



Lab Line

Professional and powerful – thanks to its extremely large magnification range, strong illumination and first-class optics

Features

- The KERN OZP stereo zoom microscope stands out through its above-average magnification range and its robust shape which is also ergonomic, it enables effortless, simple working over a period of several hours
- The KERN OZP series is available as a strong, continuously adjustable 3 W LED reflected and transmitted light variant for the very best illumination of your sample
- With its large working distance, an extra large field of view and brilliant resolution, the KERN OZP provides sharp, high-contrast and colour-true images
- As standard this microscope offers you continuous total magnification of 6× - 55×
- 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

- Zoology and botany, quality control, electronics and semiconductor industry, assembly and repair

Applications/Samples

- Samples with focus on three-dimesnional impression, zoom with variable magnification (depth, thickness), e.g. insects, seeds, circuit boards, components

Technical data

- Optical system: Greenough optics
- Brightness adjustable (separate)
- Tube: 35° inclined
- Magnification ratio: 9,2:1
- Light distribution OZP 557/558: 100:0
- Interpupillary distance 52 – 76 mm
- Diopter adjustment: Both-sided
- Overall dimensions W×D×H 330×285×470 mm
- Net weight approx. 4,5 kg

STANDARD

360°

BINO

TRINO

LED

IL

TL

ZOOM

230 V

1 DAY

OPTION

SCALE

| Model | Standard configuration | | | | | |
|---------|------------------------|------------------|---------------------|-------------------|--------------|---|
| | Tube | Eyepiece | Field of view mm | Objective Zoom | Stand | Illumination |
| KERN | | | | | | |
| OZP 556 | Binocular | HSWF 10×/ø 23 mm | ø 38,3 – 4,2 | 0,6× – 5,5× | Pillar style | 3 W LED (incident); 3 W LED (transmitted) |
| OZP 558 | Trinocular | HSWF 10×/ø 23 mm | ø 38,3 – 4,2 | 0,6× – 5,5× | Pillar style | 3 W LED (incident); 3 W LED (transmitted) |

| Eyepiece | Specifications – Objectives | | | | | |
|------------------------------|-----------------------------|------------------|----------------------|----------------|-----------------|--------------|
| | Magnification | Standard 1,0× | Auxiliary objectives | | | |
| | | | 0,5× | 0,7× | 1,5× | 2× |
| HSWF 10× | Total magnification | 6× – 55× | 3× – 27,5× | 4,2× – 38,5× | 9× – 82,5× | 12× – 110× |
| | Field of view mm | ∅ 38,3 – 4,2 | ∅ 76,7 – 8,4 | ∅ 54,8 – 6 | ∅ 25,6 – 2,8 | ∅ 19,2 – 2,1 |
| SWF 15× | Total magnification | 9× – 82,5× | 4,5× – 41,25× | 6,3× – 57,75× | 13,5× – 123,75× | 18× – 165× |
| | Field of view mm | ∅ 28,3 – 3,1 | ∅ 56,7 – 6,2 | ∅ 40,5 – 4,4 | ∅ 18,9 – 2,1 | ∅ 14,2 – 1,5 |
| SWF 20× | Total magnification | 12× – 110× | 6× – 55× | 8,4× – 77× | 18× – 165× | 24× – 220× |
| | Field of view mm | ∅ 23,3 – 2,5 | ∅ 46,7 – 5,1 | ∅ 33,3 – 3,6 | ∅ 15,6 – 1,7 | ∅ 11,7 – 1,3 |
| SWF 30× | Total magnification | 18× – 165× | 9× – 82,5× | 12,6× – 115,5× | 27× – 247,5× | 36× – 330× |
| | Field of view mm | ∅ 15 – 1,6 | ∅ 30 – 3,3 | ∅ 21,4 – 2,3 | ∅ 10 – 1,1 | ∅ 7,5 – 0,8 |
| Working distance | | 108 mm | 195 mm | 145 mm | 58 mm | 35 mm |
| Maximum sample height | | 110 mm | 10 mm | 45 mm | 140 mm | 150 mm |

| Model outfit | | Model KERN | | Order number |
|--|---|------------|------------|--------------|
| | | OZP 556 | OZP 558 | |
| 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 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