue from page 81 and on our website www.kern-sohn.com								

 $\checkmark$  = Included with delivery

O = 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



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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

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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

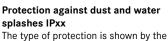


PC software To transfer the measurements from the device to a PC.



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.

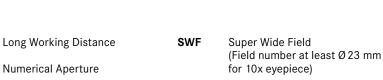


### Package shipment The time required to manufacture the

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	е
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Wide Field (Field number up to Ø22 mm for 10x eyepiece)

Your KERN specialist dealer:

