





### LAB LINE

Professional and powerful – thanks to its extremely large magnification range, strong illumination and first-class optics

### Features

- The KERN OZP stereo zoom microscope stands out through its above-average magnification range and its robust shape which is also ergonomic, it enables effortless, simple working over a period of several hours
- The KERN OZP 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
- With its large working distance, an extra large field of view and brilliant resolution, the KERN OZP provides sharp, high-contrast and colour-true images
- The extremely large, continuously adjustable magnification range from 6 to 55 times magnification means that you can work quickly and effectively
- There is a choice of a binocular model as well as a trinocular model 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

 Zoology and botany, 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: Greenough optics
- Brightness adjustable (separate)
- Tube: 35° inclined
- Magnification ratio: 9,2:1
- Light distribution OZP 557/558: 50:50
- Interpupillary distance 52 76 mm
- Diopter adjustment: Both-sided
  Overall dimensions W×D×H 330×285×470 mm
- Net weight approx. 4,5 kg



Model	Standard configuration						
	Tube	Eyepiece	Field of view	Objective	Stand	Illumination	
KERN			mm	Zoom			
OZP 556	Binocular	HSWF 10×/Ø 23 mm	Ø 38,3 – 4,2	0,6×-5,5×	Pillar style	3 W LED (incident); 3 W LED (transmitted)	
OZP 558	Trinocular	HSWF 10×/Ø 23 mm	Ø 38,3-4,2	0,6×-5,5×	Pillar style	3 W LED (incident); 3 W LED (transmitted)	



## Stereo zoom microscope KERN OZP-5

Eyepiece	Specifications - Objectives							
	Magnification	Standard	Auxiliary objectives					
		1,0×	0,5×	0,7×	1,5×	2×		
HSWF 10×	Total magnification	6×-55×	3×-27,5×	4,2×-38,5×	9×-82,5×	12×-110×		
	Field of view mm	Ø 38,3-4,2	Ø 76,7-8,4	Ø 54,8-6	Ø 25,6-2,8	Ø 19,2-2,1		
	Total magnification	9×-82,5×	4,5×-41,25×	6,3×-57,75×	13,5×-123,75×	18×-165×		
SWF 15×	Field of view mm	Ø 28,3-3,1	Ø 56,7-6,2	Ø 40,5-4,4	Ø 18,9 – 2,1	Ø 14,2 – 1,5		
SWF 20×	Total magnification	12×-110×	6×-55×	8,4×-77×	18×-165×	24×-220×		
	Field of view mm	Ø 23,3 – 2,5	Ø 46,7 – 5,1	Ø 33,3-3,6	Ø 15,6 – 1,7	Ø 11,7 – 1,3		
SWF 30×	Total magnification	18× – 165×	9×-82,5×	12,6×-115,5×	27×-247,5×	36×-330×		
	Field of view mm	Ø 15 – 1,6	Ø 30 – 3,3	Ø 21,4-2,3	Ø 10-1,1	Ø 7,5 – 0,8		
Working distance		108 mm	195 mm	145 mm	50 mm	35 mm		
Maximum sample height		110 mm	10 mm	45 mm	140 mm	150 mm		

Model outfit		Mode	I KERN	Order number				
		OZP 556	OZP 558					
	HSWF 10×/Ø 23 mm	<b>~</b>	<b>~</b>	OZB-A5503				
	SWF 15×/ø 17 mm	00	00	OZB-A5504				
	SWF 20×/Ø 14 mm	00	00	OZB-A5505				
<b>Eyepieces</b> (30,0 mm)	SWF 30×/Ø 9 mm	00	00	OZB-A5506				
	HSWF 10×/Ø 23 mm (reticule 0,1 mm)	0	0	OZB-A5512				
	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				
	0,5×	0	0	OZB-A5612				
	0,7×	0	0	OZB-A5613				
Achromatic auxiliary objectives	1,5×	0	0	OZB-A5615				
	2,0×	0	0	OZB-A5616				
	Soldering protection lens	0	0	OZB-A5614				
	0,3× (focus adjustable)		0	OZB-A5701				
	0,5× (focus adjustable)		0	OZB-A5702				
	1,0× (focus adjustable)		0	OZB-A5703				
C-Mount	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	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)	~	~					
	Please find more stands in the catalogue on page 79 and on the internet							
	Frosted glass/Ø 94,5 mm		✓	OZB-A5192				
Stage plate	Black-white/Ø 94,5 mm	✓	✓	OZB-A5191				
	Clear glass/Ø 94,5 mm		0	OZB-A5190				
Mechanical stage 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 on p	bage 83 and on the	e internet				

# **KERN OPTICS CATALOGUE 2022**

#### 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



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



Fluorescence illumination C for compound microscopes FL-LED 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



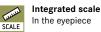
Zoom magnification For stereomicroscopes



Auto-focus For automatic control of the focus level



Parallel optical system For stereomicroscopes, enables fatigue-proof working



SD card For data storage



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



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



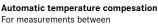
HDMI digital camera For direct transmitting of the picture to a display

SOFTWARE

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

device

AUTO ATC



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



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 1 DAY product internally is shown in days in the pictogram.

## 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 Ø 23 mm for 10× 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 camera	Single-Lens Reflex camera	WF	Wide Field (Field number up to Ø 22 mm for 10× eyepiece)

### Your KERN specialist dealer:





# **Wolf Laboratories Limited**

www.wolflabs.co.uk

Tel: 01759 301142

Fax:01759 301143

sales@wolflabs.co.uk



# 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.





