



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 on the following pages

Model	Tube	Tube angle	Eyepieces (included)	Interpupillary distance	Objective	Magnification ratio	Diopter adjustment
KERN					Zoom	Zoom	
OZL 461	Binocular	45°	HWF 10x/ø 20 mm	55 – 75 mm	0,7x – 4,5x	6,4:1	Both-sided (-5/5)
OZL 462	Trinocular	45°	HWF 10x/ø 20 mm	52 – 76 mm	0,7x – 4,5x	6,4:1	Both-sided (-5/5)
OZM 546	Binocular	45°	HSWF 10x/ø 23 mm	52 – 76 mm	0,7x – 4,5x	6,4:1	Both-sided (-6/6)
OZM 547	Trinocular	45°	HSWF 10x/ø 23 mm	52 – 76 mm	0,7x – 4,5x	6,4:1	Both-sided (-6/6)
OZP 551	Binocular	35°	HSWF 10x/ø 23 mm	52 – 76 mm	0,6x – 5,5x	9,2:1	Both-sided (-6/6)
OZP 552	Trinocular	35°	HSWF 10x/ø 23 mm	52 – 76 mm	0,6x – 5,5x	9,2:1	Both-sided (-6/6)
OZO 556*	Binocular	35°	HSWF 10x/ø 23 mm	52 – 76 mm	0,8x – 7x	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 1,0x	Auxiliary objectives			
			0,5x	0,75x	1,5x	2,0x
HSWF 10x	Total magnification	7x – 45x	3,5x – 22,5x	5,3x – 33,8x	10,5x – 67,5x	14x – 90x
	Field of view mm	∅ 28,6 – 4,4	∅ 57,1 – 8,9	∅ 38,1 – 5,9	∅ 19 – 3	∅ 14,3 – 2,2
HWF 15x	Total magnification	10,5x – 67,5x	5,3x – 33,8x	7,9x – 50,6x	15,5x – 101,3x	21x – 135x
	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 20x	Total magnification	14x – 90x	7x – 45x	10,5x – 67,5x	21x – 135x	28x – 180x
	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 25x	Total magnification	17,5x – 122,5x	8,8x – 56,3x	13,1x – 91,9x	26,3x – 168,8x	35x – 225x
	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 10x/∅ 20 mm		✓✓	✓✓	OZB-A4631	
	HSWF 15x/∅ 15 mm		○○	○○	OZB-A4632	
	HWF 20x/∅ 10 mm		○○	○○	OZB-A4633	
	HSWF 25x/∅ 9 mm		○○	○○	OZB-A4634	
Auxiliary objectives	0,5x		○	○	OZB-A4641	
	0,75x		○	○	OZB-A4644	
	1,5x		○	○	OZB-A4642	
	2,0x		○	○	OZB-A4643	
C-Mount	1x (focus adjustable)			✓	OZB-A4809	
	0,3x (focus adjustable)			○	OZB-A4810	
	0,5x (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 1,0x	Auxiliary objectives				
			0,37x	0,5x	0,7x	1,5x	2x
HSWF 10x	Total magnification	7x – 45x	2,59x – 16,65x	3,5x – 22,5x	4,9x – 31,5x	10,5x – 67,5x	14x – 90x
	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 15x	Total magnification	10,5x – 67,5x	3,89x – 25x	5,3x – 33,8x	7,4x – 47,2x	15,8x – 101,3x	21x – 135x
	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 20x	Total magnification	14x – 90x	5,18x – 33,3x	7x – 45x	9,8x – 63x	21x – 135x	28x – 180x
	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 30x	Total magnification	21x – 135x	7,77x – 50x	10,5x – 67,5x	14,7x – 94,5x	31,5x – 202,5x	42x – 270x
	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 10x/∅ 23 mm	✓✓	✓✓	OZB-A5503
	SWF 15x/∅ 17 mm	○○	○○	OZB-A5504
	SWF 20x/∅ 14 mm	○○	○○	OZB-A5505
	SWF 30x/∅ 9 mm	○○	○○	OZB-A5506
	HSWF 10x/∅ 23 mm (reticule 0,1 mm)	○	○	OZB-A5512
	SWF 15x/∅ 17 mm (reticule 0,05 mm)	○	○	OZB-A5513
	SWF 20x/∅ 14 mm (reticule 0,05 mm)	○	○	OZB-A5514
Achromatic auxiliary objectives	0,37x only in combination with a universal stand	○	○	OZB-A5611
	0,5x	○	○	OZB-A5612
	0,7x	○	○	OZB-A5613
	1,5x	○	○	OZB-A5615
	2,0x	○	○	OZB-A5616
	Soldering protection lens	○	○	OZB-A5614
C-Mount	0,3x (focus adjustable)		○	OZB-A5701
	0,5x (focus adjustable)		○	OZB-A5702
	1,0x (focus adjustable)		○	OZB-A5703
	1,0x (with micrometer) only in combination with OZB-A5703		○	OZB-A5704

✓ = Included with delivery

○ = Option

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

Eyepiece	Specifications – Objectives						
	Magnification	Standard 1,0x	Auxiliary objectives				
			0,37x	0,5x	0,7x	1,5x	2x
HSWF 10x	Total magnification	6x – 55x	2,96x – 25,9x	3x – 27,5x	4,2x – 38,5x	9x – 82,5x	12x – 110x
	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 15x	Total magnification	9x – 82,5x	4,44x – 38,9x	4,5x – 41,25x	6,3x – 57,75x	13,5x – 123,75x	18x – 165x
	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 20x	Total magnification	12x – 110x	5,92x – 51,8x	6x – 55x	8,4x – 77x	18x – 165x	24x – 220x
	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 30x	Total magnification	18x – 165x	8,88x – 77,7x	9x – 82,5x	12,6x – 115,5x	27x – 247,5x	36x – 330x
	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 10x/∅ 23 mm		✓✓	✓✓	OZB-A5503		
	SWF 15x/∅ 17 mm		○○	○○	OZB-A5504		
	SWF 20x/∅ 14 mm		○○	○○	OZB-A5505		
	SWF 30x/∅ 9 mm		○○	○○	OZB-A5506		
	HSWF 10x/∅ 23 mm (reticule 0,1 mm)		○	○	OZB-A5512		
	SWF 15x/∅ 17 mm (reticule 0,05 mm)		○	○	OZB-A5513		
	SWF 20x/∅ 14 mm (reticule 0,05 mm)		○	○	OZB-A5514		
Achromatic auxiliary objectives	0,37x only in combination with a universal stand		○	○	OZB-A5611		
	0,5x		○	○	OZB-A5612		
	0,7x		○	○	OZB-A5613		
	1,5x		○	○	OZB-A5615		
	2,0x		○	○	OZB-A5616		
	Soldering protection lens		○	○	OZB-A5614		
C-Mount	0,3x (focus adjustable)				○	OZB-A5701	
	0,5x (focus adjustable)				○	OZB-A5702	
	1,0x (focus adjustable)				○	OZB-A5703	
	1,0x (with micrometer) only in combination with OZB-A5703				○	OZB-A5704	
				✓ = Included with delivery			
				○ = Option			

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

Eyepiece	Specifications – Objectives						
	Magnification	Standard 1,0x	Auxiliary objectives				
			0,37x	0,5x	0,7x	1,5x	2x
HSWF 10x	Total magnification	8x – 70x	2,96x – 25,9x	4x – 35x	5,6x – 49x	12x – 105x	16x – 140x
	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 15x	Total magnification	12x – 105x	4,44x – 38,9x	6x – 52,5x	8,4x – 73,5x	18x – 157,5x	24x – 210x
	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 20x	Total magnification	16x – 140x	5,92x – 51,8x	8x – 70x	11,2x – 98x	24x – 210x	32x – 280x
	Field of view mm	∅ 17,5 – 2	∅ 47,3 – 5,4	∅ 35 – 4	∅ 25 – 2,9	∅ 11,7 – 1,3	∅ 8,75 – 1
SWF 30x	Total magnification	24x – 210x	8,88x – 77,7x	12x – 105x	16,8x – 147x	36x – 315x	48x – 420x
	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 10x/∅ 23 mm	✓✓	OZB-A5503
	SWF 15x/∅ 17 mm	○○	OZB-A5504
	SWF 20x/∅ 14 mm	○○	OZB-A5505
	SWF 30x/∅ 9 mm	○○	OZB-A5506
	HSWF 10x/∅ 23 mm (reticule 0,1 mm)	○	OZB-A5512
	SWF 15x/∅ 17 mm (reticule 0,05 mm)	○	OZB-A5513
	SWF 20x/∅ 14 mm (reticule 0,05 mm)	○	OZB-A5514
Achromatic auxiliary objectives	0,37x only in combination with a universal stand	○	OZB-A5611
	0,5x	○	OZB-A5612
	0,7x	○	OZB-A5613
	1,5x	○	OZB-A5615
	2,0x	○	OZB-A5616
	Soldering protection lens	○	OZB-A5614
C-Mount	0,3x (focus adjustable)		OZB-A5701
	0,5x (focus adjustable)		OZB-A5702
	1,0x (focus adjustable)		OZB-A5703
	1,0x (with micrometer) only in combination with OZB-A5703		OZB-A5704

✓ = Included with delivery

○ = Option