



Head of the microscope series OZL-46 (OZL 461, 462)



Head of the microscope series OZM-5 (OZM 546, 547)



Head of the microscope series OZP-5 (OZP 551, 552)



Head of the microscope series OZO-5 (OZO 556)

Individuality, variety and flexible working through our modular construction system – Stereo microscope heads

Features

- To enable the highest level of flexibility for your special requirements and applications, we have a large selection of stereo microscope heads, universal stands and external illumination units, which are easy to combine
- Through the different properties of the stereo microscope heads, as well as the flexibility of the universal stands and the professional fixing of our brackets, we can configure your ideal microscope to suit your needs

- There are various microscope heads available from our product range for this purpose, both as binocular or trinocular versions
- A C-mount adapter is required to connect a camera to the trinocular version. You can select this adapter from the corresponding model outfit lists on the following pages

Technical data

- Optical system: Greenough optics
- Further technical data and model features is located in the tables below

| Model | Tube | Tube angle | Eyepieces (included) | Interpupillary distance | Objective | Magnification ratio | Diopter adjustment |
|-----------------|------------|------------|----------------------|-------------------------|-------------|---------------------|--------------------|
| KERN | | | | | Zoom | Zoom | |
| OZL 461 | Binocular | 45° | HWF 10×/ø 20 mm | 55–75 mm | 0,7× – 4,5× | 6,4:1 | Both-sided (-5/5) |
| OZL 462 | Trinocular | 45° | HWF 10×/ø 20 mm | 52–76 mm | 0,7× – 4,5× | 6,4:1 | Both-sided (-5/5) |
| OZM 546 | Binocular | 45° | HSWF 10×/ø 23 mm | 52–76 mm | 0,7× – 4,5× | 6,4:1 | Both-sided (-6/6) |
| OZM 547 | Trinocular | 45° | HSWF 10×/ø 23 mm | 52–76 mm | 0,7× – 4,5× | 6,4:1 | Both-sided (-6/6) |
| OZP 551 | Binocular | 35° | HSWF 10×/ø 23 mm | 52–76 mm | 0,6× – 5,5× | 9,2:1 | Both-sided (-6/6) |
| OZP 552 | Trinocular | 35° | HSWF 10×/ø 23 mm | 52–76 mm | 0,6× – 5,5× | 9,2:1 | Both-sided (-6/6) |
| OZO 556* | Binocular | 35° | HSWF 10×/ø 23 mm | 52–76 mm | 0,8× – 7× | 8,8:1 | Both-sided (-6/6) |

! *ONLY WHILE STOCKS LAST

Fittings and accessories for the heads for the OZL-46 microscope range (OZL 461, OZL 462)

| Eyepiece | Specifications - Objectives | | | | | |
|-------------------------|-----------------------------|------------------|----------------------|---------------|----------------|--------------|
| | Magnification | Standard 1,0× | Auxiliary objectives | | | |
| | | | 0,5× | 0,75× | 1,5× | 2,0× |
| HSWF 10× | Total magnification | 7× - 45× | 3,5× - 22,5× | 5,3× - 33,8× | 10,5× - 67,5× | 14× - 90× |
| | Field of view mm | ∅ 28,6 - 4,4 | ∅ 57,1 - 8,9 | ∅ 38,1 - 5,9 | ∅ 19 - 3 | ∅ 14,3 - 2,2 |
| HWF 15× | Total magnification | 10,5× - 67,5× | 5,3× - 33,8× | 7,9× - 50,6× | 15,5× - 101,3× | 21× - 135× |
| | Field of view mm | ∅ 21,4 - 3,3 | ∅ 42,9 - 6,7 | ∅ 28,5 - 4,4 | ∅ 14,3 - 2,2 | ∅ 10,7 - 1,7 |
| HSWF 20× | Total magnification | 14× - 90× | 7× - 45× | 10,5× - 67,5× | 21× - 135× | 28× - 180× |
| | Field of view mm | ∅ 14,3 - 2,2 | ∅ 28,6 - 4,4 | ∅ 19,1 - 2,9 | ∅ 9,5 - 1,5 | ∅ 7,1 - 1,1 |
| HWF 25× | Total magnification | 17,5× - 122,5× | 8,8× - 56,3× | 13,1× - 91,9× | 26,3× - 168,8× | 35× - 225× |
| | Field of view mm | ∅ 12,9 - 2,0 | ∅ 25,7 - 4,0 | ∅ 17,2 - 2,7 | ∅ 8,6 - 1,3 | ∅ 6,4 - 1,0 |
| Working distance | | 105 mm | 177 mm | 120 mm | 47 mm | 26 mm |

| Model outfit | Model KERN | | Order number | |
|------------------------|-------------------------|---------|--------------|-----------|
| | OZL 461 | OZL 462 | | |
| Eyepieces (30,0 mm) | HWF 10×/∅ 20 mm | ✓✓ | ✓✓ | OZB-A4631 |
| | HSWF 15×/∅ 15 mm | ○ | ○ | OZB-A4632 |
| | HWF 20×/∅ 10 mm | ○ | ○ | OZB-A4633 |
| | HSWF 25×/∅ 9 mm | ○ | ○ | OZB-A4634 |
| Auxiliary objectives | 0,5× | ○ | ○ | OZB-A4641 |
| | 0,75× | ○ | ○ | OZB-A4644 |
| | 1,5× | ○ | ○ | OZB-A4642 |
| | 2,0× | ○ | ○ | OZB-A4643 |
| C-Mount | 1× (focus adjustable) | | ✓ | OZB-A4809 |
| | 0,3× (focus adjustable) | | ○ | OZB-A4810 |
| | 0,5× (focus adjustable) | | ○ | OZB-A4811 |

✓ = Included with delivery ○ = Option

Fittings and accessories for the heads for the OZM-5 microscope range (OZM 546, OZM 547)

| Eyepiece | Specifications - Objectives | | | | | | |
|------------------|-----------------------------|------------------|----------------------|---------------|---------------|----------------|--------------|
| | Magnification | Standard 1,0× | Auxiliary objectives | | | | |
| | | | 0,37× | 0,5× | 0,7× | 1,5× | 2× |
| HSWF 10× | Total magnification | 7× - 45× | 2,59× - 16,65× | 3,5× - 22,5× | 4,9× - 31,5× | 10,5× - 67,5× | 14× - 90× |
| | Field of view mm | ∅ 32,8 - 5,1 | ∅ 88,8 - 13,8 | ∅ 65,7 - 10,2 | ∅ 46,9 - 7,3 | ∅ 21,9 - 3,4 | ∅ 16,4 - 2,6 |
| SWF 15× | Total magnification | 10,5× - 67,5× | 3,89× - 25× | 5,3× - 33,8× | 7,4× - 47,2× | 15,8× - 101,3× | 21× - 135× |
| | Field of view mm | ∅ 24,3 - 3,8 | ∅ 65,6 - 10,2 | ∅ 48,6 - 7,6 | ∅ 34,7 - 5,4 | ∅ 16,2 - 2,5 | ∅ 12,1 - 1,9 |
| SWF 20× | Total magnification | 14× - 90× | 5,18× - 33,3× | 7× - 45× | 9,8× - 63× | 21× - 135× | 28× - 180× |
| | Field of view mm | ∅ 20 - 3,1 | ∅ 54,1 - 8,4 | ∅ 40 - 6,2 | ∅ 28,6 - 4,4 | ∅ 13,3 - 2,1 | ∅ 10 - 1,6 |
| SWF 30× | Total magnification | 21× - 135× | 7,77× - 50× | 10,5× - 67,5× | 14,7× - 94,5× | 31,5× - 202,5× | 42× - 270× |
| | Field of view mm | ∅ 12,9 - 2 | ∅ 34,7 - 5,4 | ∅ 25,7 - 4 | ∅ 18,4 - 2,9 | ∅ 8,6 - 1,6 | ∅ 6,4 - 1 |
| Working distance | | 110 mm | 275 mm | 195 mm | 145 mm | 58 mm | 35 mm |

| Model outfit | Model KERN | | Order number | |
|------------------------------------|---|------------|--------------|-----------|
| | OZM 546 | OZM 547 | | |
| 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 | 0,37× only in combination with a universal stand | ○ | ○ | OZB-A5611 |
| | 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 |

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Fittings and accessories for the heads for the OZP-5 microscope range (OZP 551, OZP 552)

| Eyepiece | Specifications - Objectives | | | | | | |
|------------------|-----------------------------|------------------|----------------------|---------------|----------------|-----------------|--------------|
| | Magnification | Standard 1,0× | Auxiliary objectives | | | | |
| | | | 0,37× | 0,5× | 0,7× | 1,5× | 2× |
| HSWF 10× | Total magnification | 6× - 55× | 2,96× - 25,9× | 3× - 27,5× | 4,2× - 38,5× | 9× - 82,5× | 12× - 110× |
| | Field of view mm | ∅ 38,3 - 4,2 | ∅ 74,3 - 8,5 | ∅ 76,7 - 8,4 | ∅ 54,8 - 6 | ∅ 25,6 - 2,8 | ∅ 19,2 - 2,1 |
| SWF 15× | Total magnification | 9× - 82,5× | 4,44× - 38,9× | 4,5× - 41,25× | 6,3× - 57,75× | 13,5× - 123,75× | 18× - 165× |
| | Field of view mm | ∅ 28,3 - 3,1 | ∅ 57,4 - 6,6 | ∅ 56,7 - 6,2 | ∅ 40,5 - 4,4 | ∅ 18,9 - 2,1 | ∅ 14,2 - 1,5 |
| SWF 20× | Total magnification | 12× - 110× | 5,92× - 51,8× | 6× - 55× | 8,4× - 77× | 18× - 165× | 24× - 220× |
| | Field of view mm | ∅ 23,3 - 2,5 | ∅ 47,3 - 5,4 | ∅ 46,7 - 5,1 | ∅ 33,3 - 3,6 | ∅ 15,6 - 1,7 | ∅ 11,7 - 1,3 |
| SWF 30× | Total magnification | 18× - 165× | 8,88× - 77,7× | 9× - 82,5× | 12,6× - 115,5× | 27× - 247,5× | 36× - 330× |
| | Field of view mm | ∅ 15 - 1,6 | ∅ 30,4 - 3,5 | ∅ 30 - 3,3 | ∅ 21,4 - 2,3 | ∅ 10 - 1,1 | ∅ 7,5 - 0,8 |
| Working distance | | 108 mm | 275 mm | 195 mm | 145 mm | 50 mm | 35 mm |

| Model outfit | Model KERN | | Order number | |
|------------------------------------|---|---------|--------------|-----------|
| | OZP 551 | OZP 552 | | |
| 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 | 0,37× only in combination with a universal stand | ○ | ○ | OZB-A5611 |
| | 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 |

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Fittings and accessories for the heads for the OZO-5 microscope range (OZO 556)

| Eyepiece | Specifications - Objectives | | | | | | |
|-------------------------|-----------------------------|------------------|----------------------|--------------|--------------|--------------|---------------|
| | Magnification | Standard 1,0× | Auxiliary objectives | | | | |
| | | | 0,37× | 0,5× | 0,7× | 1,5× | 2× |
| HSWF 10× | Total magnification | 8× - 70× | 2,96× - 25,9× | 4× - 35× | 5,6× - 49× | 12× - 105× | 16× - 140× |
| | Field of view mm | ∅ 28,75 - 3,3 | ∅ 74,3 - 8,5 | ∅ 57,5 - 6,6 | ∅ 41,1 - 4,7 | ∅ 19,2 - 2,2 | ∅ 14,4 - 1,6 |
| SWF 15× | Total magnification | 12× - 105× | 4,44× - 38,9× | 6× - 52,5× | 8,4× - 73,5× | 18× - 157,5× | 24× - 210× |
| | Field of view mm | ∅ 21,25 - 2,4 | ∅ 57,4 - 6,6 | ∅ 42,5 - 4,9 | ∅ 30,4 - 3,5 | ∅ 14,2 - 1,6 | ∅ 10,6 - 1,2 |
| SWF 20× | Total magnification | 16× - 140× | 5,92× - 51,8× | 8× - 70× | 11,2× - 98× | 24× - 210× | 32× - 280× |
| | Field of view mm | ∅ 17,5 - 2 | ∅ 47,3 - 5,4 | ∅ 35 - 4 | ∅ 25 - 2,9 | ∅ 11,7 - 1,3 | ∅ 8,75 - 1 |
| SWF 30× | Total magnification | 24× - 210× | 8,88× - 77,7× | 12× - 105× | 16,8× - 147× | 36× - 315× | 48× - 420× |
| | Field of view mm | ∅ 11,25 - 1,3 | ∅ 30,4 - 3,5 | ∅ 22,5 - 2,6 | ∅ 16,1 - 1,8 | ∅ 7,5 - 0,9 | ∅ 5,625 - 0,6 |
| Working distance | | 108 mm | 275 mm | 195 mm | 145 mm | 50 mm | 35 mm |

| Model outfit | Model KERN | Order number |
|------------------------------------|---|--------------|
| | OZO 556 | |
| 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 | 0,37× only in combination with a universal stand | ○ OZB-A5611 |
| | 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 |

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