KERN OPTICS CATALOGUE 2019



Stereomicroscope KERN OSE-42





OSE 421/422

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
- Tube 45° inclined
- Interpupillary distance 55 75 mm
- Diopter adjustment: Both-sided
- Overall dimensions W×D×H 230×130×330 mm
- Net weight approx. 2 kg

STANDARD)					
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BINO	LED	IL	TL	RECHARGE	230 V	1 DAY

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×	mechanisch	1 W LED (incident); 1 W LED (transmitted)	
OSE 422	Binocular	WF 10×/ø 20 mm	Ø 20	2×/4×	mechanisch	1 W LED (incident); 1 W LED (transmitted) (Rechargeable batteries included)	

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Eyepiece			
	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	el 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)	~	×	
0	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 p	page 82 and on the	internet

 \checkmark = Included with delivery

O = Option

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360° rotatable Q microscope head 360°



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



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



Fluorescence illumination C for compound microscopes FL-LED 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

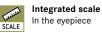


PARALLEL

Zoom magnification For stereomicroscopes



Parallel optical system For stereomicroscopes, enables fatigue-proof working



SD card For data storage



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

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



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230 V

Package shipment

Power supply

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

Integrated in balance. 230V/50Hz

standard EU. More standards e.g.

GB, AUS or USA on request.

Abbreviations

C-Mount	Adapter for the connection of a camera to a trinocular microscope	LWD	Long Working Distance	SWF	Super Wide Field (Field number at least Ø23 mm for 10× eyepiece)
FPS	Frames per second	N.A.	Numerical Aperture	W.D.	Working Distance
H(S)WF	High (Super) Wide Field (Eyepiece with high eye point for wearers of glasses)	SLR camera	Single-Lens Reflex camera	WF	Wide Field (Field number up to Ø 22 mm for 10× eyepiece)

Your KERN specialist dealer:





WLAN data interface For transmitting of the picture to a mobile display device

HDMI

device

HDMI digital camera For direct transmitting of the picture to a display

1
SOFTWARE

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

AUTO ATC

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.

..... BATT



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



Battery operation rechargable Prepared for a rechargable battery operation







Pricing on any accessories shown can be found by keying the part number into the search box on our website. The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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Please contact us if this literature doesn't answer all your questions.