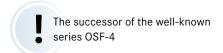


Stereomicroscope KERN OSE-42





Side view



EDUCATIONAL LINE

Stereo microscope with robust, ergonomic design, ideal for workshops, schools and training

Features

- With its integrated handle as well as its stable arm curved stand, the KERN OSE OSE-42 has been specially developed for schools and workshops
- The incident and transmitted illumination unit included as standard can be optionally enabled for the very best illumination of your sample. Mobile use of the OSE 422 is also no problem through the use of rechargeable batteries
- Despite its low price it has very good optical characteristics, which enable you to have sharp images over a large field of view
- An 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

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
- · Brightness adjustable
- \bullet Tube 45° inclined
- Interpupillary distance 55 75 mm
- Diopter adjustment: Both-sided
- Overall dimensions W×D×H 200×180×300 mm
- Net weight approx. 2 kg

STANDARD



Model	Standard configuration							
	Tube	Eyepiece	Field of view	Objective	Stand	Illumination		
KERN			mm					
OSE 421	Binocular	WF 10×/Ø 20 mm	Ø 20	2×/4×	Arm curved	1 W LED (incident); 1 W LED (transmitted)		
OSE 422	Binocular	WF 10×/Ø 20 mm	Ø 20	2×/4×	Arm curved	1 W LED (incident); 1 W LED (transmitted) (Rechargeable batteries included)		

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Stereomicroscope KERN OSE-42

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

Model outfit		Mode	I KERN	Order number		
		OSF 421	OSF 422			
	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	Arm curved, with 1 W LED illumination (transmitted + incident)	✓	✓			
01	Frosted glass/Ø 59,5 mm	✓	✓	OZB-A4815		
Stage plate	Black-white/Ø 59,5 mm	✓	✓	OZB-A4816		
External illumination	Please find the information about external illumination units in the catalogue on page 88 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

Fluorescence illumination

for compound microscopes

With 100W 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



SD card For data storage



USB 2.0 digital camera



For direct transmitting of the picture to a PC



LWD

USB 3.0 digital camera

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



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 rechargeable

Prepared for a rechargeable battery operation



Mains adapter

230V/50Hz in standard version for EU. On request GB, AUS or USA version



Power supply

Integrated in microscope. 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

Abbreviations

Adapter for the connection of a C-Mount

Frames per second

camera to a trinocular microscope

Long Working Distance

SWF Super Wide Field (Field number at

least Ø 23 mm for 10× eyepiece)

Working Distance N.A. Numerical Aperture W.D.

WF H(S)WF High (Super) Wide Field (Eyepiece with SLR Single-Lens Reflex camera high eye point for wearers of glasses) camera

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

Your KERN specialist dealer: