

Lab Line

Stereo zoom microscope with halogen illumination, for the laboratory, training centres, quality control or agriculture

Features

- The KERN OZL 451 stereo zoom microscope will impress you with its excellent optical characteristics, easy operation and high level of ergonomic working comfort
- The Halogen incident and transmitted illumination included as standard guarantees the very best illumination of your sample
- The high-quality optics, together with a large working surface offers the highest level of comfort for your applications.
- As standard this microscope offers you continuous total magnification of 7,5x – 50x
- 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
- Tube 45° inclined
- Magnification ratio 6,7:1
- Interpupillary distance: 55 mm – 75 mm
- Diopter adjustment, both-sided
- Overall dimensions W×D×H 330×270×460 mm
- Net weight approx. 4,6 kg

STANDARD



Model	Tube	Eyepiece	Field of view	Objective Zoom	Stand	Illumination
KERN						
OZL 451	Binocular	HSWF 10x/Ø 23 mm	Ø 33 – 5 mm	0,75x - 5x	pillar	10 W Halogen (incident + transmitted)

Eyepiece	Specifications – Objectives				
	Magnification	**Standard**	**Auxiliary objectives**		
		1,0x	**0,5x**	**0,75x**	**2,0x**
HWF 5x	Total magnification	3,75x – 25x	1,875x – 12,5x	2,813x – 18,75x	7,5x – 50x
	Field of view mm	Ø 31 – 4,6	Ø 61,3 – 9,2	Ø 41,3 – 6,1	Ø 16 – 2,5
HSWF 10x	Total magnification	7,5x – 50x	3,75x – 25x	5,625x – 37,5x	15x – 100x
	Field of view mm	Ø 33 – 5	Ø 65 – 10	Ø 44 – 6,7	Ø 16 – 2,5
HWF 15x	Total magnification	11,25x – 75x	5,625x – 37,5x	8,438x – 56,25x	22,5x – 150x
	Field of view mm	Ø 24 – 4,2	Ø 48 – 8,5	Ø 32 – 5,6	Ø 12 – 2
HSWF 20x	Total magnification	15x – 100x	7,5x – 50x	11,25x – 75x	30x – 200x
	Field of view mm	Ø 20 – 3,5	Ø 40 – 7	Ø 26,7 – 4,7	Ø 10 – 1,8
HWF 25x	Total magnification	18,75x – 125x	9,375x – 62,5x	14,063x – 93,75x	37,5x – 255x
	Field of view mm	Ø 15,8 – 2,4	Ø 31,5 – 4,8	Ø 24,1 – 3,2	Ø 7,9 – 1,2
Working distance		113 mm	177 mm	117 mm	35 mm
Maximum sample height		120 mm	60 mm	90 mm	165 mm

Model outfit		**Model KERN**	**Order number**
		OZL 451	
Eyepieces (30 mm)	HWF 5x/Ø 23,2 mm	○○	OZB-A4112
	HSWF 10x/Ø 23 mm	✓✓	OZB-A4118
	HWF 15x/Ø 15 mm	○○	OZB-A4119
	HSWF 20x/Ø 14,5 mm	○○	OZB-A4120
	HWF 25x/Ø 11,7 mm	○○	OZB-A4121
Auxiliary objectives	0,5x	○	OZB-A4209
	0,75x	○	OZB-A4210
	2x	○	OZB-A4206
Stand	Pillar, with 12 V/10 W Halogen Illumination (transmitted + incident)	✓	
Stand insert	Frostet glass/Ø 95 mm	✓	OZB-A4805
	Black-white/Ø 95 mm	✓	OZB-A4806
Illumination	10 W spar bulb (transmitted + incident)	✓	OZB-A4804
Mechanical stage (Pre-assembling on request)	Stage size B×T 180×155 mm, Travel 75×55 mm, for transmitted and incident illumination	○	OZB-A4605

✓ = included with the delivery ○ = Option

Further accessories and spare parts see *internet*