KERN

Stereo Zoom Microscope KERN OZS-5





Professional Line

Professional stereo zoom microscope with parallel optics for excellent images, depth of field, contrast and fatigue-free working

Features

- The KERN OZS series is a special, high-quality stereo zoom microscope with parallel optics for demanding analyses
- The KERN OZS series is available as a strong, continuously adjustable 3 W LED reflected and transmitted light variant for the very best illumination of your sample
- The parallel optical system is a high-quality optical system and provides excellent images with the best contrast, colour and depth of field with fatigue-free working. Refocusing is also only necessary in very few cases when magnifying the zoom
- The continuously adjustable magnification range from 8 to 50 times magnification means that you can work quickly and effectively
- As standard this microscope offers you continuous total magnification of $8\times$ $80\times$

- The pillar stand is particularly flexible due to its variable and sturdy adjustment mechanism and therefore enables ergonomic working procedures
- A large selection of eyepieces, (universal) stands, a darkfield kit, external illumination units as well as auxiliary objectives and more are available as accessories
- A protective dust cover, eye cups, as well as multi-lingual user instructions are included in the scope of delivery
- A C-mount adapter is required to connect a camera to the trinocular version. You can select this adapter from the following model outfit list
- 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, electronics and semiconductor industry, assembly and repair

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: Parallel optics
- Brightness adjustable (separate)
- Tube 45° inclined
- Magnification ratio: 10:1
- Light distribution 100:0
- Interpupillary distance 52 76 mm
- Diopter adjustment: Both-sided
- Overall dimensions W×D×H 305×300×540 mm
- Net weight approx. 5,5 kg

STANDARD)								
Ø		Ð	Ö	$\overline{\Omega}$	Q	Ш	-	.	
360°	TRINO	LED	IL	TL	ZOOM	PARALLEL	230 V	1 DAY	

Model		Standard configuration						
	Tube	Eyepiece	Field of view	Objective	Stand	Illumination		
KERN			mm	Zoom				
OZS 574	Trinocular	HWF 10×/Ø 22 mm	Ø 27.5 – 2.75	0.8× - 8×	Pillar style	3 W LED (incident): 3 W LED (transmitted)		



MICROSCOPES & REFRACTOMETERS 2024





Stereo Zoom Microscope KERN OZS-5

Eyepiece	Specifications - Objectives						
	Magnification	Standard Plan 1,0×	Achr. objective 0,5×	Achr. objective 0,7×	Achr. objective 1,5× (Auxiliary)		
HWF 10×	Total magnification	8×-80×	4× - 40×	5,6× - 56×	12× - 120×		
	Field of view mm	Ø 27,5 – 2,75	Ø 55 – 5,5	Ø 39,3 – 3,93	Ø 18,33 – 1,83		
SWF 15×	Total magnification	12× - 120×	6×-60×	8,4× - 84×	18× – 180×		
	Field of view mm	Ø 21,25 - 2,13	Ø 42,5 - 4,25	Ø 30,36 - 3,04	Ø 14,17 – 1,42		
CME 20	Total magnification	16× - 160×	8×-80×	11,2× - 112×	24× - 240×		
SWF 20×	Field of view mm	Ø 17,5 – 1,75	Ø 35 – 3,5	Ø 25 – 2,5	Ø 11,67 – 1,17		
SWF 30×	Total magnification	24× - 240×	12× – 120×	16,8× - 168×	36×-360×		
	Field of view mm	ø 11,25 – 1,13	Ø 22,5 – 2,25	Ø 16,1 – 1,61	Ø 7,5 - 0,75		
Working dis	stance	91 mm	186 mm	135 mm	40 mm		
Maximum sample height		100 mm	30 mm	80 mm	125 mm		

	Model KERN	Order number	
	OZS 574		
HWF 10×/Ø 22 mm	√ √	OZB-A5502	
SWF 15×/ø 17 mm	00	OZB-A5504	
SWF 20×/Ø 14 mm	00	OZB-A5505	
SWF 30×/ø 9 mm	00	OZB-A5506	
HWF 10×/Ø 22 mm (reticule 0,1 mm)	0	OZB-A5511	
SWF 15×/ø 17 mm (reticule 0,05 mm)	0	OZB-A5513	
SWF 20×/ø 14 mm (reticule 0,05 mm)	0	OZB-A5514	
1,0×	✓	OZB-A5603	
0,5×	0	OZB-A5601	
0,7×	0	OZB-A5602	
1,5× Only in combination with OZB-A5603	0	OZB-A5604	
Division 100:0	✓	OZB-A5401	
Division 50:50	0	OZB-A5402	
0,3× (focus adjustable)	0	OZB-A5701	
0,5× (focus adjustable)	0	OZB-A5702	
1,0× (focus adjustable)	0	OZB-A5703	
1,0× (with micrometer) only in combination with OZB-A5703	0	OZB-A5704	
For SLR cameras (Nikon)	0	OZB-A5706	
For SLR cameras (Olympus)	0	OZB-A5707	
For SLR cameras (Canon)	0	OZB-A5708	
Darkfield unit	0	OZB-A4601	
Object clamp	0	OBB-A6205	
Pillar style, with 3 W LED illumination (transmitted + incident)	✓		
Frosted glass/Ø 94,5 mm	✓	OZB-A5192	
Black-white/Ø 94,5 mm	✓	OZB-A5191	
Clear glass/ø 94,5 mm	0	OZB-A5190	
Stage size W×D 188×160 mm, Travel 76×65 mm, for incident and transmitted illumination	0	OZB-A5781	
Stage size W×D 180×175 mm, Travel 100×86 mm, for incident illumination only	0	OZB-A5782	
Stage size for inciden Stage size for inciden	W×D 188×160 mm, Travel 76×65 mm, t and transmitted illumination W×D 180×175 mm, Travel 100×86 mm, t illumination only	W×D 188×160 mm, Travel 76×65 mm, t and transmitted illumination W×D 180×175 mm, Travel 100×86 mm,	



MICROSCOPES & REFRACTOMETERS 2024

KERN Pictograms





360° rotatable microscope head



Monocular MicroscopeFor the inspection with one eve



Binocular MicroscopeFor 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 illuminationFor non-transparent objects



Transmitting illuminationFor transparent objects



Fluorescence illumination For stereomicroscopes



Fluorescence illumination for compound microscopes

With 100 W 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



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 interface For data transmission



USB 3.0 interface For data transmission



WIFI 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 measurementsfrom 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 of. 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.



Pallet shipment

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

Abbreviations

C-Mount Adapter for the connection of a

camera to a trinocular microscope

FPS Frames per second

H(S)WF High (Super) Wide Field (Eyepiece with high eye

point for wearers of glasses)

LWD Long Working Distance

N.A. Numerical Aperture

SLR camera Single-Lens Reflex camera

SWF Super Wide Field (Field number at least Ø 23 mm

for 10× eyepiece)

W.D. Working Distance

WF Wide Field (Field number up to Ø 22 mm

for 10× eyepiece)

