

Stereo zoom microscope KERN OZR-5



OZR 564/OZS 574  
With illumination



OZR 563/OZS 573  
Without illumination

**PROFESSIONAL LINE**

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

**Features**

- The KERN OZR/OZS series is a special, high-quality stereo zoom microscope with parallel optics for demanding analyses
- The KERN OZR/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 or as a variant without illumination
- 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 (OZR-5) or 80 times (OZS-5) magnification means that you can work quickly and effectively
- As standard, the models of the KERN OZR/OZS series are trinocular and are therefore equipped for connecting a camera for documentation purposes and for quality reports
- 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-dimensional 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 OZR-5: 6,25:1
- Magnification ratio OZS-5: 10:1
- Light distribution 50:50
- 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



OPTION



Model	Standard configuration					
	Tube	Eyepiece	Field of view mm	Objective Zoom	Stand	Illumination
<b>KERN</b>						
<b>OZR 563*</b>	Trinocular	HWF 10×/ø 22 mm	ø 27,5 - 4,4	0,8× - 5×	Pillar style	-
<b>OZR 564*</b>	Trinocular	HWF 10×/ø 22 mm	ø 27,5 - 4,4	0,8× - 5×	Pillar style	3 W LED (incident); 3 W LED (transmitted)
<b>OZS 573*</b>	Trinocular	HWF 10×/ø 22 mm	ø 27,5 - 2,75	0,8× - 8×	Pillar style	-
<b>OZS 574</b>	Trinocular	HWF 10×/ø 22 mm	ø 27,5 - 2,75	0,8× - 8×	Pillar style	3 W LED (incident); 3 W LED (transmitted)

\* ONLY WHILE STOCKS LAST

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Eyepiece	Specifications - Objectives								
	Magnification	Standard Plan 1,0×		Achr. objective 0,5×		Achr. objective 0,7×		Achr. objective 1,5× (Auxiliary)	
		OZR 563	OZS 573	OZR 563	OZS 573	OZR 563	OZS 573	OZR 563	OZS 573
HWF 10×	Total magnification	8× - 50×	8× - 80×	4× - 25×	4× - 40×	5,6× - 35×	5,6× - 56×	12× - 75×	12× - 120×
	Field of view mm	∅ 27,5 - 4,4	∅ 27,5 - 2,75	∅ 55 - 8,8	∅ 55 - 5,5	∅ 39,3 - 6,3	∅ 39,3 - 3,93	∅ 18,33 - 2,93	∅ 18,33 - 1,83
SWF 15×	Total magnification	12× - 75×	12× - 120×	6× - 37,5×	6× - 60×	8,4× - 5,5×	8,4× - 84×	18× - 112,5×	18× - 180×
	Field of view mm	∅ 21,25 - 3,4	∅ 21,25 - 2,13	∅ 42,5 - 6,8	∅ 42,5 - 4,25	∅ 30,36 - 4,86	∅ 30,36 - 3,04	∅ 14,17 - 2,27	∅ 14,17 - 1,42
SWF 20×	Total magnification	16× - 100×	16× - 160×	8× - 50×	8× - 80×	11,2× - 70×	11,2× - 112×	24× - 150×	24× - 240×
	Field of view mm	∅ 17,5 - 2,8	∅ 17,5 - 1,75	∅ 35 - 5,6	∅ 35 - 3,5	∅ 25 - 4	∅ 25 - 2,5	∅ 11,67 - 1,87	∅ 11,67 - 1,17
SWF 30×	Total magnification	24× - 150×	24× - 240×	12× - 75×	12× - 120×	16,8× - 105×	16,8× - 168×	36× - 225×	36× - 360×
	Field of view mm	∅ 11,25 - 1,8	∅ 11,25 - 1,13	∅ 22,5 - 3,6	∅ 22,5 - 2,25	∅ 16,1 - 2,57	∅ 16,1 - 1,61	∅ 7,5 - 1,2	∅ 7,5 - 0,75
<b>Working distance</b>		91 mm		186 mm		135 mm		40 mm	
<b>Maximum sample height</b>		100 mm		30 mm		80 mm		125 mm	

Model outfit		Model KERN				Order number	
		OZR 563	OZR 564	OZS 573	OZS 574		
Eyepieces (30,0 mm)	HWF 10×/∅ 22 mm	✓✓	✓✓	✓✓	✓✓	OZB-A5502	
	SWF 15×/∅ 17 mm	○○	○○	○○	○○	OZB-A5504	
	SWF 20×/∅ 14 mm	○○	○○	○○	○○	OZB-A5505	
	SWF 30×/∅ 9 mm	○○	○○	○○	○○	OZB-A5506	
	HWF 10×/∅ 22 mm (reticule 0,1 mm)	○	○	○	○	OZB-A5511	
	SWF 15×/∅ 17 mm (reticule 0,05 mm)	○	○	○	○	OZB-A5513	
	SWF 20×/∅ 14 mm (reticule 0,05 mm)	○	○	○	○	OZB-A5514	
<b>Plan achromatic objective</b>	1,0×	✓	✓	✓	✓	OZB-A5603	
<b>Achromatic objectives</b>	0,5×	○	○	○	○	OZB-A5601	
	0,7×	○	○	○	○	OZB-A5602	
	1,5× Only in combination with OZB-A5603	○	○	○	○	OZB-A5604	
<b>Trinocular beamsplitter</b>	Division 100:0	✓	✓	✓	✓	OZB-A5401	
	Division 50:50	○	○	○	○	OZB-A5402	
<b>C-Mount</b>	0,3× (focus adjustable)	○	○	○	○	OZB-A5701	
	0,5× (focus adjustable)	○	○	○	○	OZB-A5702	
	1,0× (focus adjustable)	○	○	○	○	OZB-A5703	
	1,0× (with micrometer) only in combination with OZB-A5703	○	○	○	○	OZB-A5704	
	for SLR cameras (Nikon)	○	○	○	○	OZB-A5706	
	for SLR cameras (Olympus)	○	○	○	○	OZB-A5707	
<b>Darkfield unit</b>	Darkfield unit		○		○	OZB-A4601	
	<b>Object clamp</b>	Object clamp	○	○	○	○	OB-B-A6205
<b>Stand</b>	Pillar style, without illumination	✓		✓			
	Pillar style, with 3 W LED illumination (transmitted + incident)		✓		✓		
<b>Stage plate</b>	Frosted glass/∅ 94,5 mm		✓		✓	OZB-A5192	
	Black-white/∅ 94,5 mm	✓	✓	✓	✓	OZB-A5191	
	Clear glass/∅ 94,5 mm		○		○	OZB-A5190	
<b>Mechanical stage</b> (Pre-assembling on request)	Stage size W×D 188×160 mm, Travel 76×65 mm, for incident and transmitted illumination	○	○	○	○	OZB-A5781	
	Stage size W×D 180×175 mm, Travel 100×86 mm, for incident illumination only	○	○	○	○	OZB-A5782	
<b>External illumination</b>	Please find the information about external illumination units in the catalogue on page 88 and on the internet						

✓ = Included with delivery

○ = Option

**Pictograms**

<b>360° rotatable microscope head</b>	<b>Fluorescence illumination for compound microscopes</b> With 3 W LED illumination and filter	<b>WLAN data interface</b> For transmitting of the picture to a mobile display device
<b>Monocular Microscope</b> For the inspection with one eye	<b>Phase contrast unit</b> For a higher contrast	<b>HDMI digital camera</b> For direct transmitting of the picture to a display device
<b>Binocular Microscope</b> For the inspection with both eyes	<b>Darkfield condenser/unit</b> For a higher contrast due to indirect illumination	<b>PC software</b> To transfer the measurements from the device to a PC
<b>Trinocular Microscope</b> For the inspection with both eyes and the additional option for the connection of a camera	<b>Polarising unit</b> To polarise the light	<b>Automatic temperature compensation</b> For measurements between 10 °C and 30 °C
<b>Abbe Condenser</b> With high numerical aperture for the concentration and the focusing of light	<b>Infinity system</b> Infinity corrected optical system	<b>Protection against dust and water splashes IPxx</b> The type of protection is shown by the pictogram
<b>Halogen illumination</b> For pictures bright and rich in contrast	<b>Zoom magnification</b> For stereomicroscopes	<b>Battery operation</b> Ready for battery operation. The battery type is specified for each device
<b>LED illumination</b> Cold, energy-saving and especially long-life illumination	<b>Parallel optical system</b> For stereomicroscopes, enables fatigue-proof working	<b>Battery operation rechargeable</b> Prepared for a rechargeable battery operation
<b>Incident illumination</b> For non-transparent objects	<b>Integrated scale</b> In the eyepiece	<b>Mains adapter</b> 230V/50Hz in standard version for EU. On request GB, AUS or USA version
<b>Transmitting illumination</b> For transparent objects	<b>SD card</b> For data storage	<b>Power supply</b> Integrated in microscope. 230V/50Hz standard EU. More standards e.g. GB, AUS or USA on request
<b>Fluorescence illumination for stereomicroscopes</b>	<b>USB 2.0 digital camera</b> For direct transmitting of the picture to a PC	<b>Package shipment</b> The time required to manufacture the product internally is shown in days in the pictogram
<b>Fluorescence illumination for compound microscopes</b> With 100 W mercury lamp and filter	<b>USB 3.0 digital camera</b> For direct transmitting of the picture to a PC	

**Abbreviations**

<b>C-Mount</b> Adapter for the connection of a camera to a trinocular microscope	<b>LWD</b> Long Working Distance	<b>SWF</b> Super Wide Field (Field number at least $\varnothing$ 23 mm for 10 $\times$ eyepiece)
<b>FPS</b> Frames per second	<b>N.A.</b> Numerical Aperture	<b>W.D.</b> Working Distance
<b>H(S)WF</b> High (Super) Wide Field (Eyepiece with high eye point for wearers of glasses)	<b>SLR camera</b> Single-Lens Reflex camera	<b>WF</b> Wide Field (Field number up to $\varnothing$ 22 mm for 10 $\times$ eyepiece)

**Your KERN specialist dealer:**