



OZS 573



OZS 574

**PROFESSIONAL LINE**

The high-zoom parallel model for the professional user

**Features**

- The KERN OZS-5 models are highly professional, very robust but 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.
- All models have diopter adjustment on both tubes and are supplied with an adapter, allowing a camera to be fitted.
- The parallel optical system allows work without tiring the eyes and offers a large depth of field. In addition, only very minor refocussing at the zoom enlargement is necessary.
- Furthermore, it provides precise resolution, an extra large field of view and is absolutely true-to-colour.
- These models are optimally suited to quality control, assembly and repair workstations

- in the electronics and semi-conductor industries as well as 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.
- 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 and professional 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: Parallele
- Brightness adjustable
- Magnification ratio: 10:1
- Tube: 45° inclined
- Interpupillary distance: 52 - 76 mm
- Diopter adjustment (both-sided)
- Packing dimensions WxDxH 370x330x385 mm

**OZS 573**

- Net weight approx. 6,1 kg

**OZS 574**

- Net weight approx. 7,1 kg

Please find detailed information in the following charts.

STANDARD

360° 
 TRINO 
 LED 
 IL 
 TL 
 ZOOM 
 PARALLEL 
 230 V 
 1 DAY 
 3 YEARS WARRANTY

OPTION

SCALE

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

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

Model outfit		Model KERN		Order number	
		OZS 573	OZS 574		
Eyepieces	HWF 10x / Ø 22 mm	●●	●●	OZB-A5502	
	SWF 15x / Ø 17 mm	○○	○○	OZB-A5504	
	SWF 20x / Ø 14 mm	○○	○○	OZB-A5505	
	SWF 30x / Ø 9 mm	○○	○○	OZB-A5506	
	HWF 10x / Ø 22 mm (reticule 0,1 mm)	○	○	OZB-A5511	
	SWF 15x / Ø 17 mm (reticule 0,05 mm)	○	○	OZB-A5513	
	SWF 20x / Ø 14 mm (reticule 0,05 mm)	○	○	OZB-A5514	
Plan achromatic objective	1,0x	●	●	OZB-A5603	
Achromatic objectives	0,5x	○	○	OZB-A5601	
	0,7x	○	○	OZB-A5602	
	1,5x (Only in combination with OZB-A5603)	○	○	OZB-A5604	
Trinocular beamsplitter	Division 100:0	●	●	OZB-A5401	
	Division 50:50	○	○	OZB-A5402	
C-Mount	0,3x	○	○	OZB-A5701	
	0,5x	○	○	OZB-A5702	
	1,0x	○	○	OZB-A5703	
	1,0x (reticule)	○	○	OZB-A5704	
	for SLR cameras (Nikon)	○	○	OZB-A5706	
	for SLR cameras (Olympus)	○	○	OZB-A5707	
	for SLR cameras (Canon)	○	○	OZB-A5708	
Darkfield attachment	Darkfield attachment	○	○	OBB-A6201	
Object clamp	Object clamp	○	○	OBB-A6205	
Stands	Pillar style, without illumination	●			
	Pillar style, with 3W LED illumination (transmitting + incident)		●		
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)		

## Your KERN specialist dealer: