



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 quality, easy handling, flexibility as well as their stability and economical price
- The LED reflected and transmitted illumination included as standard guarantees the very best illumination of your sample
- The highlight of the 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 7×–45×
- 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 arm curved 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, zoom with variable magnification (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
- Light distribution OZL 464/466/468: 100:0
- Interpupillary distance 55 – 75 mm
- Diopter adjustment: Both-sided
- Overall dimensions W×D×H 300×240×420 mm
- Net weight approx. 4 kg

#### STANDARD



Model	Standard configuration					
	Tube	Eyepiece	Field of view mm	Objective Zoom	Stand	Illumination
<b>KERN</b>						
<b>OZL 463</b>	Binocular	HWF 10×/ø 20 mm	ø 28,6 – 4,4	0,7× – 4,5×	Pillar style	3 W LED (incident); 3 W LED (transmitted)
<b>OZL 464</b>	Trinocular	HWF 10×/ø 20 mm	ø 28,6 – 4,4	0,7× – 4,5×	Pillar style	3 W LED (incident); 3 W LED (transmitted)
<b>OZL 465</b>	Binocular	HWF 10×/ø 20 mm	ø 28,6 – 4,4	0,7× – 4,5×	Pillar style	3 W LED (incident); 3 W LED (transmitted)
<b>OZL 466</b>	Trinocular	HWF 10×/ø 20 mm	ø 28,6 – 4,4	0,7× – 4,5×	Pillar style	3 W LED (incident); 3 W LED (transmitted)
<b>OZL 467</b>	Binocular	HWF 10×/ø 20 mm	ø 28,6 – 4,4	0,7× – 4,5×	Arm curved	3 W LED (incident); 3 W LED (transmitted)
<b>OZL 468</b>	Trinocular	HWF 10×/ø 20 mm	ø 28,6 – 4,4	0,7× – 4,5×	Arm curved	3 W LED (incident); 3 W LED (transmitted)

Eyepiece	Magnification	Specifications – Objectives					
		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× – 112,5×	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	
<b>Working distance</b>		105 mm	177 mm	120 mm	47 mm	26 mm	
<b>Maximum sample height</b>		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 (30,0 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
	Soldering protection lens	○	○		○	○	OZB-A4646
C-Mount	1× (focus adjustable)		✓		✓	✓	OZB-A4809
	0,3× (focus adjustable)		○		○	○	OZB-A4810
	0,5× (focus adjustable)		○		○	○	OZB-A4811
Eyepiece camera adapter	1,0×; for fitting an eyepiece camera to the trinocular connection of the microscope		○		○	○	OZB-A4863
Stand	Pillar style, with 3 W-LED illumination (transmitted + incident)	✓	✓				
	Pillar style, with 3 W-LED illumination (transmitted)			✓	✓		
	Arm curved, incl. handle, with 3 W-LED illumination (transmitted + incident)					✓	✓
Ring illumination	Integrated into the microscope head as incident illumination			✓	✓		
Stage plate	Frosted glass/∅ 95 mm	✓	✓	✓	✓	✓	OZB-A4670
	Black-white/∅ 95 mm	✓	✓	✓	✓	✓	OZB-A4806
External illumination	Please find the information about external illumination units in the catalogue on page 83 and on the internet						

✓ = Included with delivery

○ = Option