

Stereo zoom microscope KERN OZL-44



LAB LINE

The affordable and flexible stereo zoom microscope for laboratories, inspection authorities and quality controls

Features

- The products in the KERN OZL-44 series are stereo zoom microscopes, which will impress you with their easy handling, flexibility as well as their stability and economical price
- The LED reflected and transmitted illumination included as standard guarantees the very best illumination of your sample
- As well as excellent optical characteristics and their large working surface, these models offer the highest level of comfort in this class – ideal for training companies, workshops as well as assembly and repair workstations, e.g. in the electronics industry
- The zoom objective gives you continuous magnification of 7,5× 36×
- The OZL-44 series is available as a binocular version. The eyepieces are fixed in the eyepiece tube, to stop them getting damaged or lost

- The pillar stand offers you the highest level of flexibility and the freedom to remove the microscope head and to integrate it into other modular systems, for example into a universal stand
- A large selection of eyepieces, external illumination units as well as auxiliary objectives 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

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

Applications/Samples

 Samples with focus on three-dimesnional impression, zoom with variable magnification (depth, thickness), e.g. insects, seeds, circuit boards, components

Technical data

- Optical system: Greenough optics
- Brightness adjustable (separate)
- Tube 45° inclined
- Magnification ratio: 4,8:1
- Interpupillary distance $55-75\ mm$
- Diopter adjustment: Both-sided
- Overall dimensions W×D×H 330×235×380 mm
- Net weight approx. 5 kg

STANDARD



М	odel	Standard configuration						
	Tube Eyepiece		Field of view	Objective	Stand	Illumination		
KE	ERN		mm Zoom					
OZ	ZL 445	Binocular	WF 10×/Ø 20 mm	Ø 26,7 – 5,6	0,75× - 3,6×	Pillar style	1 W LED (incident); 0,35 W LED (transmitted)	

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OZL 445	Specifications - Objectives							
Eyepiece	Magnification	Standard	Auxiliary objectives					
		1,0×	0,5×	0,75×	1,5×	2,0×		
WF 5×	Total magnification	3,75× - 18×	1,875× - 9×	2,81× - 13,5×	5,625× - 27×	7,5× - 36×		
WF 3^	Field of view mm	Ø 26 - 6	Ø 60 – 13	Ø 32-7	Ø 16 – 4	Ø 12,5 - 3		
NE 10:	Total magnification	7,5× - 36×	3,75× - 18×	5,625× - 27×	11,25× - 54×	15×-72×		
WF 10×	Field of view mm	Ø 26,7 - 5,6	Ø 53,3 – 11,1	Ø 35,5 – 7,4	Ø 17,8 – 3,7	Ø13,3-2,8		
ME 45	Total magnification	11,25× - 54×	5,625× – 27×	8,44× - 40,5×	16,875× – 81×	22,5× - 108×		
VF 15×	Field of view mm	Ø 19 – 4,5	Ø 43 – 9,5	Ø 24 – 5,5	Ø 12 – 3	Ø 9,5 – 2		
ME 00	Total magnification	15× - 72×	7,5×-36×	56,25× - 54×	22,5× - 108×	30× - 144×		
NF 20×	Field of view mm	Ø 12,5 - 3	Ø 28 – 6	Ø 16-3,5	Ø 8 – 2	Ø 6 – 1,5		
Working distant	ce	86 mm	178 mm	96 mm	42,5 mm	25,5 mm		
Maximum samp	ole height	100 mm	10 mm	60 mm	120 mm	135 mm		

Model outfit		Model KERN	Order number		
		OZL 445			
	WF 5×/ø 16,2 mm	00	OZB-A4101		
	WF 10×/ø 20 mm	√√	OZB-A4102		
Eyepieces (30,5 mm)	WF 15×/ø 15 mm	00	OZB-A4103		
(,,	WF 20×/Ø 10 mm	00	OZB-A4104		
	WF 10×/ø 20 mm (reticule 0,1 mm)	0	OZB-A4151		
	0,5×	0	OZB-A4201		
	0,75×	0	OZB-A4202		
Auxiliary objectives	1,5×	0	OZB-A4204		
	2,0×	0	OZB-A4205		
	Soldering protection lens	0	OZB-A4251		
Stand	Pillar style, with LED illumination (0,35 W transmitted + 1 W incident)	✓			
Ole and all a	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 nage 83 and on the internet				

✓ = Included with delivery

O = Option



Pictograms



360° rotatable





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



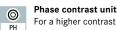
Fluorescence illumination

for compound microscopes USB 2.0 With 100W mercury lamp and filter



Fluorescence illumination for compound microscopes

With 3 W LED illumination and filter



Phase contrast unit



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

Auto-focus

For automatic control of the focus level



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



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 in the pictogram cf. DIN EN 60529:2000-09, IEC 60529:1989+A1:1999+A2:2013



Battery operation

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



Battery operation rechargeable

Prepared for a rechargeable battery operation



Plug-in power supply

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



Integrated power supply unit

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

camera to a trinocular microscope

LWD Long Working Distance SWF Super Wide Field (Field number at

least Ø 23 mm for 10× eyepiece)

FPS Frames per second N.A. Numerical Aperture

Working Distance W.D.

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

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

Your KERN specialist dealer:



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Use the above details to contact us if this literature doesn't answer all your questions.

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.





