



OZL 464
with standard stand



OZL 465
with ring illumination



OZL 467
with handle

Lab Line

The flexible, affordable all-rounder with zoom function for schools, training companies, inspection authorities and laboratories

Features

- The products in the KERN OZL-46 series are stereo zoom microscopes, which will impress you with their easy handling, flexibility as well as their stability and economical price.
- The LED incident and transmitted illumination included as standard guarantees the very best illumination of your sample
- The highlight of the KERN OZL 465/OZL 466 is the strong, continuously dimmable, integrated LED ring illumination in the objective housing, which ensures uniform, shadow-free illumination. An LED transmitted light variant is also included
- As well as excellent optical characteristics and their large working surface, these models offer the highest level of comfort in this class – ideal for training companies, workshops as well as assembly and repair workstations, e.g. in the electronics industry.
- As standard this microscope offers you continuous total magnification of 7x – 45x

- The KERN OZL-46 series is available as a binocular or trinocular version.
- The pillar stand offers you the highest level of flexibility and the freedom to remove the microscope head and to integrate it into other modular systems, for example into a universal stand
- With its integrated handle as well as its stable mechanical stand, the KERN OZL 467/OZL 468 has been specially developed for schools and workshops
- A large selection of eyepieces, external illumination units as well as auxiliary objectives 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

Applications/Samples

- Samples with focus on three-dimensional impression (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
- OZL 464/466/468: Beam path distribution: 0:100
- Interpupillary distance: 55 mm – 75 mm
- Diopter adjustment, both-sided
- Overall dimensions W×D×H 300×240×420 mm
- Net weight approx. 4,2 kg

STANDARD



Model	Tube	Eyepiece	Field of view	Objective Zoom	Stand	Illumination
KERN						
OZL 463	Binocular	HWF 10x/Ø 20 mm	Ø 28,6 – 4,4 mm	0,7x – 4,5x	pillar	3 W LED (incident + transmitted)
OZL 464	Trinocular	HWF 10x/Ø 20 mm	Ø 28,6 – 4,4 mm	0,7x – 4,5x	pillar	3 W LED (incident + transmitted)
OZL 465	Binocular	HWF 10x/Ø 20 mm	Ø 28,6 – 4,4 mm	0,7x – 4,5x	pillar	3 W LED (incident + transmitted)
OZL 466	Trinocular	HWF 10x/Ø 20 mm	Ø 28,6 – 4,4 mm	0,7x – 4,5x	pillar	3 W LED (incident + transmitted)
OZL 467	Binocular	HWF 10x/Ø 20 mm	Ø 28,6 – 4,4 mm	0,7x – 4,5x	mechanical	3 W LED (incident + transmitted)
OZL 468	Trinocular	HWF 10x/Ø 20 mm	Ø 28,6 – 4,4 mm	0,7x – 4,5x	mechanical	3 W LED (incident + transmitted)

Stereo Zoom Microscope KERN OZL-46

Eyepiece	Specifications - Objectives					
	Magnification	Standard	Auxiliary objectives			
			1,0x	0,5x	0,75x	1,5x
HSWF 10x	Total magnification	7x - 45x	3,5x - 22,5x	5,3x - 33,8x	10,5x - 67,5x	14x - 90x
	Field of view mm	Ø 28,6 - 4,4	Ø 57,1 - 8,9	Ø 38,1 - 5,9	Ø 19 - 3	Ø 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	Ø 21,4 - 3,3	Ø 42,9 - 6,7	Ø 28,5 - 4,4	Ø 14,3 - 2,2	Ø 10,7 - 1,7
HSWF 20x	Total magnification	14x - 90x	7x - 45x	10,5x - 67,5x	21x - 135x	28x - 180x
	Field of view mm	Ø 14,3 - 2,2	Ø 28,6 - 4,4	Ø 19,1 - 2,9	Ø 9,5 - 1,5	Ø 7,1 - 1,1
HWF 25x	Total magnification	17,5x - 112,5x	8,8x - 56,3x	13,1x - 91,9x	26,3x - 168,8x	35x - 225x
	Field of view mm	Ø 12,9 - 2,0	Ø 25,7 - 4,0	Ø 17,2 - 2,7	Ø 8,6 - 1,3	Ø 6,4 - 1,0
Working distance		105 mm	177 mm	120 mm	47 mm	26 mm
Maximum sample height		140 mm	35 mm	80 mm	165 mm	185 mm

Model outfit	Model KERN						Order number	
	OZL 463	OZL 464	OZL 465	OZL 466	OZL 467	OZL 468		
Eyepieces (30 mm)	HWF 10x/Ø 20 mm	✓	✓	✓	✓	✓	✓	OZB-A4631
	HWF 15x/Ø 15 mm	○	○	○	○	○	○	OZB-A4632
	HWF 20x/Ø 10 mm	○	○	○	○	○	○	OZB-A4633
	HWF 25x/Ø 10 mm	○	○	○	○	○	○	OZB-A4634
Auxiliary objectives	0,5x	○	○			○	○	OZB-A4641
	1,5x	○	○			○	○	OZB-A4642
	2x	○	○			○	○	OZB-A4643
	0,75x	○	○			○	○	OZB-A4644
	Soldering protection lens	○	○			○	○	OZB-A4646
C-Mount	1x (focus adjustable)		✓		✓		✓	OZB-A4809
	0,3x (focus adjustable)		○		○		○	OZB-A4810
	0,5x (focus adjustable)		○		○		○	OZB-A4811
Eyepiece camera adapter	1,0x; for fitting an eyepiece camera to the trinocular connection of the microscope		○		○		○	OZB-A4863
Stand	Pillar, with 3 W LED illumination (transmitted + incident)	✓	✓					
	Pillar, with 3 W LED illumination (transmitted)			✓	✓			
	mechanical, incl. handle with 3 W LED illumination (transmitted + incident)					✓	✓	
Ring illumination	Integrated into the microscope head as incident illumination			✓	✓			
Stand insert	Frosted glass/Ø 95 mm	✓	✓	✓	✓	✓	✓	OZB-A4670
	Black-white/Ø 95 mm	✓	✓	✓	✓	✓	✓	OZB-A4806

✓ = included with the delivery

○ = Option

Further accessories and spare parts
see *internet*