



OZR 564
With illumination



OZR 563
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 series is a special, high-quality stereo zoom microscope with parallel optics for demanding analyses
- The KERN OZR 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 magnification means that you can work quickly and effectively
- As standard, the models of the KERN OZR 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

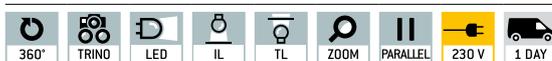
Applications/Samples

- 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: 6,25:1
- 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	
KERN							
OZR 563	Trinocular	HWF 10×/ø 22 mm	ø 27,5 – 4,4	0,8× – 5×	Pillar style	-	↓
OZR 564	Trinocular	HWF 10×/ø 22 mm	ø 27,5 – 4,4	0,8× – 5×	Pillar style	3 W LED (incident); 3 W LED (transmitted)	↓

ONLY WHILE STOCKS LAST

Price reduction

Eyepiece	Specifications - Objectives				
	Magnification	Standard Plan 1,0×	Achromatic objectives		
			0,5×	0,7×	1,5× (Auxiliary)
HWF 10×	Total magnification	8× - 50×	4× - 25×	5,6× - 35×	12× - 75×
	Field of view mm	∅ 27,5 - 4,4	∅ 55 - 8,8	∅ 39,3 - 6,3	∅ 18,33 - 2,93
SWF 15×	Total magnification	12× - 75×	6× - 37,5×	8,4× - 5,5×	18× - 112,5×
	Field of view mm	∅ 21,25 - 3,4	∅ 42,5 - 6,8	∅ 30,36 - 4,86	∅ 14,17 - 2,27
SWF 20×	Total magnification	16× - 100×	8× - 50×	11,2× - 70×	24× - 150×
	Field of view mm	∅ 17,5 - 2,8	∅ 35 - 5,6	∅ 25 - 4	∅ 11,67 - 1,87
SWF 30×	Total magnification	24× - 150×	12× - 75×	16,8× - 105×	36× - 225×
	Field of view mm	∅ 11,25 - 1,8	∅ 22,5 - 3,6	∅ 16,1 - 2,57	∅ 7,5 - 1,2
Working distance		91 mm	186 mm	135 mm	40 mm
Maximum sample height		100 mm	30 mm	80 mm	125 mm

Model outfit		Model KERN		Order number	
		OZR 563	OZR 564		
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	
Plan achromatic objective	1,0×	✓	✓	OZB-A5603	
Achromatic objectives	0,5×	○	○	OZB-A5601	
	0,7×	○	○	OZB-A5602	
	1,5× Only in combination with OZB-A5603	○	○	OZB-A5604	
Trinocular beamsplitter	Division 100:0	✓	✓	OZB-A5401	
	Division 50:50	○	○	OZB-A5402	
C-Mount	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	
	for SLR cameras (Canon)	○	○	OZB-A5708	
Darkfield unit	Darkfield unit		○	OZB-A4601	
Object clamp	Object clamp	○	○	OBB-A6205	
Stand	Pillar style, without illumination	✓			
	Pillar style, with 3 W LED illumination (transmitted + incident)		✓		
Stage plate	Frosted glass/∅ 94,5 mm		✓	OZB-A5192	
	Black-white/∅ 94,5 mm	✓	✓	OZB-A5191	
	Glass/∅ 94,5 mm		○	OZB-A5190	
Mechanical stage (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	
External illumination	Please find the information about external illumination units in the catalogue on page 83 and on our website www.kern-sohn.com				

✓ = Included with delivery

○ = Option

 360°	360° rotatable microscope head	 FL-LED	Fluorescence illumination for compound microscopes With 3 W LED illumination and filter	 WLAN	WLAN data interface: For transmitting of the picture to a mobile display device
 MONO	Monocular Microscope For the inspection with one eye	 PH	Phase contrast unit For a higher contrast	 HDMI	HDMI digital camera For direct transmitting of the picture to a display device
 BINO	Binocular Microscope For the inspection with both eyes	 DF	Darkfield condenser/unit For a higher contrast due to indirect illumination	 SOFTWARE	PC software To transfer the measurements from the device to a PC.
 TRINO	Trinocular Microscope For the inspection with both eyes and the additional option for the connection of a camera	 POLAR	Polarising unit To polarise the light	 AUTO ATC	Automatic temperature compensation For measurements between 10 °C and 30 °C
 ABBE	Abbe Condenser With high numerical aperture for the concentration and the focusing of light	 INFINITY	Infinity system Infinity corrected optical system	 IP	Protection against dust and water splashes IPxx The type of protection is shown by the pictogram.
 HAL	Halogen illumination For pictures bright and rich in contrast	 ZOOM	Zoom magnification For stereomicroscopes	 BATT	Battery operation Ready for battery operation. The battery type is specified for each device.
 LED	LED illumination Cold, energy saving and especially long-life illumination	 PARALLEL	Parallel optical system For stereomicroscopes, enables fatigue-proof working	 RECHARGE	Battery operation rechargeable Prepared for a rechargeable battery operation
 IL	Incident illumination For non-transparent objects	 SCALE	Integrated scale In the eyepiece	 230 V	Mains adapter 230V/50Hz in standard version for EU. On request GB, AUS or USA version.
 TL	Transmitting illumination For transparent objects	 SD	SD card For data storage	 230 V	Power supply Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, AUS or USA on request.
 FL	Fluorescence illumination For stereomicroscopes	 USB 2.0	USB 2.0 digital camera For direct transmitting of the picture to a PC	 1 DAY	Package shipment The time required to manufacture the product internally is shown in days in the pictogram.
 FL-HBO	Fluorescence illumination for compound microscopes With 100 W mercury lamp and filter	 USB 3.0	USB 3.0 digital camera For direct transmitting of the picture to a PC		

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 \varnothing 23 mm for 10 \times 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 Kamera Single-Lens Reflex camera	WF Wide Field (Field number up to \varnothing 22 mm for 10 \times eyepiece)

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