



KERN OZP 556 Stereo Zoom Microscope Owner's Manual

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KERN OZP 556 Stereo Zoom Microscope



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-dimensional 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
- **Dioptr adjustment:** Both-sided
- **Overall dimensions:** W×D×H 330×285×470 mm
- **Net weight approx.:** 4,5 kg

STANDARD



OPTION



Model	Standard configuration						
	Tube	Eyepiece	Field of view mm	Objective Zoom	Stand	Illumination	
OZP 55 6	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 55 8	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 1,0×	Auxiliary objectives			
			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
SWF 15×	Total magnification	9× – 82,5×	4,5× – 41,2 5×	6,3× – 57,7 5×	13,5× – 12 3,75×	18× – 165×
	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× – 11 5,5×	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		Model KERN		Order nu mber	
		OZP 556	OZP 558		
Eyepieces (30,0 mm)	HSWF 10×/Ø 23 mm			OZB-A550 3	
	SWF 15×/Ø 17 mm			OZB-A550 4	
	SWF 20×/Ø 14 mm			OZB-A550 5	
	SWF 30×/Ø 9 mm			OZB-A550 6	
	HSWF 10×/Ø 23 mm (reticule 0,1 mm)			OZB-A551 2	
	SWF 15×/Ø 17 mm (reticule 0,05 mm)			OZB-A551 3	
	SWF 20×/Ø 14 mm (reticule 0,05 mm)			OZB-A551 4	
	0,5×			OZB-A561 2	

Achromatic auxiliary objectives	0,7×			OZB-A561 3	
	1,5×			OZB-A561 5	
	2,0×			OZB-A561 6	
	Soldering protection lens			OZB-A561 4	
C-Mount	0,3× (focus adjustable)			OZB-A570 1	
	0,5× (focus adjustable)			OZB-A570 2	
	1,0× (focus adjustable)			OZB-A570 3	
	1,0× (with micrometer) only in combination with OZB-A5703			OZB-A570 4	
	for SLR cameras (Nikon)			OZB-A570 6	
	for SLR cameras (Olympus)			OZB-A570 7	
	for SLR cameras (Canon)			OZB-A570 8	
Darkfield unit	Darkfield unit			OZB-A460 1	
Object clamp	Object clamp			OBB-A620 5	
Stand	Pillar style, without illumination				
	Pillar style, with 3 W LED illumination (transmitted + incident)				
	Please find more stands in the catalogue on page 79 and on the internet				
Stage plate	Frosted glass/Ø 94,5 mm			OZB-A519 2	
	Black-white/Ø 94,5 mm			OZB-A519 1	
	Clear glass/Ø 94,5 mm			OZB-A519 0	
Mechanical stage (Pre-assembly on request)	Stage size W×D 188×160 mm, Travel 76×65 mm, for incident and transmitted illumination			OZB-A578 1	
	Stage size W×D 180×175 mm, Travel 100×86 mm, for incident illumination only			OZB-A578 2	

External illumination

Please find the information about external illumination units in the catalogue on page 83 and on the internet

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 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 digital camera**

For direct transmitting of the picture to a PC





- **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 device



- **PC software**

To transfer the measurements from the device to a PC



- **Automatic temperature compensation**

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 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.




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)

Your KERN specialist dealer

Documents / Resources

	<p>KERN OZP 556 Stereo Zoom Microscope [pdf] Owner's Manual</p> <p>OZP 556 Stereo Zoom Microscope, OZP 556, Stereo Zoom Microscope, Zoom Microscope, Microscope</p>
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