



Lab Line

First-class optics and strong illumination combined with a high level of flexibility

Features

- The KERN OZM series is a range of excellent stereo zoom microscopes with above-average optical features
- The ergonomic shape allows a simple, effortless working over a period of several hours
- The extraordinarily strong and continuously dimmable 3 W LED reflected and transmitted illumination ensures a flexible and particularly good level of illumination for your sample
- With its large working distance, an extra large field of view and its brilliant resolution, the KERN OZM provides sharp, high-contrast, colour-true images
- The zoom objective gives you continuous magnification from 7,5×-45×
- There is a choice of a binocular model as well as a trinocular model 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 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: Greenough optics
- Brightness adjustable (separate)
- Tube 45° inclined
- Magnification ratio: 6,4:1
- Light distribution OZM 543/544: 100:0
- Interpupillary distance 52 - 76 mm
- Diopter adjustment: Both-sided
- Overall dimensions W×D×H 330×285×440 mm
- Net weight approx. 4,5 kg

STANDARD



OPTION



| Model | Standard configuration | | | | | |
|----------------|------------------------|------------------|---------------------|-------------------|--------------|---|
| | Tube | Eyepiece | Field of view mm | Objective Zoom | Stand | Illumination |
| KERN | | | | | | |
| OZM 542 | Binocular | HSWF 10×/ø 23 mm | ø 32,8 - 5,1 | 0,7× - 4,5× | Pillar style | 3 W LED (incident); 3 W LED (transmitted) |
| OZM 544 | Trinocular | HSWF 10×/ø 23 mm | ø 32,8 - 5,1 | 0,7× - 4,5× | Pillar style | 3 W LED (incident); 3 W LED (transmitted) |

Stereo Zoom Microscope KERN OZM-5

| Eyepiece | Specifications - Objectives | | | | | |
|------------------------------|-----------------------------|------------------|----------------------|---------------|----------------|--------------|
| | Magnification | Standard 1,0× | Auxiliary objectives | | | |
| | | | 0,5× | 0,7× | 1,5× | 2× |
| HSWF 10× | Total magnification | 7× - 45× | 3,5× - 22,5× | 4,9× - 31,5× | 10,5× - 67,5× | 14× - 90× |
| | Field of view mm | ∅ 32,8 - 5,1 | ∅ 65,7 - 10,2 | ∅ 46,9 - 7,3 | ∅ 21,9 - 3,4 | ∅ 16,4 - 2,6 |
| SWF 15× | Total magnification | 10,5× - 67,5× | 5,3× - 33,8× | 7,4× - 47,2× | 15,8× - 101,3× | 21× - 135× |
| | Field of view mm | ∅ 24,3 - 3,8 | ∅ 48,6 - 7,6 | ∅ 34,7 - 5,4 | ∅ 16,2 - 2,5 | ∅ 12,1 - 1,9 |
| SWF 20× | Total magnification | 14× - 90× | 7× - 45× | 9,8× - 63× | 21× - 135× | 28× - 180× |
| | Field of view mm | ∅ 20 - 3,1 | ∅ 40 - 6,2 | ∅ 28,6 - 4,4 | ∅ 13,3 - 2,1 | ∅ 10 - 1,6 |
| SWF 30× | Total magnification | 21× - 135× | 10,5× - 67,5× | 14,7× - 94,5× | 31,5× - 202,5× | 42× - 270× |
| | Field of view mm | ∅ 12,9 - 2 | ∅ 25,7 - 4 | ∅ 18,4 - 2,9 | ∅ 8,6 - 1,6 | ∅ 6,4 - 1 |
| Working distance | | 110 mm | 195 mm | 145 mm | 58 mm | 35 mm |
| Maximum sample height | | 130 mm | 30 mm | 65 mm | 160 mm | 175 mm |

| Model outfit | Model KERN | | Order number | |
|--|---|------------|--------------|-----------|
| | OZM 542 | OZM 544 | | |
| 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 | 0,5× | ○ | ○ | 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 |
| Darkfield unit | Darkfield unit | ○ | ○ | OZB-A4601 |
| Object clamp | Object clamp | ○ | ○ | OBB-A6205 |
| | Pillar style, without illumination | | | |
| Stand | Pillar style, with 3 W LED illumination (transmitted + incident) | ✓ | ✓ | |
| | Please find more stands on our website www.kern-sohn.com | | | |
| 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 transmitted and incident illumination | ○ | ○ | OZB-A5781 |
| | Stage size W×D 180×175 mm, Travel 100×86 mm, for incident illumination only | ○ | ○ | OZB-A5782 |

✓ = Included with delivery

○ = Option