



Professional Line

Professional stereo zoom microscope with parallel optics for excellent images, depth of field, contrast and fatigue-free working

Features

- The KERN OZS series is a special, high-quality stereo zoom microscope with parallel optics 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
- The parallel optical system is a high-quality optical system and provides excellent images with the best contrast, colour and depth of field with fatigue-free working. Refocusing is also only necessary in very few cases when magnifying the zoom
- The continuously adjustable magnification range from 8 to 50 times magnification means that you can work quickly and effectively
- As standard this microscope offers you continuous total magnification of 8× - 80×
- 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 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 100:0
- 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
KERN						
OZS 574	Trinocular	HWF 10×/φ 22 mm	φ 27,5–2,75	0,8×–8×	Pillar style	3 W LED (incident); 3 W LED (transmitted)

Eyepiece	Specifications - Objectives				
	Magnification	Standard Plan 1,0×	Achr. objective 0,5×	Achr. objective 0,7×	Achr. objective 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 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
Darkfield unit	Darkfield unit	○	OZB-A4601
Object clamp	Object clamp	○	OBB-A6205
Stand	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
	Clear 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

✓ = Included with delivery

○ = Option