

Lab Line

The affordable and flexible stereo zoom microscope for laboratories, inspection authorities and quality controls

Features

- The KERN OZL-44 is a stereo zoom microscope, which will impress you with the easy handling, flexibility as well as the stability and economical price
- The LED incident and transmitted illumination included as standard guarantees the very best illumination of your sample
- 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 7,5x – 36x
- The OZL-44 series is available as a binocular version. The eyepieces are fixed in the eyepiece tube, to stop them getting damaged or lost.
- 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
- 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
- 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-dimesnional impression (depth, thickness), e.g. insects, seeds, circuit boards, components

Technical data

- Optical system: Greenough optics
- Brightness adjustable (separate)
- Tube 45° inclined
- Magnification ratio 4,8:1
- Interpupillary distance: 55 mm – 75 mm
- Diopter adjustment, both-sided
- Overall dimensions W×D×H 230×235×360 mm
- Net weight approx. 4,4 kg

STANDARD



Model	Tube	Eyepiece	Field of view	Objective Zoom	Stand	Illumination
KERN						
OZL 445	Binocular	WF 10x/Ø 20 mm	Ø 28 – 6 mm	0,75x - 3,6x	pillar	1 W LED (incident), 0,35 W LED (transmitted)

Eyepiece	Specifications – Objectives					
	Magnification	**Standard**	**Auxiliary objectives**			
		1,0x	**0,5x**	**0,75x**	**1,5x**	**2,0x**
WF 5x	Total magnification	3,75x – 18x	1,875x – 9x	2,81x – 13,5x	5,625x – 27x	7,5x – 36x
	Field of view mm	Ø 26 – 6	Ø 60 – 13	Ø 32 – 7	Ø 16 – 4	Ø 12,5 – 3
WF 10x	Total magnification	7,5x – 36x	3,75x – 18x	5,625x – 27x	11,25x – 54x	15x – 72x
	Field of view mm	Ø 26,7 – 5,6	Ø 53,3 – 11,1	Ø 35,5 – 7,4	Ø 17,8 – 3,7	Ø 13,3 – 2,8
WF 15x	Total magnification	11,25x – 54x	5,625x – 27x	8,44x – 40,5x	16,875x – 81x	22,5x – 108x
	Field of view mm	Ø 19 – 4,5	Ø 43 – 9,5	Ø 24 – 5,5	Ø 12 – 3	Ø 9,5 – 2
WF 20x	Total magnification	15x – 72x	7,5x – 36x	56,25x – 54x	22,5x – 108x	30x – 144x
	Field of view mm	Ø 12,5 – 3	Ø 28 – 6	Ø 16 – 3,5	Ø 8 – 2	Ø 6 – 1,5
Working distance		86 mm	178 mm	96 mm	42,5 mm	25,5 mm
Maximum sample height		100 mm	10 mm	60 mm	120 mm	135 mm

Model outfit		Model KERN	Order number
		OZL 445	
Eyepieces (30,5 mm)	WF 5x/Ø 16,2 mm	○○	OZB-A4101
	WF 10x/Ø 20 mm	✓✓	OZB-A4102
	WF 15x/Ø 15 mm	○○	OZB-A4103
	WF 20x/Ø 10 mm	○○	OZB-A4104
	WF 10x/Ø 20 mm (with scale 0,1 mm)	○	OZB-A4151
Auxiliary objectives	0,5x	○	OZB-A4201
	0,75x	○	OZB-A4202
	1,5x	○	OZB-A4204
	2x	○	OZB-A4205
	Soldering protection lens	○	OZB-A4251
Stand	Pillar, with LED illumination (0,35 W transmitted + 1 W incident)	✓	
Stand insert	Frostet glass/Ø 95 mm	✓	OZB-A4805
	Black-white/Ø 95 mm	✓	OZB-A4806

✓ = included with the delivery ○ = Option

Further accessories and spare parts see *internet*