



OZO 552/554  
With illumination



OZO 551/553  
Without illumination

Trinocular version

**LAB LINE**

The high-contrast and flexible stereo zoom microscope for professional applications which require high levels of magnification

**Features**

- The KERN OZO series will stand out through its large magnification range in higher magnifications as well as its sturdy construction and the fact that it is easy to use.
- The ergonomic shape allows a simple, effortless working over a period of several hours.
- The KERN OZO 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 OZO provides sharp, high-contrast and colour-true images.
- The large, continuously adjustable magnification radius from 8 to 70 times magnification means that you can work quickly and efficiently.
- There is a choice of two binocular models as well as two trinocular models 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**

- 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: 8,8:1
- Light distribution OZO 553/554: 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

STANDARD



OPTION

Model	Standard configuration						
	Tube	Eyepiece	Field of view mm	Objective Zoom	Stand	Illumination	
<b>KERN</b>							
<b>OZO 551</b>	Binocular	HSWF 10×/ø 23 mm	ø 28,75 – 3,3	0,8× – 7×	Pillar style	–	↓
<b>OZO 552</b>	Binocular	HSWF 10×/ø 23 mm	ø 28,75 – 3,3	0,8× – 7×	Pillar style	3 W LED (incident); 3 W LED (transmitted)	↓
<b>OZO 553</b>	Trinocular	HSWF 10×/ø 23 mm	ø 28,75 – 3,3	0,8× – 7×	Pillar style	–	↓
<b>OZO 554</b>	Trinocular	HSWF 10×/ø 23 mm	ø 28,75 – 3,3	0,8× – 7×	Pillar style	3 W LED (incident); 3 W LED (transmitted)	↓

ONLY WHILE STOCKS LAST

Price reduction

Eyepiece	Specifications - Objectives						
	Magnification	Standard 1,0×	Auxiliary objectives				
			0,37×	0,5×	0,7×	1,5×	2×
HSWF 10×	Total magnification	8× - 70×	2,96× - 25,9×	4× - 35×	5,6× - 49×	12× - 105×	16× - 140×
	Field of view mm	∅ 28,75 - 3,3	∅ 74,3 - 8,5	∅ 57,5 - 6,6	∅ 41,1 - 4,7	∅ 19,2 - 2,2	∅ 14,4 - 1,6
SWF 15×	Total magnification	12× - 105×	4,44× - 38,9×	6× - 52,5×	8,4× - 73,5×	18× - 157,5×	24× - 210×
	Field of view mm	∅ 21,25 - 2,4	∅ 57,4 - 6,6	∅ 42,5 - 4,9	∅ 30,4 - 3,5	∅ 14,2 - 1,6	∅ 10,6 - 1,2
SWF 20×	Total magnification	16× - 140×	5,92× - 51,8×	8× - 70×	11,2× - 98×	24× - 210×	32× - 280×
	Field of view mm	∅ 17,5 - 2	∅ 47,3 - 5,4	∅ 35 - 4	∅ 25 - 2,9	∅ 11,7 - 1,3	∅ 8,75 - 1
SWF 30×	Total magnification	24× - 210×	8,88× - 77,7×	12× - 105×	16,8× - 147×	36× - 315×	48× - 420×
	Field of view mm	∅ 11,25 - 1,3	∅ 30,4 - 3,5	∅ 22,5 - 2,6	∅ 16,1 - 1,8	∅ 7,5 - 0,9	∅ 5,625 - 0,6
<b>Working distance</b>		108 mm	275 mm	195 mm	145 mm	50 mm	35 mm

Model outfit		Model KERN				Order number	
		OZO 551	OZO 552	OZO 553	OZO 554		
Eyepieces (30,0 mm)	HSWF 10×/∅ 23 mm	✓✓	✓✓	✓✓	✓✓	OZB-A5503	
	SWF 15×/∅ 17 mm	○	○	○	○	OZB-A5504	
	SWF 20×/∅ 14 mm	○	○	○	○	OZB-A5505	
	SWF 30×/∅ 9 mm	○	○	○	○	OZB-A5506	
	HSWF 10×/∅ 23 mm (reticule 0,1 mm)	○	○	○	○	OZB-A5512	
	SWF 15×/∅ 17 mm (reticule 0,05 mm)	○	○	○	○	OZB-A5513	
	SWF 20×/∅ 14 mm (reticule 0,05 mm)	○	○	○	○	OZB-A5514	
Achromatic auxiliary objectives	0,37× only in combination with a universal stand	○	○	○	○	OZB-A5611	
	0,5×	○	○	○	○	OZB-A5612	
	0,7×	○	○	○	○	OZB-A5613	
	1,5×	○	○	○	○	OZB-A5615	
	2,0×	○	○	○	○	OZB-A5616	
	Soldering protection lens	○	○	○	○	OZB-A5614	
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)		✓		✓		
	Please find more stands in the catalogue on page 84 and on our website <a href="http://www.kern-sohn.com">www.kern-sohn.com</a>						
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 transmitted and incident 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 from page 87 and on our website <a href="http://www.kern-sohn.com">www.kern-sohn.com</a>						

✓ = Included with delivery

○ = Option

 <b>360°</b>	<b>360° rotatable microscope head</b>	 <b>FL-LED</b>	<b>Fluorescence illumination for compound microscopes</b> With 3 W LED illumination and filter	 <b>SD</b>	<b>SD card</b> For data storage
 <b>MONO</b>	<b>Monocular Microscope</b> For the inspection with one eye	 <b>PH</b>	<b>Phase contrast unit</b> For a higher contrast	 <b>SOFTWARE</b>	<b>PC software</b> To transfer the measurements from the device to a PC.
 <b>BINO</b>	<b>Binocular Microscope</b> For the inspection with both eyes	 <b>DF</b>	<b>Darkfield condenser/unit</b> For a higher contrast due to indirect illumination	 <b>AUTO ATC</b>	<b>Automatic temperature compensation</b> For measurements between 10 °C and 30 °C
 <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>IP</b>	<b>Protection against dust and water splashes IPxx</b> The type of protection is shown by the pictogram.
 <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>BATT</b>	<b>Battery operation</b> Ready for battery operation. The battery type is specified for each device.
 <b>HAL</b>	<b>Halogen illumination</b> For pictures bright and rich in contrast	 <b>ZOOM</b>	<b>Zoom magnification</b> For stereomicroscopes	 <b>RECHARGE</b>	<b>Battery operation rechargeable</b> Prepared for a rechargeable battery operation
 <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>230 V</b>	<b>Mains adapter</b> 230V/50Hz in standard version for EU. On request GB, AUS or USA version.
 <b>IL</b>	<b>Incident illumination</b> For non-transparent objects	 <b>SCALE</b>	<b>Integrated scale</b> In the eyepiece	 <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>TL</b>	<b>Transmitting illumination</b> For transparent objects	 <b>USB 2.0</b>	<b>USB 2.0 digital camera</b> For direct transmitting of the picture to a PC	 <b>1 DAY</b>	<b>Package shipment</b> The time required to manufacture the product internally is shown in days in the pictogram.
 <b>FL</b>	<b>Fluorescence illumination</b> For stereomicroscopes	 <b>USB 3.0</b>	<b>USB 3.0 digital camera</b> For direct transmitting of the picture to a PC	 <b>3 YEARS WARRANTY</b>	<b>Warranty</b> The warranty period is shown in the pictogram.
 <b>FL-HBO</b>	<b>Fluorescence illumination for compound microscopes</b> With 100 W mercury lamp and filter	 <b>HDMI</b>	<b>HDMI digital camera</b> For direct transmitting of the picture to a display device		

## Abbreviations

<b>C-Mount</b> Adapter for the connection of a camera to a trinocular microscope	<b>LWD</b> Long Working Distance	<b>SWF</b> Super Wide Field (Field number at least $\varnothing$ 23 mm for 10 $\times$ eyepiece)
<b>FPS</b> Frames per second	<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 $\varnothing$ 22 mm for 10 $\times$ eyepiece)

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