



OZR 564



OZR 563

PROFESSIONAL LINE

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

Features

- The KERN OZR series is a special, high-quality stereo zoom microscope with parallel optics for demanding analyses.
- The KERN OZR series is available as a strong, continuously adjustable 3 W LED reflected and transmitted light variant for the very best illumination of your sample or as a variant without illumination.
- 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, the models of the KERN OZR series are trinocular and are therefore equipped 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 charts.

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: 6,25:1
- 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

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 |
| KERN | | | | | | |
| OZR 563 | Trinocular | HWF 10×/ø 22 mm | ø 27,5 – 4,4 | 0,8× – 5× | Pillar style | – |
| OZR 564 | Trinocular | HWF 10×/ø 22 mm | ø 27,5 – 4,4 | 0,8× – 5× | Pillar style | 3 W LED (incident); 3 W LED (transmitted) |

| Eyepiece | Specifications - Objectives | | | | |
|------------------|-----------------------------|-----------------------|-------------------------|----------------|------------------|
| | Magnification | Standard Plan 1,0× | Achromatische Objektive | | |
| | | | 0,5× | 0,7× | 1,5× (Auxiliary) |
| HWF 10× | Total magnification | 8× - 50× | 4× - 25× | 5,6× - 35× | 12× - 75× |
| | Field of view mm | ∅ 27,5 - 4,4 | ∅ 55 - 8,8 | ∅ 39,3 - 6,3 | ∅ 18,33 - 2,93 |
| SWF 15× | Total magnification | 12× - 75× | 6× - 37,5× | 8,4× - 5,5× | 18× - 112,5× |
| | Field of view mm | ∅ 21,25 - 3,4 | ∅ 42,5 - 6,8 | ∅ 30,36 - 4,86 | ∅ 14,17 - 2,27 |
| SWF 20× | Total magnification | 16× - 100× | 8× - 50× | 11,2× - 70× | 24× - 150× |
| | Field of view mm | ∅ 17,5 - 2,8 | ∅ 35 - 5,6 | ∅ 25 - 4 | ∅ 11,67 - 1,87 |
| SWF 30× | Total magnification | 24× - 150× | 12× - 75× | 16,8× - 105× | 36× - 225× |
| | Field of view mm | ∅ 11,25 - 1,8 | ∅ 22,5 - 3,6 | ∅ 16,1 - 2,57 | ∅ 7,5 - 1,2 |
| Working distance | | 91 mm | 186 mm | 135 mm | 40 mm |

| Model outfit | | Model KERN | | Order number | |
|---|---|------------|---------|--------------|--|
| | | OZR 563 | OZR 564 | | |
| 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 | |
| | for SLR cameras (Nikon) | ○ | ○ | OZB-A5706 | |
| | for SLR cameras (Olympus) | ○ | ○ | OZB-A5707 | |
| | for SLR cameras (Canon) | ○ | ○ | OZB-A5708 | |
| Darkfield unit | Darkfield unit | ○ | ○ | OZB-A4601 | |
| Object clamp | Object clamp | ○ | ○ | OBB-A6205 | |
| Stand | Pillar style, without illumination | ✓ | | | |
| | 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 | |
| | 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 | |
| External illumination | Please find the information about external illumination units in the catalogue from page 81 and on our website www.kern-sohn.com | | | | |

✓ = Included with delivery

○ = Option

| | | | | | |
|--|--|--|---|--|---|
|  360° | 360° rotatable microscope head |  FL-LED | Fluorescence illumination for compound microscopes With 3 W LED illumination and filter |  SD | SD card For data storage |
|  MONO | Monocular Microscope For the inspection with one eye |  PH | Phase contrast unit For a higher contrast |  SOFTWARE | PC software To transfer the measurements from the device to a PC. |
|  BINO | Binocular Microscope For the inspection with both eyes |  DF | Darkfield condenser/unit For a higher contrast due to indirect illumination |  AUTO ATC | Automatic temperature compensation For measurements between 10 °C and 30 °C |
|  TRINO | Trinocular Microscope For the inspection with both eyes and the additional option for the connection of a camera |  POLAR | Polarising unit To polarise the light |  IP | Protection against dust and water splashes IPxx The type of protection is shown by the pictogram. |
|  ABBE | Abbe Condenser With high numerical aperture for the concentration and the focusing of light |  INFINITY | Infinity system Infinity corrected optical system |  BATT | Battery operation Ready for battery operation. The battery type is specified for each device. |
|  HAL | Halogen illumination For pictures bright and rich in contrast |  ZOOM | Zoom magnification For stereomicroscopes |  RECHARGE | Battery operation rechargeable Prepared for a rechargeable battery operation |
|  LED | LED illumination Cold, energy saving and especially long-life illumination |  PARALLEL | Parallel optical system For stereomicroscopes, enables fatigue-proof working |  230 V | Mains adapter 230V/50Hz in standard version for EU. On request GB, AUS or USA version. |
|  IL | Incident illumination For non-transparent objects |  SCALE | Integrated scale In the eyepiece |  230 V | Power supply Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, AUS or USA on request. |
|  TL | Transmitting illumination For transparent objects |  USB 2.0 | Integrated USB 2.0 digital camera For direct transmitting of the picture to a PC |  1 DAY | Package shipment The time required to manufacture the product internally is shown in days in the pictogram. |
|  FL | Fluorescence illumination For stereomicroscopes |  USB 3.0 | Integrated USB 3.0 digital camera For direct transmitting of the picture to a PC |  3 YEARS WARRANTY | Warranty The warranty period is shown in the pictogram. |
|  FL-HBO | Fluorescence illumination for compound microscopes With 100 W mercury lamp and filter |  HDMI | HDMI digital camera For direct transmitting of the picture to a display device | | |

Abbreviations

| | | | | | |
|----------------|---|-------------------|---------------------------|-------------|---|
| C-Mount | Adapter for the connection of a camera to a trinocular microscope | LWD | Long Working Distance | SWF | Super Wide Field (Field number at least Ø 23 mm for 10x eyepiece) |
| FPS | Frames per second | N.A. | Numerical Aperture | W.D. | Working Distance |
| H(S)WF | High (Super) Wide Field (Eyepiece with high eye point for wearers of glasses) | SLR Kamera | Single-Lens Reflex camera | WF | Wide Field (Field number up to Ø 22 mm for 10x eyepiece) |

Your KERN specialist dealer: