



Lab Line

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

Features

- The KERN OZL-45 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 7,5×-50×
- The KERN OZL-45 series is available as a binocular 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
- 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-dimensional impression, zoom with variable magnification (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 – 75 mm
- Diopter adjustment: Both-sided
- Overall dimensions W×D×H 330×270×460 mm
- Net weight approx. 5 kg

STANDARD



Model	Standard configuration					
	Tube	Eyepiece	Field of view mm	Objective Zoom	Stand	Illumination
KERN						
OZL 45 1	Binocular	HSWF 10×/ø 23 mm	ø 33 – 5	0,75× – 5,0×	Pillar style	10 W Halogen (incident) 10 W Halogen (transmitted)

Eyepiece	Specifications - Objectives				
	Magnification	Standard	Auxiliary objectives		
		1,0×	0,5×	0,75×	2,0×
HWF 5×	Total magnification	3,75× - 25×	1,875× - 12,5×	2,813× - 18,75×	7,5× - 50×
	Field of view mm	∅ 31 - 4,6	∅ 61,3 - 9,2	∅ 41,3 - 6,1	∅ 16 - 2,5
HSWF 10×	Total magnification	7,5× - 50×	3,75× - 25×	5,625× - 37,5×	15× - 100×
	Field of view mm	∅ 33 - 5	∅ 65 - 10	∅ 44 - 6,7	∅ 16 - 2,5
HWF 15×	Total magnification	11,25× - 75×	5,625× - 37,5×	8,438× - 56,25×	22,5× - 150×
	Field of view mm	∅ 24 - 4,2	∅ 48 - 8,5	∅ 32 - 5,6	∅ 12 - 2
HSWF 20×	Total magnification	15× - 100×	7,5× - 50×	11,25× - 75×	30× - 200×
	Field of view mm	∅ 20 - 3,5	∅ 40 - 7	∅ 26,7 - 4,7	∅ 10 - 1,8
HWF 25×	Total magnification	18,75× - 125×	9,375× - 62,5×	14,063× - 93,75×	37,5× - 255×
	Field of view mm	∅ 15,8 - 2,4	∅ 31,5 - 4,8	∅ 24,1 - 3,2	∅ 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 45 1	
Eyepieces (30,0 mm)	HWF 5×/∅ 23,2 mm	○ ○ OZB-A4112
	HSWF 10×/∅ 23 mm	✓ ✓ OZB-A4118
	HWF 15×/∅ 15 mm	○ ○ OZB-A4119
	HSWF 20×/∅ 14,5 mm	○ ○ OZB-A4120
	HWF 25×/∅ 11,7 mm	○ ○ OZB-A4121
Auxiliary objectives	0,5×	○ OZB-A4209
	0,75×	○ OZB-A4210
	2,0×	○ OZB-A4206
Stand	Pillar style, with 12 V/10 W Halogen Illumination (transmitted + incident)	✓
Stage plate	Frosted glass/∅ 95 mm	✓ OZB-A4805
	Black-white/∅ 95 mm	✓ OZB-A4806
Illumination	10 W spare bulb (transmitted + incident)	✓ OZB-A4804
Mechanical stage (Pre-assembling on request)	Stage size W×D 180×155 mm, Travel 75×55 mm, for transmitted and incident illumination	○ OZB-A4605

✓ = Included with delivery

○ = Option