Stereo zoom microscope KERN OZS-5







PROFESSIONAL LINE The high-zoom parallel model for the professional user

Features

STANDARD

- 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 aboveaverage 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.

OPTION

Technical data

- Optical system: Parallel
- 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.

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

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

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Eyepiece	Specifications – Objectives							
	Magnification	Standard Plan	Achromatic objectives					
		1,0x	0,5x	0,7x	1,5x (Auxiliary)			
HWF 10x	Total magnification	8x-80x	4x - 40x	5,6x - 56x	12x - 120x			
HWF IOX	Field of view mm	Ø 27,5 - 2,75	Ø 55 – 5,5	Ø 39,3 – 3,93	Ø 18,33 - 1,83			
SWE 15-	Total magnification	12x - 120x	6x-60x	8,4x-84x	18x - 180x			
SWF 15x	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			
SWF 20X	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			
SWF SUX	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		Mode	I KERN	Order number		
		OZS 573	OZS 574			
	HWF 10x / Ø 22 mm	••	••	OZB-A5502		
	SWF 15x / Ø 17 mm	00	00	OZB-A5504		
	SWF 20x / Ø 14 mm	00	00	OZB-A5505		
Eyepieces	SWF 30x / Ø 9 mm	00	00	OZB-A5506		
	HWF 10x / Ø 22 mm (reticule 0,1 mm)	0	0	OZB-A5511		
	SWF 15x / Ø 17 mm (reticule 0,05 mm)	0	0	OZB-A5513		
	SWF20x / Ø 14 mm (reticule 0,05 mm)	0	0	OZB-A5514		
Plan achromatic objective	1,0x	•	•	OZB-A5603		
	0,5x	0	0	OZB-A5601		
Achromatic objectives	0,7x	0	0	OZB-A5602		
	1,5x (Only in combination with OZB-A5603)	0	0	OZB-A5604		
Trinocular	Division 100:0	•	•	OZB-A5401		
beamsplitter	Division 50:50	0	0	OZB-A5402		
	0,3x	0	0	OZB-A5701		
	0,5x	0	0	OZB-A5702		
	1,0x	0	0	OZB-A5703		
C-Mount	1,0x (reticule)	0	0	OZB-A5704		
	for SLR cameras (Nikon)	0	0	OZB-A5706		
	for SLR cameras (Olympus)	0	0	OZB-A5707		
	for SLR cameras (Canon)	0	0	OZB-A5708		
Darkfield attachment	Darkfield attachment	0	0	OBB-A6201		
Object clamp	Object clamp	0	0	OBB-A6205		
Stands	Pillar style, without illumination	•				
Stands	Pillar style, with 3W LED illumination (transmitting + incident)		•			
	Frosted glass / Ø 94,5 mm		•	OZB-A5192		
Stage plate	Black-white / Ø 94,5 mm	٠	•	OZB-A5191		
	Glass / Ø 94,5 mm		0	OZB-A5190		
Maghanias ators	Stage size: WxD 188x160 mm, Travel: 76x65 mm, for incident and transmitting illumination	ο	0	OZB-A5781		
Mechanical stage	Stage size: WxD 180x175 mm, Travel: 100x86 mm, for incident illumination only	o	0	OZB-A5782		
External illumination	Please find the information about external illumination units in the catalogue from page 68 and on our website www.kern-sohn.com					

o = Option

• = Standard configuration

KERN Pictograms:



360° rotatable microscope head



Monocular Microscope For the inspection with one eye



Binocular Microscope For the inspection with both eyes

Trinocular Microscope



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ABBE

the additional option for the connection of a camera Abbe Condenser With high numerical aperture for the

For the inspection with both eyes and



Halogen illumination For pictures bright and rich in contrast

concentration and the focusing of light



LED illumination Cold, energy saving and especially long-life illumination



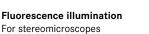
Incident illumination For non-transparent objects



Transmitting illumination For transparent objects



Fluorescence illumination





For direct transmitting of the picture to a PC



Automatic temperature compesation For measurements between 10 °C and 30 °C



Protection against dust and water splashes IPxx The type of protection is shown by the pictogram.



Battery operation

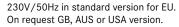
Ready for battery operation. The battery type is specified for each device.



Rechargeable battery pack Rechargeable set.



Mains adapter





Power supply Integrated in balance. 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.



DAYS

Warranty

The warranty period is shown in the pictogram.





Abbreviations

C-Mount	Adapter for the connection of a camera to a trinocular microscope
H(S)WF	High (Super) Wide Field (Eyepiece with high eye point for wearers of glasses)
LWD	Long Working Distance

Your KERN specialist dealer:

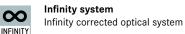
N.A.	Numerical Aperture	W.D.	Working Distance
SLR Kamera Single-Lens Reflex camera		WF	Wide Field (Field number up to Ø 22 mm for 10x eyepiece)
SWF	Super Wide Field (Field number at least Ø23 mm for 10x eyepiece)		



Polarising unit

Phase contrast unit

For a higher contrast



Fluorescence illumination

for compound microscopes

Fluorescence illumination

for compound microscopes

With 100W mercury lamp and filter

With 3W LED illumination and filter



FL-HBO

C

FL-LED

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POLAR

Zoom magnification For stereomicroscopes



Parallel optical system For stereomicroscopes, enables fatigue-proof working

Integrated scale Lunn In the eyepiece SCALE





For direct transmitting of the picture to a PC



Integrated USB 3.0 digital camera