



OZS 574  
With illumination



OZS 573  
Without illumination

**PROFESSIONAL LINE**

High-quality parallel optics for the best images, depth of field and contrast – with extra large zoom range

**Features**

- The devices in the KERN OZS series are special, high-quality stereo zoom microscopes with parallel optics and an above-average zoom range for demanding analyses
- The KERN OZS 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 optics is a high-quality optical system and provides excellent images with the best contrast, colour and depth of field with fatigue-free working
- The exceptionally large, adjustable magnification range from 8 to 80 times magnification gives you continuous zoom for the views you need
- As standard, the models of the KERN OZS series are trinocular and therefore equipped for connecting a camera for documentation purposes and for quality reports
- These models are particularly flexible due to the modular construction, the pillar stand as well as the powerful, longlife LED reflected and transmitted illumination which can be integrated as an option
- 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. You can select this adapter from the following model outfit list
- Please find detailed information in the following model outfit list

**Scope of application**

- In vitro fertilisation, detection of parasites, zoology and botany, tissue preparation, section, quality control, electronics and semiconductor industry, assembly and repair

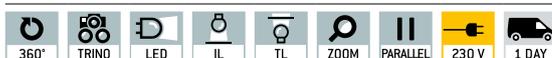
**Applications/Samples**

- Samples with focus on three-dimensional 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: 10:1
- Light distribution 50:50
- 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



OPTION



Model	Standard configuration						
	Tube	Eyepiece	Field of view mm	Objective Zoom	Stand	Illumination	
<b>KERN</b>							
<b>OZS 573*</b>	Trinocular	HWF 10×/ø 22 mm	ø 27,5 – 2,75	0,8× – 8×	Pillar style	-	↓
<b>OZS 574</b>	Trinocular	HWF 10×/ø 22 mm	ø 27,5 – 2,75	0,8× – 8×	Pillar style	3 W LED (incident); 3 W LED (transmitted)	

\* ONLY WHILE STOCKS LAST

↓ Price reduction

Eyepiece	Specifications - Objectives				
	Magnification	Standard Plan 1,0×	Achromatic objectives		
			0,5×	0,7×	1,5× (Auxiliary)
HWF 10×	Total magnification	8× - 80×	4× - 40×	5,6× - 56×	12× - 120×
	Field of view mm	∅ 27,5 - 2,75	∅ 55 - 5,5	∅ 39,3 - 3,93	∅ 18,33 - 1,83
SWF 15×	Total magnification	12× - 120×	6× - 60×	8,4× - 84×	18× - 180×
	Field of view mm	∅ 21,25 - 2,13	∅ 42,5 - 4,25	∅ 30,36 - 3,04	∅ 14,17 - 1,42
SWF 20×	Total magnification	16× - 160×	8× - 80×	11,2× - 112×	24× - 240×
	Field of view mm	∅ 17,5 - 1,75	∅ 35 - 3,5	∅ 25 - 2,5	∅ 11,67 - 1,17
SWF 30×	Total magnification	24× - 240×	12× - 120×	16,8× - 168×	36× - 360×
	Field of view mm	∅ 11,25 - 1,13	∅ 22,5 - 2,25	∅ 16,1 - 1,61	∅ 7,5 - 0,75
Working distance		91 mm	186 mm	135 mm	40 mm
Maximum sample height		100 mm	30 mm	80 mm	125 mm

Model outfit		Model KERN		Order number	
		OZS 573	OZS 574		
Eyepieces (30,0 mm)	HWF 10×/∅ 22 mm	✓✓	✓	OZB-A5502	
	SWF 15×/∅ 17 mm	○○	○○	OZB-A5504	
	SWF 20×/∅ 14 mm	○○	○○	OZB-A5505	
	SWF 30×/∅ 9 mm	○○	○○	OZB-A5506	
	HWF 10×/∅ 22 mm (reticule 0,1 mm)	○	○	OZB-A5511	
	SWF 15×/∅ 17 mm (reticule 0,05 mm)	○	○	OZB-A5513	
	SWF 20×/∅ 14 mm (reticule 0,05 mm)	○	○	OZB-A5514	
Plan achromatic objective	1,0×	✓	✓	OZB-A5603	
Achromatic objectives	0,5×	○	○	OZB-A5601	
	0,7×	○	○	OZB-A5602	
	1,5× Only in combination with OZB-A5603	○	○	OZB-A5604	
Trinocular beamsplitter	Division 100:0	✓	✓	OZB-A5401	
	Division 50:50	○	○	OZB-A5402	
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)		✓		
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 incident and transmitted 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 on page 83 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>WLAN</b>	<b>WLAN data interface:</b> For transmitting of the picture to a mobile display device
 <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>HDMI</b>	<b>HDMI digital camera</b> For direct transmitting of the picture to a display device
 <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>SOFTWARE</b>	<b>PC software</b> To transfer the measurements from the device to a PC.
 <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>AUTO ATC</b>	<b>Automatic temperature compensation</b> For measurements between 10 °C and 30 °C
 <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>IP</b>	<b>Protection against dust and water splashes IPxx</b> The type of protection is shown by the pictogram.
 <b>HAL</b>	<b>Halogen illumination</b> For pictures bright and rich in contrast	 <b>ZOOM</b>	<b>Zoom magnification</b> For stereomicroscopes	 <b>BATT</b>	<b>Battery operation</b> Ready for battery operation. The battery type is specified for each device.
 <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>RECHARGE</b>	<b>Battery operation rechargeable</b> Prepared for a rechargeable battery operation
 <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>Mains adapter</b> 230V/50Hz in standard version for EU. On request GB, AUS or USA version.
 <b>TL</b>	<b>Transmitting illumination</b> For transparent objects	 <b>SD</b>	<b>SD card</b> For data storage	 <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>FL</b>	<b>Fluorescence illumination</b> For stereomicroscopes	 <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-HBO</b>	<b>Fluorescence illumination for compound microscopes</b> With 100 W mercury lamp and filter	 <b>USB 3.0</b>	<b>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>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)

## Your KERN specialist dealer: