

Stereomicroscope KERN OSE-41





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 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
- · 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 model outfit list

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° inclined
- Interpupillary distance 55 75 mm
- · Diopter adjustment: One-sided
- · Overall dimensions W×D×H 230×130×330 mm
- Net weight approx. 2 kg



Model	Standard configuration						
	Tube	Eyepiece	Field of view	Objective	Stand	Illumination	
KERN			mm				
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×			
ME Ev	Total magnification	5×	10×	15×	20×			
WF 5×	Field of view mm	ø 20	ø 10	Ø 6,7	Ø 5			
WE 10:	Total magnification	10×	20×	30×	40×			
WF 10×	Field of view mm	ø 20	Ø 10	Ø 6,7	Ø 5			
WE 45.	Total magnification	15×	30×	45×	60×			
WF 15×	Field of view mm	Ø 15	Ø 7,5	Ø 5	Ø 3,7			
WE 20.	Total magnification	20×	40×	60×	80×			
WF 20×	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 416	OSE 417			
	WF 5×/ø 16,2 mm	00	00	OZB-A4101		
Eyepieces	WF 10×/ø 20 mm	44	44	OZB-A4102		
(30,5 mm)	WF 15×/ø 15 mm	00	00	OZB-A4103		
	WF 20×/ø 10 mm	00	00	OZB-A4104		
Stand	Pillar style, with 0,21 W LED illumination (transmission + incident)	✓	✓			
Ctara mista	Frosted glass/Ø 95 mm	✓	✓	OZB-A4805		
Stage plate	Black-white/Ø 95 mm	✓	✓	OZB-A4806		
External illumination	Please find the information about external illumination units in the catalogue on page 82 and on the internet					

✓ = Included with delivery

O = Option

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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



FPS

H(S)WF

Fluorescence illumination

for compound microscopes USB 3.0 With 100W mercury lamp and filter



LWD

N.A.

SCALE

USB 2.0 digital camera

Fluorescence illumination

Phase contrast unit

For a higher contrast

illumination

Polarising unit

Infinity system

Zoom magnification

For stereomicroscopes

Parallel optical system

fatigue-proof working

Integrated scale

In the eyepiece

For data storage

SD card

For stereomicroscopes, enables

To polarise the light

Darkfield condenser/unit

For a higher contrast due to indirect

Infinity corrected optical system

0

PH

 ∞

INFINITY

for compound microscopes

With 3 W LED illumination and filter

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

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 device



PC software

To transfer the measurements from the device to a PC.



Automatic temperature compesation

For measurements between 10 °C and 30 °C

ΙP

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.



SWF

Package shipment

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

Abbreviations

Adapter for the connection of a C-Mount

camera to a trinocular microscope

Frames per second

High (Super) Wide Field (Eyepiece with high eye point for wearers of glasses)

SLR

Long Working Distance

Numerical Aperture

Single-Lens Reflex camera

Working Distance W.D.

WF Wide Field (Field number up to

Ø 22 mm for 10× eyepiece)

Super Wide Field (Field number at

least Ø 23 mm for 10× eyepiece)

Your KERN specialist dealer: