### Stereomicroscope KERN OSE-4







With white stage plate



#### With black stage plate

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

#### Features

- The KERN OSE-4 is a very robust, stable and easy to use stereo microscope.
- This model is optimally suited to schools, workshops and training establishments.
- It displays extremely good optical characteristics for its class, allowing clear images over its broad field of view.
- The model-dependent LED illumination reliably ensures good illumination at all times.
- The multitude of objective combinations and eyepieces are all you can wish for.
- The eyepieces are fixed in the tube to protect them against loss or damage.
- One of the central features of this variable and simultaneously robust series of microscopes is the stable and precisely adjustable mechanism. This is underlined by the functional and ergonomic design.

#### Technical data

- Optical system: Greenough
- Tube: 45° inclined
- Interpupillary distance: 55 75 mm
- Diopter adjustment (one-sided)
- Packing dimensions
- WxDxH 295x162x345 mm

#### OSE 410 / OSE 411

• Net weight approx. 1,75 kg

#### OSE 413 / OSE 414 / OSE 416 / OSE 417

Net weight approx. 2,25 kg

Please find detailed information in the following charts.

STANDARD							
Q	00	Ð	ð	Q			2 <sub>YEARS</sub>
360°	BINO	LED	IL	TL	230 V	1 DAY	WARRANTY

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

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

Model outfit		Model KERN						Order number
		OSE 410	OSE 411	OSE 413	OSE 414	OSE 416	OSE 417	
	WF 5x / Ø 16,2 mm	00	00	00	00	00	00	OZB-A4101
Eyepieces	WF 10x / Ø 20 mm	••	••	••	••	••	••	OZB-A4102
	WF 15x / Ø 15 mm	00	00	00	00	00	00	OZB-A4103
	WF 20x / Ø 10 mm	00	00	00	00	00	00	OZB-A4104
Stands	Pillar style, without illumination	•	•					
	Pillar style, with 0,21W LED illumination (incident)			•	•			
	Pillar style, with 0,21W LED illumination (transmission + incident)					•	•	
Stage plate	Black-white / Ø 59,5 mm	•	•	•	•			OZB-A4816
	Frosted glass / Ø 95 mm					•	•	OZB-A4805
	Black-white / Ø 95 mm					•	•	OZB-A4806
External illumination	Please find the information about external illumination units in	the ca	italogu	e from	page	58 and	on the	internet

Standard configuration

**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



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ABBE

the additional option for the connection of a camera Abbe Condenser With high numerical aperture for the

For the inspection with both eyes and



Halogen illumination For pictures bright and rich in contrast

concentration and the focusing of light



LED illumination Cold, energy saving and especially long-life illumination



Incident illumination For non-transparent objects



Transmitting illumination For transparent objects



**Fluorescence illumination** 





Fluorescence illumination for compound microscopes With 100 W mercury lamp and filter

Fluorescence illumination

for compound microscopes



With 3W LED illumination and filter



Phase contrast unit For a higher contrast



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



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.



**Rechargeable battery pack** Rechargeable set.



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



Warranty

the pictogram.

The warranty period is shown in the pictogram.



### Abbreviations

C-Mount	Adapter for the connection of a camera to a trinocular microscope
H(S)WF	High (Super) Wide Field (Eyepiece with high eye point for wearers of glasses)
LWD	Long Working Distance

Your KERN specialist dealer:

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

