



OZP 555



OZP 558



Trinocular head

**LAB LINE**

The high-quality model for flexible and professional users

**Features**

- The KERN OZP-5 models are very robust and easy to use stereo microscopes with a zoom function operable from both sides for an above-average enlargement range.
- Their qualities, the flexible pillar stand and the optional integral, powerful and long-life LED incident and transmitted illumination make these models especially flexible.
- On all models it is possible to adjust the diopter on both tubes.
- A trinocular model version, allowing a camera to be fitted, is also available.
- These models are optimally suited to quality control, assembly and repair workstations in the electronics and semi-conductor industries and in biological laboratories and research establishments.
- These models are also ideal for use at workstations in rough working environments, such as training establishments, workshops and in production.

- The design of these special optical system allows a large depth of field, where only very little refocussing at the zoom enlargement is necessary.
- In addition, thanks to its precise resolution, it provides high-contrast images, an extra large field of view and is absolutely true-to-colour.
- These models offer the best possible ease of use thanks to their extra large working distance providing a large working surface.
- The multitude of auxiliary objectives, eyepieces, universal stands and additional accessory parts facilitates use in all common stereo microscopy applications.
- One of the central features of this variable and simultaneously robust series of microscopes is the stable and precisely adjustable mechanism. This is underlined by the functional and ergonomic design.

**Technical data**

- Optical system: Greenough
- Brightness adjustable
- Magnification ratio: 9,2:1
- Tube: 35° inclined
- Interpupillary distance: 52 – 76 mm
- Diopter adjustment (both-sided)
- Packing dimensions WxDxH 370x330x385 mm

**OZP 555 / OZP 557**

- Net weight approx. 5,1 kg

**OZP 556 / OZP 558**

- Net weight approx. 6,1 kg

Please find detailed information in the following charts.

STANDARD



OPTION



Model	Standard configuration						
	Tube	Eyepiece	Field of view mm	Objective Zoom	Stand	Illumination	
<b>KERN</b>							
<b>OZP 555</b>	Binocular	HSWF 10x Ø 23 mm	Ø 38,3 – 4,2	0,6x – 5,5x	Pillar style	–	
<b>OZP 556</b>	Binocular	HSWF 10x Ø 23 mm	Ø 38,3 – 4,2	0,6x – 5,5x	Pillar style	3W LED (incident); 3W LED (transmitting)	
<b>OZP 557</b>	Trinocular	HSWF 10x Ø 23 mm	Ø 38,3 – 4,2	0,6x – 5,5x	Pillar style	–	
<b>OZP 558</b>	Trinocular	HSWF 10x Ø 23 mm	Ø 38,3 – 4,2	0,6x – 5,5x	Pillar style	3W LED (incident); 3W LED (transmitting)	

Eyepiece	Specifications - Objectives						
	Magnification	Standard 1,0x	Auxiliary objectives				
			0,37x	0,5x	0,7x	1,5x	2x
HSWF 10x	Total magnification	6x - 55x	2,22x - 20,4x	3x - 27,5x	4,2x - 38,5x	9x - 82,5x	12x - 110x
	Field of view mm	Ø 38,3 - 4,2	Ø 99,1 - 10,8	Ø 76,7 - 8,4	Ø 54,8 - 6	Ø 25,6 - 2,8	Ø 19,2 - 2,1
SWF 15x	Total magnification	9x - 82,5x	3,33x - 30,5x	4,5x - 41,25x	6,3x - 57,75x	13,5x - 123,75x	18x - 165x
	Field of view mm	Ø 28,3 - 3,1	Ø 76,6 - 8,35	Ø 56,7 - 6,2	Ø 40,5 - 4,4	Ø 18,9 - 2,1	Ø 14,2 - 1,5
SWF 20x	Total magnification	12x - 110x	4,44x - 40,7x	6x - 55x	8,4x - 77x	18x - 165x	24x - 220x
	Field of view mm	Ø 23,3 - 2,5	Ø 63,1 - 6,9	Ø 46,7 - 5,1	Ø 33,3 - 3,6	Ø 15,6 - 1,7	Ø 11,7 - 1,3
SWF 30x	Total magnification	18x - 165x	6,66x - 61,1x	9x - 82,5x	12,6x - 115,5x	27x - 247,5x	36x - 330x
	Field of view mm	Ø 15 - 1,6	Ø 40,5 - 4,4	Ø 30 - 3,3	Ø 21,4 - 2,3	Ø 10 - 1,1	Ø 7,5 - 0,8
<b>Working distance</b>		108 mm	275 mm	195 mm	145 mm	50 mm	35 mm

Model outfit		Model KERN				Order number	
		OZP 555	OZP 556	OZP 557	OZP 558		
Eyepieces	HSWF 10x / Ø 23 mm	●●	●●	●●	●●	OZB-A5503	
	SWF 15x / Ø 17 mm	○○	○○	○○	○○	OZB-A5504	
	SWF 20x / Ø 14 mm	○○	○○	○○	○○	OZB-A5505	
	SWF 30x / Ø 9 mm	○○	○○	○○	○○	OZB-A5506	
	HSWF 10x / Ø 23 mm (reticule 0,1 mm)	○	○	○	○	OZB-A5512	
	SWF 15x / Ø 17 mm (reticule 0,05 mm)	○	○	○	○	OZB-A5513	
	SWF 20x / Ø 14 mm (reticule 0,05 mm)	○	○	○	○	OZB-A5514	
Achromatic auxiliary objectives	0,37x	○	○	○	○	OZB-A5611	
	0,5x	○	○	○	○	OZB-A5612	
	0,7x	○	○	○	○	OZB-A5613	
	1,5x	○	○	○	○	OZB-A5615	
	2,0x	○	○	○	○	OZB-A5616	
C-Mount	0,3x			○	○	OZB-A5701	
	0,5x			○	○	OZB-A5702	
	1,0x			○	○	OZB-A5703	
	1,0x (with micrometer)			○	○	OZB-A5704	
	for SLR cameras (Nikon)			○	○	OZB-A5706	
	for SLR cameras (Olympus)			○	○	OZB-A5707	
	for SLR cameras (Canon)			○	○	OZB-A5708	
Darkfield attachment	○	○	○	○	OBB-A6201		
Object clamp	○	○	○	○	OBB-A6205		
Stands	Pillar style, without illumination	●		●			
	Pillar style, with 3W LED illumination (transmitting + incident)		●		●		
	Please find more stands in the catalogue from page 64 and on our website <a href="http://www.kern-sohn.com">www.kern-sohn.com</a>						
Stage plate	Frosted glass / Ø 94,5 mm		●		●	OZB-A5192	
	Black-white / Ø 94,5 mm	●	●	●	●	OZB-A5191	
	Glass / Ø 94,5 mm		○		○	OZB-A5190	
Mechanical stage	Stage size: WxD 188x160 mm, Travel: 76x65 mm, for incident and transmitting illumination	○	○	○	○	OZB-A5781	
	Stage size: WxD 180x175 mm, Travel: 100x86 mm, for incident illumination only	○	○	○	○	OZB-A5782	
External illumination	Please find the information about external illumination units in the catalogue from page 68 and on our website <a href="http://www.kern-sohn.com">www.kern-sohn.com</a>						

● = Standard configuration

○ = Option

 <b>360°</b>	<b>360° rotatable microscope head</b>	 <b>FL-HB0</b>	<b>Fluorescence illumination for compound microscopes</b> With 100 W mercury lamp and filter	 <b>AUTO ATC</b>	<b>Automatic temperature compensation</b> For measurements between 10 °C and 30 °C
 <b>MONO</b>	<b>Monocular Microscope</b> For the inspection with one eye	 <b>FL-LED</b>	<b>Fluorescence illumination for compound microscopes</b> With 3 W LED illumination and filter	 <b>IP</b>	<b>Protection against dust and water splashes IPxx</b> The type of protection is shown by the pictogram.
 <b>BINO</b>	<b>Binocular Microscope</b> For the inspection with both eyes	 <b>PH</b>	<b>Phase contrast unit</b> For a higher contrast	 <b>BATT</b>	<b>Battery operation</b> Ready for battery operation. The battery type is specified for each device.
 <b>TRINO</b>	<b>Trinocular Microscope</b> For the inspection with both eyes and the additional option for the connection of a camera	 <b>POLAR</b>	<b>Polarising unit</b> To polarise the light	 <b>ACCU</b>	<b>Rechargeable battery pack</b> Rechargeable set.
 <b>ABBE</b>	<b>Abbe Condenser</b> With high numerical aperture for the concentration and the focusing of light	 <b>INFINITY</b>	<b>Infinity system</b> Infinity corrected optical system	 <b>230 V</b>	<b>Mains adapter</b> 230V/50Hz in standard version for EU. On request GB, AUS or USA version.
 <b>HAL</b>	<b>Halogen illumination</b> For pictures bright and rich in contrast	 <b>ZOOM</b>	<b>Zoom magnification</b> For stereomicroscopes	 <b>230 V</b>	<b>Power supply</b> Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, AUS or USA on request.
 <b>LED</b>	<b>LED illumination</b> Cold, energy saving and especially long-life illumination	 <b>PARALLEL</b>	<b>Parallel optical system</b> For stereomicroscopes, enables fatigue-proof working	 <b>DAYS</b>	<b>Package shipment</b> The time required to manufacture the product internally is shown in days in the pictogram.
 <b>IL</b>	<b>Incident illumination</b> For non-transparent objects	 <b>SCALE</b>	<b>Integrated scale</b> In the eyepiece	 <b>3 YEARS WARRANTY</b>	<b>Warranty</b> The warranty period is shown in the pictogram.
 <b>TL</b>	<b>Transmitting illumination</b> For transparent objects	 <b>USB 2.0</b>	<b>Integrated USB 2.0 digital camera</b> For direct transmitting of the picture to a PC		
 <b>FL</b>	<b>Fluorescence illumination</b> For stereomicroscopes	 <b>USB 3.0</b>	<b>Integrated 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>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 Kamera</b>	Single-Lens Reflex camera	<b>WF</b>	Wide Field (Field number up to Ø 22 mm for 10x eyepiece)
<b>LWD</b>	Long Working Distance	<b>SWF</b>	Super Wide Field (Field number at least Ø 23 mm for 10x eyepiece)		

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