## Stereo zoom microscope KERN OZR-5







#### **PROFESSIONAL LINE**

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

#### Features

OTANDADD

- 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 charts.

#### 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: 6,25:1
- 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										
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	360°	TRINO	LED	IL	TL	ZOOM	PARALLEL	230 V	1 DAY WARRANTY	SCALE

M	lodel	Standard configuration							
		Tube	Eyepiece	Field of view	Objective	Stand	Illumination		
к	ERN			mm	Zoom				
0	ZR 563	Trinocular	HWF 10×/Ø 22 mm	Ø 27,5-4,4	0,8×-5×	Pillar style	-		
0	ZR 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)		

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

Model outfit	Mode	I KERN	Order number	
		OZR 563	OZR 564	
	HWF 10×/Ø 22 mm	44	44	OZB-A5502
	SWF 15×/Ø 17 mm	00	00	OZB-A5504
	SWF 20×/Ø 14 mm	00	00	OZB-A5505
Eyepieces (30,0 mm)	SWF 30×/Ø 9 mm	00	00	OZB-A5506
(30,0 mm)	HWF 10×/Ø 22 mm (reticule 0,1 mm)	0	0	OZB-A5511
	SWF 15×/Ø 17 mm (reticule 0,05 mm)	0	0	OZB-A5513
	SWF 20×/Ø 14 mm (reticule 0,05 mm)	0	0	OZB-A5514
Plan achromatic objective	1,0×	✓	*	OZB-A5603
	0,5×	0	0	OZB-A5601
Achromatic objectives	0,7×	0	0	OZB-A5602
	1,5× Only in combination with OZB-A5603	0	0	OZB-A5604
Trinocular	Division 100:0	✓	✓	OZB-A5401
beamsplitter	Division 50:50	0	0	OZB-A5402
	0,3× (focus adjustable)	0	0	OZB-A5701
	0,5× (focus adjustable)	0	0	OZB-A5702
	1,0× (focus adjustable)	0	0	OZB-A5703
C-Mount	1,0× (with micrometer) only in combination with OZB-A5703	0	0	OZB-A5704
	for SLR cameras (Nikon)	0	0	OZB-A5706
	for SLR cameras (Olympus)	0	0	OZB-A5707
	for SLR cameras (Canon)	0	0	OZB-A5708
Darkfield unit	Darkfield unit	0	0	OZB-A4601
Object clamp	Object clamp	0	0	OBB-A6205
	Pillar style, without illumination	✓		
Stand	Pillar style, with 3 W LED illumination (transmitted + incident)		*	
	Frosted glass/Ø 94,5 mm		✓	OZB-A5192
Stage plate	Black-white/Ø 94,5 mm	✓	✓	OZB-A5191
	Glass/Ø 94,5 mm		0	OZB-A5190
<b>Mechanical stage</b> (Pre-assembling on	Stage size W×D 188×160 mm, Travel 76×65 mm, for incident and transmitted illumination	0	0	OZB-A5781
request)	Stage size W×D 180×175 mm, Travel 100×86 mm, for incident illumination only	0	0	OZB-A5782
External illumination	Please find the information about external illumination units in	the catalogue from	page 81 and on o	ur website www.kern-sohn.com

O = Option

illumination Please find the information about external illumination units in the catalogue from page 81 and on our website www.kern-sohn.com

## **KERN Pictograms:**



360° rotatable microscope head



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



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HAL

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

### 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)



Fluorescence illumination for compound microscopes With 3W LED illumination and filter



Phase contrast unit For a higher contrast

Darkfield condenser/unit

For a higher contrast due to indirect





Polarising unit To polarise the light

Infinity system

illumination





Zoom magnification For stereomicroscopes



Parallel optical system For stereomicroscopes, enables fatigue-proof working

Infinity corrected optical system



Integrated scale In the eyepiece

HDMI digital camera

SLR Kamera Single-Lens Reflex camera

display device



USB 2.0

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HDMI

LWD

N.A.

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

For direct transmitting of the picture to a



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



SD card For data storage

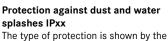


PC software To transfer the measurements from the device to a PC.



Automatic temperature compesation For measurements between 10 °C and 30 °C





pictogram. **Battery operation** 



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



Battery operation rechargable Prepared for a rechargable battery



Mains adapter 230V/50Hz in standard version for EU.



#### Power supply

pictogram.

operation

Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, AUS or USA on request.

On request GB, AUS or USA version.

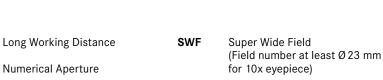


#### Package shipment The time required to manufacture the

product internally is shown in days in the pictogram. Warrantv

The warranty period is shown in the

**3**YEARS WARRANTY



WF

W.D. Working Distance	е
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Wide Field (Field number up to Ø22 mm for 10x eyepiece)

Your KERN specialist dealer:

